Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B156	0.000	NC_ULS-Set B (auto).37	-8.5	-1.7	-3.0	1.9	-5.4	**-1.5**	9.2
B156	0.000	NC_ULS-Set B (auto).10	8.3	0.0	-3.4	-0.3	**9.2**	**1.6**	9.0
B156	4.473	NC_ULS-Set B (auto).10	32.7	0.9	-3.5	0.0	-0.4	1.2	**32.9**
B157	5.526	NC_ULS-Set B (auto).33	**-27.7**	0.2	-3.4	0.0	0.1	-0.1	27.9
B157	7.428	NC_ULS-Set B (auto).38	-0.3	**-11.2**	-3.0	0.0	4.6	-0.3	11.6
B157	7.306-	NC_ULS-Set B (auto).29	-2.0	**11.6**	-3.2	0.0	9.2	-0.4	12.2
B157	7.612	NC_ULS-Set B (auto).4	1.5	0.4	**-5.7**	0.1	-0.2	0.7	5.9
B157	0.000	NC_ULS-Set B (auto).30	-6.1	1.8	**-2.6**	-2.0	-3.1	-0.2	6.9
B157	0.000	NC_ULS-Set B (auto).29	-11.6	1.9	-2.9	**-2.0**	-6.3	-0.4	12.1
B157	0.000	NC_ULS-Set B (auto).38	-5.8	-1.7	-2.8	**1.9**	-3.1	-0.2	6.7
B157	0.000	NC_ULS-Set B (auto).33	-6.3	0.1	-3.2	0.0	**-6.7**	-0.1	7.0
B157	0.000	NC_ULS-Set B (auto).10	11.3	0.0	-3.9	-0.1	**10.2**	0.4	12.0
B157	7.612	NC_ULS-Set B (auto).37	1.1	-11.0	-3.4	-0.1	9.1	**-0.6**	11.5
B157	7.612	NC_ULS-Set B (auto).10	25.7	0.1	-4.4	0.1	-6.1	**1.0**	26.1
B157	4.421	NC_ULS-Set B (auto).10	**38.9**	0.1	-4.2	0.0	-0.1	0.7	**39.1**
B158	5.807	NC_ULS-Set B (auto).17	**-27.8**	-0.2	-4.0	-0.1	0.1	0.8	28.1
B158	4.355	NC_ULS-Set B (auto).26	**35.2**	-0.5	-2.9	0.0	-0.2	-1.0	35.4
B158	6.896	NC_ULS-Set B (auto).38	-2.4	**-11.5**	-2.3	-0.1	4.2	0.9	12.0
B158	7.259	NC_ULS-Set B (auto).29	-1.3	**11.5**	-3.3	-0.1	8.4	1.6	12.0
B158	7.259	NC_ULS-Set B (auto).4	-1.4	0.0	**-4.9**	-0.6	-0.3	0.8	5.1
B158	0.000	NC_ULS-Set B (auto).30	-5.8	1.8	-2.8	**-1.9**	-2.9	0.3	6.7
B158	0.000	NC_ULS-Set B (auto).38	-5.6	-1.7	**-2.1**	**2.2**	-2.9	0.4	6.2
B158	0.000	NC_ULS-Set B (auto).17	-6.0	0.1	-3.8	0.1	**-6.7**	0.4	7.1
B158	0.000	NC_ULS-Set B (auto).10	10.4	-0.1	-3.6	0.2	**9.4**	-1.0	11.0
B158	7.259	NC_ULS-Set B (auto).26	24.8	-0.1	-3.0	-0.3	-5.4	**-1.0**	25.0
B158	7.259	NC_ULS-Set B (auto).23	-1.7	-7.8	-4.0	-0.5	8.3	**1.8**	8.9
B158	4.355	NC_ULS-Set B (auto).10	35.2	-0.6	-3.8	0.0	-0.2	-0.9	**35.4**
B159	6.366	NC_ULS-Set B (auto).17	**-24.2**	-0.4	-2.8	-0.5	0.0	0.6	24.4
B159	6.366	NC_ULS-Set B (auto).38	-1.8	**-11.7**	-1.2	-0.1	3.2	0.4	11.9
B159	6.729	NC_ULS-Set B (auto).30	-0.6	**11.3**	-2.6	-0.2	4.5	0.6	11.6
B159	6.729	NC_ULS-Set B (auto).13	-1.1	10.9	**-3.4**	-0.4	7.7	1.0	11.5
B159	6.729	NC_ULS-Set B (auto).38	-0.6	-11.6	**-1.2**	-0.4	3.2	0.4	11.7
B159	0.000	NC_ULS-Set B (auto).30	-3.8	1.8	-2.4	**-2.0**	-3.6	1.1	4.8
B159	0.000	NC_ULS-Set B (auto).21	-6.5	-1.6	-1.9	**2.4**	-4.9	2.0	7.0
B159	0.000	NC_ULS-Set B (auto).29	-6.6	1.9	-2.5	-2.0	**-6.1**	**2.1**	7.3
B159	0.000	NC_ULS-Set B (auto).10	5.9	-0.1	-2.7	0.3	**8.4**	**-1.9**	6.5
B159	4.189	NC_ULS-Set B (auto).26	**28.1**	-0.6	-2.2	0.0	0.4	-1.3	**28.2**
B160	0.000	NC_ULS-Set B (auto).17	**-24.2**	-3.1	-24.3	-7.9	1.5	1.0	34.4

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B160	3.000	NC_ULS-Set B (auto).25	**23.9**	-3.1	-22.9	-7.7	0.0	-0.8	33.2
B160	3.000	NC_ULS-Set B (auto).21	-0.1	**-24.2**	-19.4	-7.8	0.1	0.0	31.0
B160	3.000	NC_ULS-Set B (auto).30	-0.1	**19.8**	-21.1	-5.0	0.4	0.1	28.9
B160	2.100	NC_ULS-Set B (auto).4	-0.3	-8.5	**-53.3**	-79.4	-0.3	1.4	54.0
B160	1.500-	NC_ULS-Set B (auto).4	-0.3	-8.8	-52.9	**-91.0**	1.7	-0.6	53.7
B160	0.000	NC_ULS-Set B (auto).38	-0.1	-20.6	**-7.5**	**-3.6**	0.2	-0.1	21.9
B160	2.400	NC_ULS-Set B (auto).9	23.8	-3.7	-28.1	-37.5	**-1.0**	0.5	37.0
B160	0.600	NC_ULS-Set B (auto).4	-0.3	-7.2	-50.1	-63.6	**4.1**	**-2.3**	50.6
B160	2.400	NC_ULS-Set B (auto).4	-0.3	-8.0	-53.1	-64.8	-0.8	**1.8**	53.7
B160	1.800	NC_ULS-Set B (auto).4	-0.3	-8.8	-53.3	-88.2	0.5	0.5	**54.0**
B161	0.000	NC_ULS-Set B (auto).17	**-24.2**	-3.6	-27.2	-9.1	0.2	0.8	36.6
B161	3.000	NC_ULS-Set B (auto).25	**23.9**	-3.0	-22.5	-7.6	-0.2	-0.8	32.9
B161	1.500-	NC_ULS-Set B (auto).21	-0.1	**-24.8**	-20.1	-32.6	0.0	0.0	31.9
B161	3.000	NC_ULS-Set B (auto).30	-0.1	**19.8**	-21.1	-5.0	-0.4	-0.1	29.0
B161	1.500-	NC_ULS-Set B (auto).4	-0.3	-9.3	**-55.1**	**-91.9**	0.0	0.0	**55.9**
B161	3.000	NC_ULS-Set B (auto).38	-0.2	-23.6	**-8.2**	**-4.1**	0.0	0.0	25.0
B161	2.400	NC_ULS-Set B (auto).4	-0.2	-8.0	-53.9	-65.2	**-2.1**	**2.1**	54.5
B161	0.600	NC_ULS-Set B (auto).4	-0.3	-8.1	-53.8	-65.2	**2.2**	**-2.1**	54.4
B162	0.000	NC_ULS-Set B (auto).17	**-24.2**	-3.7	-27.7	-9.2	0.0	0.7	36.9
B162	3.000	NC_ULS-Set B (auto).25	**23.9**	-2.5	-20.0	-6.6	-1.3	-1.0	31.2
B162	0.000	NC_ULS-Set B (auto).21	-0.1	**-24.2**	-19.4	-7.8	-0.1	0.0	31.0
B162	0.000	NC_ULS-Set B (auto).30	-0.1	**19.8**	-21.1	-5.0	-0.4	-0.1	29.0
B162	0.900	NC_ULS-Set B (auto).4	-0.2	-8.4	**-53.3**	-79.5	0.4	-1.4	54.0
B162	1.500-	NC_ULS-Set B (auto).4	-0.2	-8.7	-53.0	**-91.0**	-1.6	0.6	53.7
B162	3.000	NC_ULS-Set B (auto).38	-0.2	-20.6	**-7.4**	**-3.6**	-0.2	0.1	21.9
B162	2.400	NC_ULS-Set B (auto).4	-0.2	-7.1	-50.1	-63.7	**-4.1**	**2.4**	50.6
B162	0.600	NC_ULS-Set B (auto).17	-24.2	-3.7	-28.1	-37.5	**1.0**	-0.5	37.3
B162	0.600	NC_ULS-Set B (auto).4	-0.2	-8.0	-53.1	-64.8	0.8	**-1.8**	53.7
B162	1.200	NC_ULS-Set B (auto).4	-0.2	-8.7	-53.3	-88.2	-0.5	-0.5	**54.0**
B163	0.000	NC_ULS-Set B (auto).17	**-24.2**	-3.6	-27.0	-8.9	-0.8	0.6	36.4
B163	3.000	NC_ULS-Set B (auto).25	**23.9**	-0.4	-13.0	-3.7	-2.4	-1.2	27.2
B163	0.000	NC_ULS-Set B (auto).21	-0.2	**-21.1**	-17.6	-7.0	-0.7	0.0	27.5
B163	0.000	NC_ULS-Set B (auto).30	-0.1	**17.3**	-19.0	-4.5	-1.4	-0.3	25.7
B163	0.000	NC_ULS-Set B (auto).4	-0.2	-6.3	**-47.8**	-15.7	-2.8	-0.5	**48.2**
B163	1.500-	NC_ULS-Set B (auto).4	-0.2	-6.1	-43.4	**-86.9**	-5.3	2.4	43.8
B163	3.000	NC_ULS-Set B (auto).38	-0.2	-13.0	**-4.8**	**-1.9**	-0.7	-0.1	13.9
B163	2.400	NC_ULS-Set B (auto).4	-0.2	-3.1	-37.1	-58.3	**-8.1**	3.2	37.2
B163	0.600	NC_ULS-Set B (auto).34	-22.9	-2.1	-16.8	-21.9	**0.1**	-0.1	28.5

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B163	1.200	NC_ULS-Set B (auto).30	-0.2	15.0	-17.8	-24.8	-1.4	**-2.6**	23.2
B163	1.800	NC_ULS-Set B (auto).21	-0.2	-16.3	-15.2	-29.0	-2.5	**4.3**	22.3
B164	3.000	NC_ULS-Set B (auto).17	**-25.4**	-1.1	-35.9	-5.9	2.9	0.9	44.0
B164	0.000	NC_ULS-Set B (auto).25	**25.1**	-0.5	-25.7	-3.7	4.7	-0.1	35.9
B164	3.000	NC_ULS-Set B (auto).37	0.0	**-19.5**	-22.6	-5.4	1.4	0.0	29.8
B164	3.000	NC_ULS-Set B (auto).30	0.0	**18.2**	-24.6	-2.2	2.0	0.3	30.6
B164	3.000	NC_ULS-Set B (auto).4	-0.3	-2.4	**-70.8**	-11.8	5.1	0.5	**70.8**
B164	0.000	NC_ULS-Set B (auto).38	0.0	-12.4	**-8.2**	-2.1	1.8	0.0	14.9
B164	1.500-	NC_ULS-Set B (auto).4	-0.2	-3.3	-62.1	**-83.3**	8.7	-1.4	62.2
B164	0.000	NC_ULS-Set B (auto).30	0.0	12.2	-16.6	**-1.0**	3.8	0.6	20.6
B164	2.700	NC_ULS-Set B (auto).26	23.9	-0.8	-24.8	-13.4	**0.2**	-0.1	34.5
B164	0.600	NC_ULS-Set B (auto).4	-0.2	-1.1	-52.5	-54.8	**12.0**	-2.6	52.5
B164	1.200	NC_ULS-Set B (auto).21	0.1	-15.1	-23.8	-28.4	4.3	**-3.8**	28.2
B164	1.800	NC_ULS-Set B (auto).30	0.0	15.7	-22.5	-22.7	2.1	**2.9**	27.4
B165	3.000	NC_ULS-Set B (auto).17	**-25.5**	-1.4	-40.6	-6.9	0.4	0.6	48.0
B165	0.000	NC_ULS-Set B (auto).25	**25.1**	-1.1	-33.9	-5.7	1.1	-0.6	42.1
B165	3.000	NC_ULS-Set B (auto).38	-0.1	**-22.4**	-15.4	-4.4	0.1	0.0	27.2
B165	3.000	NC_ULS-Set B (auto).30	-0.1	**20.9**	-27.5	-2.6	0.4	0.1	34.5
B165	2.100	NC_ULS-Set B (auto).4	-0.3	-4.1	**-78.9**	-75.3	0.2	1.6	**79.0**
B165	0.000	NC_ULS-Set B (auto).38	-0.1	-19.5	**-13.7**	-3.8	0.8	0.0	23.8
B165	1.500-	NC_ULS-Set B (auto).4	-0.3	-4.5	-78.2	**-86.9**	2.5	-0.3	78.3
B165	0.000	NC_ULS-Set B (auto).30	0.0	18.2	-24.6	**-2.2**	2.0	0.3	30.6
B165	2.400	NC_ULS-Set B (auto).9	25.0	-1.4	-41.8	-35.3	**-1.0**	0.5	48.7
B165	0.300	NC_ULS-Set B (auto).4	-0.3	-2.5	-72.5	-38.7	**5.8**	-1.4	72.5
B165	0.600	NC_ULS-Set B (auto).4	-0.3	-3.1	-74.3	-59.6	5.7	**-2.1**	74.3
B165	2.400	NC_ULS-Set B (auto).4	-0.3	-3.6	-78.9	-60.6	-0.4	**1.9**	78.9
B166	3.000	NC_ULS-Set B (auto).17	**-25.5**	-1.4	-41.4	-7.0	0.0	0.7	48.6
B166	0.000	NC_ULS-Set B (auto).25	**25.0**	-1.2	-34.4	-5.9	-0.1	-0.7	42.5
B166	1.500-	NC_ULS-Set B (auto).38	-0.2	**-22.9**	-15.6	-9.5	0.0	0.0	27.7
B166	3.000	NC_ULS-Set B (auto).30	-0.1	**20.9**	-27.5	**-2.6**	-0.4	-0.1	34.5
B166	3.000	NC_ULS-Set B (auto).38	-0.2	-22.4	**-15.4**	-4.4	-0.1	0.0	27.2
B166	1.500-	NC_ULS-Set B (auto).4	-0.4	-4.8	**-81.3**	**-87.6**	0.0	0.0	**81.4**
B166	2.400	NC_ULS-Set B (auto).4	-0.4	-3.6	-80.0	-60.9	**-2.3**	**2.2**	80.1
B166	0.600	NC_ULS-Set B (auto).4	-0.4	-3.6	-80.0	-60.9	**2.3**	**-2.1**	80.1
B167	3.000	NC_ULS-Set B (auto).17	**-25.6**	-1.3	-40.2	-6.7	-1.5	0.5	47.7
B167	0.000	NC_ULS-Set B (auto).25	**25.0**	-1.1	-33.6	-5.7	-0.3	-0.6	41.9
B167	0.000	NC_ULS-Set B (auto).38	-0.2	**-22.4**	-15.4	-4.4	-0.1	0.0	27.2
B167	0.000	NC_ULS-Set B (auto).30	-0.1	**20.9**	-27.5	-2.6	-0.4	-0.1	34.5

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B167	0.900	NC_ULS-Set B (auto).4	-0.5	-4.0	**-79.0**	-75.3	-0.2	-1.6	**79.1**
B167	3.000	NC_ULS-Set B (auto).38	-0.3	-19.5	**-13.6**	-3.8	-0.8	0.0	23.8
B167	1.500-	NC_ULS-Set B (auto).4	-0.5	-4.4	-78.3	**-86.9**	-2.5	0.3	78.4
B167	3.000	NC_ULS-Set B (auto).30	-0.2	18.2	-24.6	**-2.2**	-1.9	-0.3	30.7
B167	2.700	NC_ULS-Set B (auto).4	-0.5	-2.4	-72.6	-38.7	**-5.8**	1.4	72.6
B167	0.600	NC_ULS-Set B (auto).17	-25.5	-1.4	-41.8	-35.3	**1.0**	-0.5	49.0
B167	0.600	NC_ULS-Set B (auto).4	-0.5	-3.5	-78.9	-60.6	0.4	**-1.9**	79.0
B167	2.400	NC_ULS-Set B (auto).4	-0.5	-3.0	-74.4	-59.6	-5.7	**2.2**	74.4
B168	3.000	NC_ULS-Set B (auto).17	**-25.6**	-0.4	-30.1	-4.3	-5.6	0.0	39.5
B168	0.000	NC_ULS-Set B (auto).25	**24.9**	-0.9	-29.6	-4.9	-2.5	-0.8	38.7
B168	0.000	NC_ULS-Set B (auto).38	-0.3	**-19.5**	-13.6	-3.8	-0.8	0.0	23.8
B168	0.000	NC_ULS-Set B (auto).30	-0.2	**18.2**	-24.6	-2.2	-1.9	-0.3	30.7
B168	0.000	NC_ULS-Set B (auto).4	-0.5	-2.3	**-70.9**	-11.8	-5.1	-0.5	**70.9**
B168	3.000	NC_ULS-Set B (auto).38	-0.3	-12.5	**-8.2**	-2.1	-1.8	0.0	14.9
B168	1.500-	NC_ULS-Set B (auto).4	-0.6	-3.1	-62.2	**-83.3**	-8.7	1.4	62.3
B168	3.000	NC_ULS-Set B (auto).30	-0.2	12.4	-16.7	**-1.0**	-3.8	-0.5	20.8
B168	2.400	NC_ULS-Set B (auto).4	-0.6	-0.9	-52.6	-54.8	**-12.0**	2.6	52.6
B168	0.300	NC_ULS-Set B (auto).34	-24.3	-0.7	-24.8	-13.4	**-0.2**	0.1	34.8
B168	1.200	NC_ULS-Set B (auto).30	-0.2	15.8	-22.6	-22.7	-2.1	**-2.8**	27.5
B168	1.800	NC_ULS-Set B (auto).21	-0.4	-15.0	-23.7	-28.4	-4.3	**3.8**	28.1
B169	3.000	NC_ULS-Set B (auto).17	**-26.6**	-0.1	-47.7	-2.4	-1.9	0.0	54.6
B169	0.000	NC_ULS-Set B (auto).25	**25.8**	-0.1	-40.0	-2.0	-0.4	-0.6	47.6
B169	0.000	NC_ULS-Set B (auto).38	-0.2	**-21.3**	-21.6	-3.2	-0.2	-0.1	30.4
B169	0.900	NC_ULS-Set B (auto).4	-0.6	-1.5	**-93.8**	-67.1	-0.4	-1.4	**93.8**
B169	3.000	NC_ULS-Set B (auto).38	-0.3	-18.5	**-19.1**	-2.8	-1.4	-0.3	26.6
B169	1.500-	NC_ULS-Set B (auto).4	-0.7	-1.8	-92.8	**-78.8**	-3.0	0.5	92.8
B169	0.000	NC_ULS-Set B (auto).30	-0.2	**21.2**	-29.0	**0.7**	-0.4	-0.1	35.9
B169	2.700	NC_ULS-Set B (auto).4	-0.9	0.0	-86.1	-31.0	**-7.1**	0.9	86.1
B169	0.600	NC_ULS-Set B (auto).17	-26.4	-0.2	-49.7	-30.8	**1.1**	-0.5	56.3
B169	0.600	NC_ULS-Set B (auto).4	-0.6	-1.0	-93.7	-52.3	0.2	**-1.8**	93.8
B169	2.100	NC_ULS-Set B (auto).4	-0.8	-1.1	-90.1	-66.8	-5.8	**1.9**	90.1
B170	3.000	NC_ULS-Set B (auto).17	**-26.3**	-0.1	-49.2	-2.5	0.2	0.4	55.8
B170	0.000	NC_ULS-Set B (auto).25	**26.0**	-0.1	-40.9	-2.1	-0.2	-0.5	48.5
B170	1.500-	NC_ULS-Set B (auto).38	-0.1	**-21.8**	-22.0	-8.3	0.0	0.0	30.9
B170	3.000	NC_ULS-Set B (auto).38	-0.2	-21.3	**-21.6**	-3.2	-0.2	-0.1	30.4
B170	1.500-	NC_ULS-Set B (auto).4	-0.3	-2.2	**-96.3**	**-79.1**	0.0	0.1	**96.3**
B170	3.000	NC_ULS-Set B (auto).30	-0.2	**21.2**	-29.0	**0.7**	-0.4	-0.1	35.9
B170	2.400	NC_ULS-Set B (auto).4	-0.4	-1.0	-94.9	-52.4	**-2.4**	**2.1**	94.9

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B170	0.600	NC_ULS-Set B (auto).4	-0.1	-1.0	-94.9	-52.4	**2.4**	**-2.1**	94.9
B171	2.850	NC_ULS-Set B (auto).33	**-25.6**	0.3	-19.9	-0.5	5.2	1.3	32.5
B171	0.000	NC_ULS-Set B (auto).9	**26.7**	0.0	-4.4	-0.2	14.2	2.5	27.0
B171	2.290	NC_ULS-Set B (auto).38	0.4	**-12.1**	-10.0	-4.5	2.6	0.1	15.7
B171	2.850	NC_ULS-Set B (auto).29	0.5	**12.2**	-23.2	0.7	5.8	1.0	26.2
B171	2.850	NC_ULS-Set B (auto).4	0.9	0.4	**-51.6**	-1.8	13.2	2.3	**51.6**
B171	0.000	NC_ULS-Set B (auto).38	0.5	-11.3	**-2.6**	-0.3	3.2	1.0	11.6
B171	1.450-	NC_ULS-Set B (auto).4	1.1	-0.7	-35.4	**-68.6**	15.8	-1.1	35.5
B171	2.850	NC_ULS-Set B (auto).30	0.2	12.2	-16.6	**0.9**	4.1	0.7	20.6
B171	2.150-	NC_ULS-Set B (auto).34	-24.8	-0.4	-11.7	-16.0	**1.9**	0.5	27.4
B171	0.435	NC_ULS-Set B (auto).4	1.3	0.6	-14.9	-35.5	**22.2**	-0.2	15.0
B171	1.015	NC_ULS-Set B (auto).4	1.2	-0.1	-27.5	-62.8	20.1	**-1.6**	27.5
B171	0.000	NC_ULS-Set B (auto).4	1.4	0.0	-5.5	-0.4	20.1	**3.5**	5.6
B172	3.000	NC_ULS-Set B (auto).17	**-26.1**	-0.1	-48.3	-2.5	0.5	0.5	54.9
B172	0.000	NC_ULS-Set B (auto).9	**26.2**	-0.1	-47.7	-2.4	2.0	-0.2	54.4
B172	3.000	NC_ULS-Set B (auto).38	0.0	**-21.3**	-21.6	-3.2	0.2	0.0	30.4
B172	2.100	NC_ULS-Set B (auto).4	0.1	-1.5	**-93.7**	-67.1	0.4	1.5	**93.7**
B172	0.000	NC_ULS-Set B (auto).38	0.1	-18.5	**-19.2**	-2.8	1.4	0.2	26.7
B172	1.500-	NC_ULS-Set B (auto).4	0.2	-1.9	-92.8	**-78.8**	3.0	-0.3	92.8
B172	3.000	NC_ULS-Set B (auto).30	0.0	**21.1**	-29.0	**0.7**	0.4	0.1	35.9
B172	2.400	NC_ULS-Set B (auto).9	26.0	-0.2	-49.7	-30.8	**-1.1**	0.5	56.1
B172	0.300	NC_ULS-Set B (auto).4	0.4	-0.2	-86.0	-31.0	**7.2**	-0.9	86.0
B172	0.900	NC_ULS-Set B (auto).4	0.3	-1.2	-90.1	-66.8	5.8	**-1.9**	90.1
B172	2.400	NC_ULS-Set B (auto).4	0.0	-1.0	-93.7	-52.3	-0.2	**1.9**	93.7
B173	3.000	NC_ULS-Set B (auto).17	**-27.0**	0.0	-49.5	-0.1	-2.0	-0.1	56.4
B173	0.000	NC_ULS-Set B (auto).25	**26.6**	0.0	-41.5	-0.1	-0.5	-0.3	49.3
B173	0.000	NC_ULS-Set B (auto).38	-0.1	**-20.6**	-26.0	-2.2	-0.3	0.0	33.1
B173	0.000	NC_ULS-Set B (auto).4	-0.2	0.1	**-97.4**	-0.3	-1.0	-0.2	**97.4**
B173	3.000	NC_ULS-Set B (auto).2	-0.1	0.0	**-22.2**	-0.1	-1.6	-0.2	22.2
B173	1.500-	NC_ULS-Set B (auto).4	-0.3	-0.9	-95.6	**-45.2**	-3.2	0.3	95.6
B173	0.000	NC_ULS-Set B (auto).30	-0.1	**20.6**	-26.6	**2.1**	-0.4	-0.1	33.7
B173	3.000	NC_ULS-Set B (auto).4	-0.4	0.2	-87.1	-0.2	**-6.9**	-0.8	87.1
B173	0.600	NC_ULS-Set B (auto).34	-25.8	0.0	-30.6	-9.8	**0.7**	-0.3	40.0
B173	1.200	NC_ULS-Set B (auto).30	-0.2	19.5	-26.3	-11.0	-0.6	**-1.3**	32.7
B173	1.800	NC_ULS-Set B (auto).21	-0.1	-18.3	-44.7	-17.0	-2.0	**1.5**	48.3
B174	3.000	NC_ULS-Set B (auto).17	**-27.1**	0.2	-35.3	0.0	-7.6	-0.7	44.5
B174	0.000	NC_ULS-Set B (auto).25	**26.5**	0.1	-36.3	-0.1	-3.5	-0.6	44.9
B174	0.000	NC_ULS-Set B (auto).38	-0.1	**-17.9**	-23.0	-2.0	-1.7	-0.2	29.1

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B174	0.000	NC_ULS-Set B (auto).4	-0.4	0.2	**-87.1**	-0.2	-6.9	-0.8	**87.1**
B174	3.000	NC_ULS-Set B (auto).26	25.5	0.2	**-13.5**	0.0	-3.6	-0.7	28.9
B174	1.500-	NC_ULS-Set B (auto).4	-0.5	-0.6	-73.7	**-45.0**	-12.0	0.8	73.7
B174	0.000	NC_ULS-Set B (auto).30	-0.2	**18.0**	-23.7	**1.9**	-2.1	-0.2	29.7
B174	2.700	NC_ULS-Set B (auto).4	-0.5	0.6	-57.0	-16.2	**-14.6**	0.1	57.0
B174	0.300	NC_ULS-Set B (auto).34	-25.8	0.0	-30.5	-5.9	**-0.6**	-0.1	40.0
B174	1.200	NC_ULS-Set B (auto).30	-0.2	15.6	-21.0	-11.3	-2.8	**-2.9**	26.1
B174	1.500-	NC_ULS-Set B (auto).37	-0.2	-14.6	-28.5	-13.6	-4.8	**3.4**	32.0
B175	2.850	NC_ULS-Set B (auto).17	**-27.1**	0.2	-4.5	0.0	-12.7	-0.6	27.5
B175	0.000	NC_ULS-Set B (auto).25	**26.4**	0.2	-20.1	0.0	-5.5	-0.9	33.2
B175	1.327	NC_ULS-Set B (auto).37	-0.2	**-13.0**	-13.7	-12.0	-6.0	-0.1	18.9
B175	0.000	NC_ULS-Set B (auto).4	-0.5	0.4	**-52.7**	0.0	-14.0	-1.7	**52.7**
B175	2.850	NC_ULS-Set B (auto).38	-0.2	-11.2	**-2.9**	-0.1	-3.5	-0.2	11.6
B175	1.475-	NC_ULS-Set B (auto).4	-0.6	-3.3	-32.8	**-41.1**	-16.9	1.1	32.9
B175	0.000	NC_ULS-Set B (auto).29	-0.4	**11.9**	-21.2	**1.6**	-5.6	-0.7	24.3
B175	2.162-	NC_ULS-Set B (auto).4	-0.6	-1.1	-19.5	-30.0	**-20.5**	4.1	19.5
B175	0.737-	NC_ULS-Set B (auto).26	25.5	-0.8	-11.4	-10.2	**-2.4**	-1.4	28.0
B175	0.590	NC_ULS-Set B (auto).4	-0.6	-1.5	-45.2	-26.8	-12.5	**-3.9**	45.2
B175	2.025	NC_ULS-Set B (auto).4	-0.6	-1.7	-22.3	-33.7	-20.2	**4.2**	22.4
B176	2.850	NC_ULS-Set B (auto).17	**-26.6**	0.2	-25.1	0.0	6.6	1.0	36.6
B176	0.000	NC_ULS-Set B (auto).9	**26.9**	0.1	-4.5	0.0	12.7	0.6	27.2
B176	1.590	NC_ULS-Set B (auto).21	0.3	**-12.8**	-17.7	-15.3	7.2	0.3	21.8
B176	2.850	NC_ULS-Set B (auto).30	0.1	**11.7**	-14.5	1.5	3.8	0.4	18.6
B176	2.850	NC_ULS-Set B (auto).4	0.2	0.2	**-52.6**	0.0	14.0	1.6	**52.6**
B176	0.000	NC_ULS-Set B (auto).38	0.1	-11.2	**-2.9**	-0.1	3.6	0.1	11.5
B176	1.450-	NC_ULS-Set B (auto).4	0.3	-3.2	-33.9	**-41.2**	16.6	-0.6	34.0
B176	2.850	NC_ULS-Set B (auto).29	0.2	11.7	-21.2	**1.6**	5.6	0.7	24.2
B176	2.150-	NC_ULS-Set B (auto).34	-25.7	-0.8	-11.5	-9.9	**2.5**	1.3	28.2
B176	0.580	NC_ULS-Set B (auto).4	0.3	-0.7	-17.1	-26.5	**20.3**	-3.4	17.2
B176	0.725-	NC_ULS-Set B (auto).4	0.3	-1.2	-20.1	-31.1	20.2	**-3.7**	20.1
B176	2.290	NC_ULS-Set B (auto).4	0.2	-1.4	-45.5	-25.8	12.4	**3.6**	45.5
B177	3.000	NC_ULS-Set B (auto).17	**-26.8**	0.0	-50.1	-0.1	0.6	0.2	56.8
B177	0.000	NC_ULS-Set B (auto).9	**26.7**	0.0	-49.5	-0.1	2.0	0.0	56.2
B177	3.000	NC_ULS-Set B (auto).38	0.0	**-20.6**	-26.0	-2.2	0.3	0.0	33.2
B177	3.000	NC_ULS-Set B (auto).4	-0.1	0.0	**-97.3**	-0.3	1.0	0.1	**97.3**
B177	0.000	NC_ULS-Set B (auto).2	0.0	0.0	**-22.1**	-0.1	1.6	0.2	22.1
B177	1.500-	NC_ULS-Set B (auto).4	0.0	-1.0	-95.5	**-45.2**	3.2	-0.2	95.5
B177	3.000	NC_ULS-Set B (auto).30	0.0	**20.6**	-26.6	**2.1**	0.4	0.1	33.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B177	2.400	NC_ULS-Set B (auto).26	25.6	0.0	-30.6	-9.8	**-0.7**	0.3	39.9
B177	0.000	NC_ULS-Set B (auto).4	0.1	0.0	-87.0	-0.2	**6.9**	0.7	87.0
B177	1.200	NC_ULS-Set B (auto).38	0.0	-19.1	-24.8	-5.5	1.2	**-1.5**	31.3
B177	1.800	NC_ULS-Set B (auto).30	0.0	19.4	-26.3	-11.0	0.6	**1.4**	32.7
B178	3.000	NC_ULS-Set B (auto).17	**-25.9**	0.1	-48.3	2.5	0.5	-0.5	54.8
B178	0.000	NC_ULS-Set B (auto).9	**26.1**	0.0	-47.7	2.4	2.1	0.1	54.3
B178	3.000	NC_ULS-Set B (auto).38	0.0	**-21.1**	-29.0	-0.7	0.4	-0.1	35.9
B178	3.000	NC_ULS-Set B (auto).30	0.0	**21.3**	-21.7	3.2	0.2	0.0	30.4
B178	2.100	NC_ULS-Set B (auto).4	0.1	1.5	**-93.8**	-57.8	0.4	-1.5	**93.8**
B178	0.000	NC_ULS-Set B (auto).30	0.1	18.5	**-19.2**	2.8	1.4	-0.2	26.7
B178	1.500-	NC_ULS-Set B (auto).4	0.2	1.9	-92.8	**-69.8**	3.0	0.3	92.9
B178	3.000	NC_ULS-Set B (auto).4	0.0	0.2	-93.7	**4.8**	1.0	-0.1	93.7
B178	2.400	NC_ULS-Set B (auto).9	25.9	0.1	-49.7	-25.8	**-1.1**	-0.5	56.1
B178	0.300	NC_ULS-Set B (auto).4	0.4	0.2	-86.0	-22.5	**7.3**	0.9	86.0
B178	2.400	NC_ULS-Set B (auto).4	0.1	1.0	-93.7	-42.9	-0.2	**-1.9**	93.8
B178	0.900	NC_ULS-Set B (auto).4	0.3	1.2	-90.1	-58.0	5.9	**1.9**	90.1
B179	3.000	NC_ULS-Set B (auto).17	**-26.2**	0.1	-49.2	2.5	0.2	-0.4	55.7
B179	0.000	NC_ULS-Set B (auto).25	**25.9**	0.1	-40.9	2.1	-0.2	0.5	48.4
B179	3.000	NC_ULS-Set B (auto).38	-0.1	**-21.1**	-29.0	-0.7	-0.4	0.1	35.9
B179	1.500-	NC_ULS-Set B (auto).30	-0.1	**21.8**	-22.0	-1.9	0.0	0.0	30.9
B179	0.000	NC_ULS-Set B (auto).30	0.0	21.3	**-21.7**	3.2	0.2	0.0	30.4
B179	1.500-	NC_ULS-Set B (auto).4	-0.2	2.2	**-96.3**	**-69.5**	0.0	0.0	**96.3**
B179	3.000	NC_ULS-Set B (auto).4	-0.4	0.3	-93.7	**4.8**	-0.9	0.2	93.7
B179	2.400	NC_ULS-Set B (auto).4	-0.3	1.0	-94.9	-42.8	**-2.3**	**-2.1**	94.9
B179	0.600	NC_ULS-Set B (auto).4	-0.1	1.0	-94.9	-42.8	**2.4**	**2.1**	94.9
B180	3.000	NC_ULS-Set B (auto).17	**-26.4**	0.1	-47.7	2.4	-2.0	0.0	54.5
B180	0.000	NC_ULS-Set B (auto).25	**25.7**	0.1	-40.0	2.0	-0.4	0.5	47.6
B180	0.000	NC_ULS-Set B (auto).38	-0.1	**-21.1**	-29.0	-0.7	-0.4	0.1	35.9
B180	0.000	NC_ULS-Set B (auto).30	-0.2	**21.3**	-21.7	3.2	-0.2	0.0	30.4
B180	0.900	NC_ULS-Set B (auto).4	-0.5	1.6	**-93.8**	-57.8	-0.4	1.5	**93.8**
B180	3.000	NC_ULS-Set B (auto).30	-0.3	18.6	**-19.2**	2.8	-1.4	0.3	26.7
B180	1.500-	NC_ULS-Set B (auto).4	-0.6	2.0	-92.9	**-69.8**	-3.0	-0.3	92.9
B180	0.000	NC_ULS-Set B (auto).4	-0.4	0.3	-93.7	**4.8**	-0.9	0.2	93.7
B180	2.700	NC_ULS-Set B (auto).4	-0.8	0.3	-86.1	-22.5	**-7.3**	-0.8	86.1
B180	0.600	NC_ULS-Set B (auto).17	-26.2	0.2	-49.7	-25.8	**1.1**	0.5	56.2
B180	2.100	NC_ULS-Set B (auto).4	-0.7	1.3	-90.2	-58.0	-5.9	**-1.8**	90.2
B180	0.600	NC_ULS-Set B (auto).4	-0.5	1.1	-93.8	-42.9	0.3	**1.9**	93.8
B181	3.000	NC_ULS-Set B (auto).17	**-26.6**	0.1	-34.2	1.5	-7.0	0.9	43.3

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B181	0.000	NC_ULS-Set B (auto).25	**25.5**	0.1	-35.0	1.7	-3.5	1.1	43.3
B181	0.000	NC_ULS-Set B (auto).38	-0.2	**-18.4**	-25.7	-0.6	-2.4	0.5	31.6
B181	0.000	NC_ULS-Set B (auto).30	-0.3	**18.6**	-19.2	2.8	-1.4	0.3	26.7
B181	0.000	NC_ULS-Set B (auto).4	-0.8	0.3	**-83.9**	**4.2**	-6.8	1.3	**83.9**
B181	3.000	NC_ULS-Set B (auto).30	-0.5	12.3	**-11.3**	1.9	-2.7	0.6	16.7
B181	1.500-	NC_ULS-Set B (auto).4	-1.0	2.0	-71.8	**-71.2**	-11.3	-1.0	71.9
B181	2.400	NC_ULS-Set B (auto).4	-1.2	0.3	-59.8	-45.1	**-14.5**	-1.7	59.9
B181	0.300	NC_ULS-Set B (auto).34	-25.2	0.0	-29.4	-7.9	**-0.4**	0.1	38.7
B181	1.800	NC_ULS-Set B (auto).13	-0.7	14.3	-29.7	-20.9	-5.8	**-3.4**	33.0
B181	1.200	NC_ULS-Set B (auto).38	-0.2	-15.8	-23.0	-21.7	-2.7	**3.0**	27.9
B182	3.000	NC_ULS-Set B (auto).17	**-25.4**	1.4	-40.6	6.9	0.4	-0.6	47.9
B182	0.000	NC_ULS-Set B (auto).25	**25.2**	1.1	-33.9	5.7	1.2	0.5	42.2
B182	3.000	NC_ULS-Set B (auto).38	0.0	**-20.9**	-27.5	2.6	0.4	-0.1	34.5
B182	3.000	NC_ULS-Set B (auto).30	-0.1	**22.4**	-15.4	4.4	0.1	0.0	27.2
B182	2.100	NC_ULS-Set B (auto).4	-0.2	4.1	**-79.0**	-49.6	0.1	-1.6	**79.1**
B182	0.000	NC_ULS-Set B (auto).30	0.0	19.5	**-13.7**	3.8	0.9	0.0	23.8
B182	1.500-	NC_ULS-Set B (auto).4	-0.2	4.5	-78.3	**-61.8**	2.5	0.3	78.4
B182	3.000	NC_ULS-Set B (auto).4	-0.2	2.8	-78.8	**13.3**	0.9	-0.1	78.8
B182	2.400	NC_ULS-Set B (auto).9	25.1	1.4	-41.9	-21.4	**-1.0**	-0.5	48.8
B182	0.300	NC_ULS-Set B (auto).4	-0.1	2.6	-72.5	-14.9	**6.0**	1.3	72.6
B182	2.400	NC_ULS-Set B (auto).4	-0.2	3.5	-78.9	-34.6	-0.4	**-1.9**	79.0
B182	0.600	NC_ULS-Set B (auto).4	-0.2	3.1	-74.3	-35.5	5.8	**2.1**	74.4
B183	3.000	NC_ULS-Set B (auto).17	**-25.5**	1.4	-41.4	7.0	0.0	-0.6	48.6
B183	0.000	NC_ULS-Set B (auto).25	**25.1**	1.1	-34.4	5.9	-0.1	0.6	42.6
B183	3.000	NC_ULS-Set B (auto).38	-0.1	**-20.9**	-27.5	2.6	-0.4	0.1	34.5
B183	1.500-	NC_ULS-Set B (auto).30	-0.1	**22.9**	-15.6	-0.7	0.0	0.0	27.7
B183	0.000	NC_ULS-Set B (auto).30	-0.1	22.4	**-15.4**	4.4	0.1	0.0	27.2
B183	1.500-	NC_ULS-Set B (auto).4	-0.3	4.9	**-81.3**	**-61.0**	0.0	0.0	**81.5**
B183	3.000	NC_ULS-Set B (auto).4	-0.3	2.8	-78.8	**13.3**	-0.9	0.0	78.8
B183	2.400	NC_ULS-Set B (auto).4	-0.3	3.6	-80.0	-34.2	**-2.3**	**-2.1**	80.1
B183	0.600	NC_ULS-Set B (auto).4	-0.2	3.6	-80.0	-34.2	**2.3**	**2.2**	80.1
B184	3.000	NC_ULS-Set B (auto).17	**-25.5**	1.3	-40.2	6.7	-1.6	-0.5	47.6
B184	0.000	NC_ULS-Set B (auto).25	**25.1**	1.1	-33.6	5.7	-0.4	0.6	42.0
B184	0.000	NC_ULS-Set B (auto).38	-0.1	**-20.9**	-27.5	2.6	-0.4	0.1	34.5
B184	0.000	NC_ULS-Set B (auto).30	-0.2	**22.4**	-15.4	4.4	-0.1	0.0	27.2
B184	0.900	NC_ULS-Set B (auto).4	-0.4	4.1	**-79.0**	-49.6	-0.1	1.6	**79.1**
B184	3.000	NC_ULS-Set B (auto).30	-0.3	19.5	**-13.7**	3.8	-0.9	0.0	23.9
B184	1.500-	NC_ULS-Set B (auto).4	-0.4	4.6	-78.3	**-61.8**	-2.5	-0.3	78.4

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B184	0.000	NC_ULS-Set B (auto).4	-0.3	2.8	-78.8	**13.3**	-0.9	0.0	78.8
B184	2.700	NC_ULS-Set B (auto).4	-0.4	2.7	-72.6	-14.8	**-6.0**	-1.3	72.6
B184	0.600	NC_ULS-Set B (auto).17	-25.5	1.4	-41.9	-21.4	**1.0**	0.5	49.0
B184	2.400	NC_ULS-Set B (auto).4	-0.4	3.2	-74.4	-35.5	-5.8	**-2.1**	74.4
B184	0.600	NC_ULS-Set B (auto).4	-0.4	3.6	-78.9	-34.6	0.4	**1.9**	79.0
B185	3.000	NC_ULS-Set B (auto).17	**-25.6**	0.8	-29.5	4.4	-6.0	0.1	39.1
B185	0.000	NC_ULS-Set B (auto).25	**25.0**	1.0	-29.6	4.9	-2.6	0.8	38.8
B185	0.000	NC_ULS-Set B (auto).38	-0.2	**-18.2**	-24.5	2.2	-2.1	0.4	30.5
B185	0.000	NC_ULS-Set B (auto).29	-0.4	**19.6**	-22.5	5.4	-1.6	0.1	29.8
B185	0.000	NC_ULS-Set B (auto).4	-0.4	2.5	**-70.8**	**11.8**	-5.3	0.5	**70.9**
B185	3.000	NC_ULS-Set B (auto).30	-0.4	12.8	**-8.0**	2.2	-1.9	0.1	15.1
B185	1.500-	NC_ULS-Set B (auto).4	-0.5	3.7	-61.9	**-65.3**	-8.9	-1.1	62.0
B185	2.700	NC_ULS-Set B (auto).4	-0.5	1.2	-48.3	-19.9	**-12.3**	-1.2	48.4
B185	0.300	NC_ULS-Set B (auto).34	-24.4	0.7	-24.8	-5.3	**-0.2**	0.0	34.9
B185	1.800	NC_ULS-Set B (auto).13	-0.5	15.5	-23.4	-19.1	-4.5	**-3.5**	28.1
B185	1.200	NC_ULS-Set B (auto).38	-0.2	-15.6	-22.2	-19.2	-2.3	**3.0**	27.2
B186	0.000	NC_ULS-Set B (auto).17	**-24.1**	3.2	-24.3	7.9	1.7	-1.0	34.4
B186	3.000	NC_ULS-Set B (auto).25	**23.9**	3.1	-22.9	7.7	0.0	0.7	33.2
B186	3.000	NC_ULS-Set B (auto).38	0.0	**-19.8**	-21.1	5.0	0.3	-0.1	28.9
B186	3.000	NC_ULS-Set B (auto).13	-0.1	**24.2**	-19.4	7.8	0.1	0.0	31.0
B186	1.800	NC_ULS-Set B (auto).4	-0.2	8.8	**-53.4**	-54.5	0.5	-0.5	**54.1**
B186	0.000	NC_ULS-Set B (auto).30	-0.1	20.6	**-7.5**	3.6	0.3	0.1	21.9
B186	1.500-	NC_ULS-Set B (auto).4	-0.2	8.8	-53.1	**-57.7**	1.6	0.6	53.8
B186	3.000	NC_ULS-Set B (auto).4	-0.2	7.2	-52.8	**17.6**	0.6	-0.1	53.3
B186	2.400	NC_ULS-Set B (auto).9	23.8	3.7	-28.1	-19.1	**-1.0**	-0.5	37.0
B186	2.400	NC_ULS-Set B (auto).4	-0.2	8.0	-53.1	-30.4	-0.9	**-1.8**	53.7
B186	0.600	NC_ULS-Set B (auto).4	-0.2	7.2	-50.2	-31.5	**4.3**	**2.3**	50.7
B187	0.000	NC_ULS-Set B (auto).17	**-24.1**	3.6	-27.2	9.1	0.2	-0.7	36.6
B187	3.000	NC_ULS-Set B (auto).25	**23.9**	3.0	-22.5	7.6	-0.1	0.8	32.9
B187	3.000	NC_ULS-Set B (auto).38	0.0	**-19.8**	-21.1	5.0	-0.3	0.1	28.9
B187	1.500-	NC_ULS-Set B (auto).13	-0.2	**24.8**	-20.1	-16.9	0.0	0.0	31.9
B187	3.000	NC_ULS-Set B (auto).30	-0.1	23.7	**-8.2**	4.1	0.0	0.0	25.1
B187	1.500-	NC_ULS-Set B (auto).4	-0.2	9.3	**-55.1**	**-56.7**	0.0	0.0	**55.9**
B187	3.000	NC_ULS-Set B (auto).4	-0.2	7.3	-52.8	**17.6**	-0.6	0.1	53.3
B187	2.400	NC_ULS-Set B (auto).4	-0.2	8.1	-53.8	-30.0	**-2.1**	**-2.1**	54.5
B187	0.600	NC_ULS-Set B (auto).4	-0.2	8.1	-53.9	-30.0	**2.1**	**2.1**	54.5
B188	0.000	NC_ULS-Set B (auto).17	**-24.1**	3.7	-27.7	9.2	0.0	-0.7	36.9
B188	3.000	NC_ULS-Set B (auto).25	**23.9**	2.7	-19.9	6.6	-1.4	1.0	31.2

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B188	0.000	NC_ULS-Set B (auto).38	0.0	**-19.8**	-21.1	5.0	-0.3	0.1	28.9
B188	0.000	NC_ULS-Set B (auto).13	-0.2	**24.2**	-19.4	7.8	-0.1	0.0	31.0
B188	1.200	NC_ULS-Set B (auto).4	-0.2	8.9	**-53.4**	-54.5	-0.5	0.5	**54.1**
B188	3.000	NC_ULS-Set B (auto).30	-0.1	20.6	**-7.5**	3.6	-0.3	0.0	21.9
B188	1.500-	NC_ULS-Set B (auto).4	-0.2	8.8	-53.1	**-57.7**	-1.6	-0.5	53.8
B188	0.000	NC_ULS-Set B (auto).4	-0.2	7.3	-52.8	**17.6**	-0.6	0.1	53.3
B188	0.600	NC_ULS-Set B (auto).17	-24.1	3.7	-28.1	-19.1	**1.0**	0.5	37.2
B188	2.400	NC_ULS-Set B (auto).4	-0.2	7.3	-50.2	-31.5	**-4.3**	**-2.3**	50.7
B188	0.600	NC_ULS-Set B (auto).4	-0.2	8.1	-53.1	-30.4	0.9	**1.8**	53.8
B189	0.000	NC_ULS-Set B (auto).17	**-24.1**	3.6	-27.0	8.9	-1.0	-0.5	36.4
B189	3.000	NC_ULS-Set B (auto).25	**23.9**	0.9	-12.6	3.7	-2.6	1.2	27.0
B189	0.000	NC_ULS-Set B (auto).38	-0.1	**-17.2**	-19.0	4.4	-1.6	0.3	25.6
B189	0.000	NC_ULS-Set B (auto).13	-0.2	**21.2**	-17.6	7.0	-1.0	0.1	27.5
B189	0.000	NC_ULS-Set B (auto).4	-0.2	6.5	**-47.7**	**15.7**	-3.2	0.6	**48.2**
B189	3.000	NC_ULS-Set B (auto).30	-0.2	13.3	**-4.5**	1.9	-0.8	0.1	14.1
B189	1.500-	NC_ULS-Set B (auto).4	-0.1	6.7	-42.9	**-61.8**	-5.6	-2.1	43.5
B189	2.400	NC_ULS-Set B (auto).4	-0.1	3.9	-36.4	-36.9	**-8.3**	-3.0	36.6
B189	0.600	NC_ULS-Set B (auto).34	-23.1	2.1	-16.8	-11.4	**0.0**	0.1	28.6
B189	1.800	NC_ULS-Set B (auto).13	-0.2	16.8	-14.7	-18.6	-2.8	**-4.0**	22.3
B189	1.200	NC_ULS-Set B (auto).38	-0.1	-14.8	-17.4	-17.2	-1.6	**2.8**	22.8
B190	3.000	NC_ULS-Set B (auto).17	**-26.7**	0.0	-44.0	0.1	4.1	-0.7	51.5
B190	0.000	NC_ULS-Set B (auto).9	**26.8**	0.0	-35.2	0.1	7.8	-0.6	44.3
B190	3.000	NC_ULS-Set B (auto).38	0.1	**-17.9**	-23.6	-1.9	2.1	-0.3	29.7
B190	3.000	NC_ULS-Set B (auto).30	0.0	**17.9**	-23.1	2.0	1.7	-0.2	29.2
B190	3.000	NC_ULS-Set B (auto).4	0.1	0.0	**-87.0**	0.2	7.0	-0.8	**87.0**
B190	0.000	NC_ULS-Set B (auto).34	-25.8	0.1	**-13.4**	0.0	3.3	-0.7	29.1
B190	1.500-	NC_ULS-Set B (auto).4	0.2	1.0	-73.6	**-44.7**	11.9	0.5	73.6
B190	3.000	NC_ULS-Set B (auto).29	0.1	17.6	-34.0	**2.0**	2.5	-0.3	38.3
B190	2.700	NC_ULS-Set B (auto).26	25.6	0.0	-30.4	-5.7	**0.6**	-0.1	39.8
B190	0.300	NC_ULS-Set B (auto).4	0.2	-0.1	-56.9	-16.0	**14.7**	0.1	56.9
B190	1.800	NC_ULS-Set B (auto).38	0.1	-15.4	-20.9	-14.7	2.7	**-3.0**	26.0
B190	1.500-	NC_ULS-Set B (auto).30	0.0	15.0	-19.4	-1.8	3.2	**3.2**	24.5
B191	3.000	NC_ULS-Set B (auto).17	**-26.8**	0.0	-50.1	0.1	0.5	-0.3	56.8
B191	0.000	NC_ULS-Set B (auto).9	**26.7**	-0.1	-49.5	0.1	2.0	0.0	56.2
B191	3.000	NC_ULS-Set B (auto).38	0.0	**-20.6**	-26.6	-2.1	0.4	-0.1	33.7
B191	3.000	NC_ULS-Set B (auto).30	-0.1	**20.6**	-26.0	2.2	0.3	0.0	33.1
B191	3.000	NC_ULS-Set B (auto).4	-0.1	0.0	**-97.3**	0.3	1.0	-0.1	**97.3**
B191	0.000	NC_ULS-Set B (auto).2	0.0	0.0	**-22.1**	0.1	1.6	-0.2	22.1

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B191	1.500-	NC_ULS-Set B (auto).4	0.0	1.0	-95.5	**-44.7**	3.2	0.2	95.5
B191	3.000	NC_ULS-Set B (auto).29	0.0	20.2	-37.9	**2.2**	0.3	0.0	43.0
B191	2.400	NC_ULS-Set B (auto).26	25.6	0.0	-30.6	-9.6	**-0.7**	-0.2	39.9
B191	0.000	NC_ULS-Set B (auto).4	0.1	0.0	-87.0	0.2	**7.0**	-0.8	87.0
B191	1.800	NC_ULS-Set B (auto).38	0.0	-19.5	-26.3	-15.0	0.6	**-1.4**	32.7
B191	1.200	NC_ULS-Set B (auto).30	0.0	19.1	-24.9	-1.4	1.2	**1.5**	31.3
B192	3.000	NC_ULS-Set B (auto).17	**-26.9**	0.0	-51.1	0.1	0.1	-0.2	57.7
B192	0.000	NC_ULS-Set B (auto).25	**26.6**	0.0	-42.5	0.1	-0.2	0.3	50.1
B192	3.000	NC_ULS-Set B (auto).38	-0.1	**-20.6**	-26.6	-2.1	-0.4	0.0	33.7
B192	1.500-	NC_ULS-Set B (auto).30	-0.1	**20.9**	-26.3	-1.4	0.0	0.0	33.6
B192	0.000	NC_ULS-Set B (auto).2	-0.1	0.0	**-24.5**	0.1	0.2	0.0	24.5
B192	1.500-	NC_ULS-Set B (auto).4	-0.2	1.2	**-99.2**	**-44.7**	0.0	0.0	**99.2**
B192	3.000	NC_ULS-Set B (auto).29	-0.1	20.2	-37.9	**2.2**	-0.3	0.0	43.0
B192	2.400	NC_ULS-Set B (auto).4	-0.2	0.4	-98.3	-28.5	**-1.7**	**-1.2**	98.3
B192	0.600	NC_ULS-Set B (auto).4	-0.1	0.4	-98.3	-28.5	**1.7**	**1.2**	98.3
B193	3.000	NC_ULS-Set B (auto).17	**-27.0**	0.0	-49.5	0.1	-2.0	0.0	56.4
B193	0.000	NC_ULS-Set B (auto).25	**26.6**	0.0	-41.5	0.1	-0.4	0.3	49.3
B193	0.000	NC_ULS-Set B (auto).38	-0.1	**-20.6**	-26.6	-2.1	-0.4	0.0	33.7
B193	0.000	NC_ULS-Set B (auto).30	-0.1	**20.6**	-26.0	2.2	-0.2	0.0	33.2
B193	0.000	NC_ULS-Set B (auto).4	-0.2	0.0	**-97.4**	0.3	-1.0	0.1	**97.4**
B193	3.000	NC_ULS-Set B (auto).2	-0.1	0.0	**-22.2**	0.1	-1.6	0.2	22.2
B193	1.500-	NC_ULS-Set B (auto).4	-0.3	1.1	-95.6	**-44.7**	-3.2	-0.2	95.6
B193	0.000	NC_ULS-Set B (auto).29	-0.1	20.2	-37.9	**2.2**	-0.3	0.0	43.0
B193	3.000	NC_ULS-Set B (auto).4	-0.4	0.1	-87.1	0.2	**-6.9**	0.8	87.1
B193	0.600	NC_ULS-Set B (auto).34	-25.8	0.0	-30.6	-9.6	**0.7**	0.3	40.0
B193	1.800	NC_ULS-Set B (auto).30	-0.1	19.1	-24.9	-1.4	-1.2	**-1.5**	31.4
B193	1.200	NC_ULS-Set B (auto).38	-0.1	-19.5	-26.3	-15.0	-0.6	**1.4**	32.7
B194	3.000	NC_ULS-Set B (auto).17	**-27.1**	0.1	-35.3	0.2	-7.8	0.6	44.5
B194	0.000	NC_ULS-Set B (auto).25	**26.5**	0.1	-36.3	0.1	-3.5	0.6	44.9
B194	0.000	NC_ULS-Set B (auto).38	-0.2	**-17.9**	-23.6	-1.9	-2.1	0.2	29.6
B194	0.000	NC_ULS-Set B (auto).30	-0.2	**18.0**	-23.1	2.0	-1.7	0.2	29.3
B194	0.000	NC_ULS-Set B (auto).4	-0.4	0.1	**-87.1**	0.2	-6.9	0.8	**87.1**
B194	3.000	NC_ULS-Set B (auto).26	25.5	0.1	**-13.5**	0.0	-3.3	0.7	28.9
B194	1.500-	NC_ULS-Set B (auto).4	-0.5	1.2	-73.7	**-44.7**	-11.9	-0.5	73.7
B194	0.000	NC_ULS-Set B (auto).29	-0.2	17.7	-34.0	**2.0**	-2.5	0.3	38.3
B194	2.700	NC_ULS-Set B (auto).4	-0.5	0.1	-57.0	-16.0	**-14.7**	0.0	57.0
B194	0.300	NC_ULS-Set B (auto).34	-25.8	0.0	-30.5	-5.7	**-0.6**	0.1	40.0
B194	1.500-	NC_ULS-Set B (auto).30	-0.2	15.1	-19.4	-1.8	-3.2	**-3.2**	24.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B194	1.200	NC_ULS-Set B (auto).38	-0.2	-15.5	-20.8	-14.7	-2.8	**3.0**	25.9
B195	0.000	NC_ULS-Set B (auto).17	**-23.0**	-5.2	-11.9	-6.4	0.5	0.9	26.4
B195	0.000	NC_ULS-Set B (auto).25	**22.5**	-5.0	-10.9	-6.0	0.4	-0.9	25.5
B195	2.100	NC_ULS-Set B (auto).21	-0.1	**-26.4**	-9.3	-26.2	-1.3	0.0	27.9
B195	3.000	NC_ULS-Set B (auto).30	-0.1	**18.2**	-12.0	-5.8	0.2	0.1	21.8
B195	0.150	NC_ULS-Set B (auto).38	-0.1	-21.5	**-2.7**	-2.9	0.0	-1.0	21.6
B195	1.500-	NC_ULS-Set B (auto).4	-0.4	-12.9	**-29.2**	**-89.0**	0.7	-0.7	31.9
B195	0.000	NC_ULS-Set B (auto).38	-0.1	-21.4	-2.8	**-1.9**	-0.3	-0.1	21.6
B195	2.250-	NC_ULS-Set B (auto).4	-0.4	-12.7	-27.5	-70.3	**-3.8**	1.1	30.3
B195	0.750-	NC_ULS-Set B (auto).4	-0.4	-11.8	-26.4	-69.6	**5.3**	-2.2	28.9
B195	0.900	NC_ULS-Set B (auto).38	-0.1	-23.1	-3.1	-6.6	0.6	**-2.7**	23.3
B195	2.100	NC_ULS-Set B (auto).30	-0.1	17.0	-12.7	-21.5	-0.9	**1.8**	21.3
B195	1.650	NC_ULS-Set B (auto).4	-0.4	-13.0	-29.2	-88.2	-0.7	-0.3	**32.0**
B196	0.000	NC_ULS-Set B (auto).17	**-23.0**	-6.0	-13.2	-7.2	-0.1	0.9	27.1
B196	3.000	NC_ULS-Set B (auto).25	**22.5**	-5.0	-10.8	-6.0	0.1	-0.9	25.4
B196	1.500-	NC_ULS-Set B (auto).21	-0.2	**-26.6**	-9.8	-30.7	0.0	0.0	28.3
B196	3.000	NC_ULS-Set B (auto).30	-0.1	**18.2**	-12.0	-5.8	-0.2	-0.1	21.8
B196	1.500-	NC_ULS-Set B (auto).4	-0.4	-13.6	**-30.2**	**-89.7**	0.0	0.0	**33.1**
B196	3.000	NC_ULS-Set B (auto).38	-0.2	-24.6	**-2.9**	**-2.1**	0.0	0.0	24.7
B196	2.250-	NC_ULS-Set B (auto).4	-0.4	-12.9	-28.0	-70.7	**-4.5**	1.7	30.8
B196	0.750-	NC_ULS-Set B (auto).4	-0.4	-12.9	-28.0	-70.7	**4.5**	-1.7	30.8
B196	0.600	NC_ULS-Set B (auto).4	-0.4	-12.7	-27.3	-62.4	4.5	**-1.7**	30.1
B196	2.400	NC_ULS-Set B (auto).4	-0.4	-12.6	-27.3	-62.4	-4.4	**1.7**	30.1
B197	0.000	NC_ULS-Set B (auto).17	**-22.9**	-6.2	-13.4	-7.4	-0.1	0.9	27.3
B197	3.000	NC_ULS-Set B (auto).25	**22.5**	-4.3	-9.7	-5.3	-0.4	-0.9	24.9
B197	0.750-	NC_ULS-Set B (auto).21	-0.2	**-26.3**	-9.0	-23.9	1.4	-0.1	27.8
B197	0.000	NC_ULS-Set B (auto).30	-0.1	**18.2**	-12.0	-5.8	-0.2	-0.1	21.8
B197	2.850	NC_ULS-Set B (auto).38	-0.2	-21.5	**-2.7**	-2.9	0.0	0.9	21.6
B197	1.500-	NC_ULS-Set B (auto).4	-0.3	-12.8	**-29.2**	**-89.0**	-0.7	0.7	31.9
B197	3.000	NC_ULS-Set B (auto).38	-0.2	-21.4	-2.8	**-1.8**	0.3	0.1	21.6
B197	2.250-	NC_ULS-Set B (auto).4	-0.3	-11.7	-26.4	-69.6	**-5.3**	2.2	28.9
B197	0.750-	NC_ULS-Set B (auto).4	-0.3	-12.7	-27.5	-70.3	**3.8**	-1.1	30.3
B197	0.900	NC_ULS-Set B (auto).30	-0.1	17.0	-12.7	-21.5	0.9	**-1.8**	21.3
B197	2.100	NC_ULS-Set B (auto).38	-0.2	-23.1	-3.0	-6.6	-0.6	**2.7**	23.3
B197	1.350	NC_ULS-Set B (auto).4	-0.3	-12.9	-29.2	-88.2	0.7	0.3	**31.9**
B198	3.000	NC_ULS-Set B (auto).17	**-22.9**	-3.5	-10.9	-5.4	-0.9	0.9	25.6
B198	3.000	NC_ULS-Set B (auto).25	**22.5**	-1.4	-6.8	-3.4	-0.6	-0.7	23.6
B198	0.900	NC_ULS-Set B (auto).21	-0.3	**-23.4**	-8.9	-25.3	1.4	0.1	25.0

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B198	0.000	NC_ULS-Set B (auto).30	-0.1	**15.8**	-10.9	-5.2	-0.9	-0.2	19.2
B198	1.350	NC_ULS-Set B (auto).4	-0.3	-10.2	**-25.4**	-85.5	-0.8	2.2	27.4
B198	1.500-	NC_ULS-Set B (auto).4	-0.3	-9.9	-25.2	**-86.1**	-2.2	2.9	27.1
B198	3.000	NC_ULS-Set B (auto).38	-0.3	-13.4	**-2.3**	**-1.0**	0.0	0.3	13.6
B198	2.250-	NC_ULS-Set B (auto).4	-0.3	-6.9	-21.2	-66.0	**-7.0**	4.4	22.3
B198	0.600	NC_ULS-Set B (auto).4	-0.3	-10.8	-24.1	-60.1	**2.7**	-0.5	26.4
B198	0.900	NC_ULS-Set B (auto).30	-0.1	13.4	-11.1	-20.5	0.5	**-3.9**	17.4
B198	2.100	NC_ULS-Set B (auto).21	-0.3	-18.5	-8.0	-24.6	-2.7	**7.2**	20.1
B198	1.350	NC_ULS-Set B (auto).17	-22.9	-5.1	-15.0	-52.4	0.1	0.7	**27.9**
B199	2.850	NC_ULS-Set B (auto).17	**-23.0**	-0.3	-2.2	-0.5	-6.4	0.2	23.1
B199	2.850	NC_ULS-Set B (auto).25	**22.5**	-0.4	-2.1	-0.2	-3.3	-1.4	22.6
B199	0.000	NC_ULS-Set B (auto).21	-0.3	**-14.0**	-5.9	-2.9	-0.5	0.4	15.2
B199	1.612	NC_ULS-Set B (auto).30	-0.2	**11.4**	-6.3	-19.5	-2.3	0.1	13.0
B199	0.000	NC_ULS-Set B (auto).4	-0.3	-4.8	**-16.7**	-8.7	-2.5	0.0	17.4
B199	1.475-	NC_ULS-Set B (auto).4	-0.3	-1.4	-15.3	**-73.6**	-4.8	2.5	15.4
B199	2.850	NC_ULS-Set B (auto).38	-0.3	-11.7	**-0.8**	**-0.1**	-0.9	0.3	11.7
B199	2.437	NC_ULS-Set B (auto).4	-0.3	-0.4	-6.8	-35.5	**-10.5**	0.1	6.8
B199	0.590	NC_ULS-Set B (auto).17	-23.0	-2.5	-11.3	-37.2	**1.2**	2.1	25.7
B199	2.850	NC_ULS-Set B (auto).10	21.5	-0.5	-2.5	-0.3	-2.7	**-1.6**	21.6
B199	1.032	NC_ULS-Set B (auto).4	-0.3	-2.7	-16.5	-69.2	-1.1	**3.2**	16.7
B199	1.032	NC_ULS-Set B (auto).17	-23.0	-1.5	-11.8	-51.8	0.1	2.2	**25.8**
B200	3.000	NC_ULS-Set B (auto).17	**-23.1**	3.9	-10.4	5.3	-2.2	-0.6	25.6
B200	3.000	NC_ULS-Set B (auto).25	**22.7**	1.9	-6.5	3.3	-1.5	0.8	23.7
B200	0.000	NC_ULS-Set B (auto).38	-0.1	**-15.8**	-10.9	5.1	-0.7	0.2	19.2
B200	0.900	NC_ULS-Set B (auto).13	-0.4	**23.3**	-9.2	-17.2	1.7	-0.2	25.1
B200	1.350	NC_ULS-Set B (auto).4	-0.3	10.4	**-25.8**	-63.4	-0.7	-2.1	27.8
B200	3.000	NC_ULS-Set B (auto).30	-0.3	13.7	**-2.0**	1.0	-0.6	-0.2	13.9
B200	1.500-	NC_ULS-Set B (auto).4	-0.3	10.0	-25.6	**-64.5**	-2.3	-2.6	27.5
B200	0.000	NC_ULS-Set B (auto).4	-0.3	10.8	-23.1	**13.0**	-0.9	0.0	25.5
B200	2.400	NC_ULS-Set B (auto).4	-0.3	6.9	-20.2	-38.5	**-7.7**	-3.6	21.3
B200	0.600	NC_ULS-Set B (auto).4	-0.3	11.0	-24.3	-35.8	**3.0**	0.3	26.7
B200	2.100	NC_ULS-Set B (auto).13	-0.4	18.7	-8.3	-18.0	-3.2	**-6.7**	20.4
B200	0.900	NC_ULS-Set B (auto).38	-0.2	-13.3	-11.4	-11.2	0.8	**4.0**	17.5
B200	1.350	NC_ULS-Set B (auto).17	-23.0	5.3	-15.3	-39.7	0.2	-0.6	**28.2**
B201	3.000	NC_ULS-Set B (auto).17	**-23.0**	5.9	-13.1	7.2	-0.3	-0.9	27.2
B201	3.000	NC_ULS-Set B (auto).25	**22.7**	4.4	-9.7	5.3	-0.3	0.8	25.0
B201	0.000	NC_ULS-Set B (auto).38	-0.1	**-18.2**	-12.0	5.8	-0.3	0.1	21.8
B201	0.750-	NC_ULS-Set B (auto).13	-0.3	**26.3**	-9.0	-14.1	1.3	0.1	27.8

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B201	2.850	NC_ULS-Set B (auto).30	-0.3	21.5	**-2.7**	0.8	0.1	-0.9	21.7
B201	1.500-	NC_ULS-Set B (auto).4	-0.3	13.0	**-29.1**	**-61.5**	-0.8	-0.6	31.9
B201	0.000	NC_ULS-Set B (auto).4	-0.3	12.0	-25.3	**14.5**	-0.4	0.0	28.0
B201	2.250-	NC_ULS-Set B (auto).4	-0.3	11.9	-26.3	-42.8	**-5.2**	-2.1	28.8
B201	0.750-	NC_ULS-Set B (auto).4	-0.3	12.8	-27.4	-42.1	**3.7**	1.2	30.3
B201	2.100	NC_ULS-Set B (auto).30	-0.2	23.1	-3.0	-2.7	-0.6	**-2.6**	23.3
B201	0.900	NC_ULS-Set B (auto).38	-0.1	-17.0	-12.7	-10.3	0.9	**1.9**	21.2
B201	1.350	NC_ULS-Set B (auto).4	-0.3	13.1	-29.1	-60.6	0.6	-0.2	**31.9**
B202	0.000	NC_ULS-Set B (auto).17	**-23.1**	6.0	-13.2	7.2	0.0	-0.9	27.2
B202	3.000	NC_ULS-Set B (auto).25	**22.6**	5.0	-10.8	6.0	0.0	0.8	25.6
B202	3.000	NC_ULS-Set B (auto).38	-0.1	**-18.2**	-12.0	5.8	-0.3	0.1	21.8
B202	1.500-	NC_ULS-Set B (auto).13	-0.2	**26.6**	-9.9	-20.6	0.0	0.0	28.3
B202	3.000	NC_ULS-Set B (auto).30	-0.2	24.6	**-2.9**	2.1	0.0	0.0	24.8
B202	1.500-	NC_ULS-Set B (auto).4	-0.3	13.6	**-30.3**	**-60.8**	0.0	0.0	**33.2**
B202	0.000	NC_ULS-Set B (auto).4	-0.4	12.0	-25.3	**14.5**	0.4	0.0	28.0
B202	2.250-	NC_ULS-Set B (auto).4	-0.3	12.9	-28.0	-41.7	**-4.5**	-1.6	30.9
B202	0.750-	NC_ULS-Set B (auto).4	-0.4	12.9	-28.0	-41.7	**4.5**	1.7	30.9
B202	2.400	NC_ULS-Set B (auto).4	-0.3	12.7	-27.3	-33.5	-4.5	**-1.7**	30.1
B202	0.600	NC_ULS-Set B (auto).4	-0.4	12.7	-27.3	-33.5	4.5	**1.7**	30.1
B203	0.000	NC_ULS-Set B (auto).17	**-23.1**	5.3	-11.9	6.4	0.4	-0.8	26.5
B203	0.000	NC_ULS-Set B (auto).25	**22.6**	5.0	-10.9	6.0	0.2	0.9	25.6
B203	3.000	NC_ULS-Set B (auto).38	0.0	**-18.2**	-12.0	5.8	0.3	-0.1	21.8
B203	2.100	NC_ULS-Set B (auto).13	-0.2	**26.4**	-9.2	-16.4	-1.2	0.0	27.9
B203	0.150	NC_ULS-Set B (auto).30	-0.1	21.5	**-2.7**	0.8	-0.1	1.0	21.6
B203	1.500-	NC_ULS-Set B (auto).4	-0.4	12.9	**-29.1**	**-61.5**	0.8	0.7	31.9
B203	3.000	NC_ULS-Set B (auto).4	-0.4	12.0	-25.3	**14.5**	0.4	0.0	28.0
B203	2.250-	NC_ULS-Set B (auto).4	-0.4	12.7	-27.4	-42.1	**-3.7**	-1.2	30.3
B203	0.750-	NC_ULS-Set B (auto).4	-0.4	11.8	-26.3	-42.8	**5.2**	2.2	28.8
B203	2.100	NC_ULS-Set B (auto).38	0.0	-17.0	-12.7	-10.3	-0.9	**-1.8**	21.2
B203	0.900	NC_ULS-Set B (auto).30	-0.1	23.1	-3.0	-2.7	0.6	**2.7**	23.3
B203	1.650	NC_ULS-Set B (auto).4	-0.4	13.0	-29.1	-60.6	-0.6	0.3	**31.9**
B204	0.000	NC_ULS-Set B (auto).17	**-23.2**	0.7	-2.7	0.3	0.2	-0.5	23.4
B204	0.000	NC_ULS-Set B (auto).25	**22.7**	0.4	-1.6	0.5	1.8	0.6	22.7
B204	0.000	NC_ULS-Set B (auto).38	0.1	**-10.9**	-2.2	0.5	-2.5	0.4	11.1
B204	2.850	NC_ULS-Set B (auto).13	-0.1	**14.4**	-5.4	2.7	2.0	0.0	15.4
B204	2.850	NC_ULS-Set B (auto).4	-0.5	5.4	**-16.0**	**8.5**	4.4	-0.4	16.9
B204	0.435	NC_ULS-Set B (auto).29	0.0	12.2	**-0.4**	-9.0	-0.3	0.9	12.2
B204	1.450-	NC_ULS-Set B (auto).4	-0.5	3.0	-12.3	**-64.6**	5.6	2.3	12.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B204	0.000	NC_ULS-Set B (auto).37	0.3	-10.6	-2.3	0.6	**-4.2**	0.7	10.9
B204	0.870	NC_ULS-Set B (auto).4	-0.5	2.0	-8.1	-55.2	**7.9**	1.5	8.3
B204	2.850	NC_ULS-Set B (auto).17	-23.1	2.3	-8.1	4.1	1.9	**-0.9**	24.6
B204	1.730	NC_ULS-Set B (auto).4	-0.5	3.8	-13.5	-60.4	3.5	**2.7**	14.0
B204	2.850	NC_ULS-Set B (auto).9	22.6	3.8	-10.4	5.3	2.2	0.6	**25.2**
B205	0.000	NC_ULS-Set B (auto).17	**-23.1**	2.3	-8.1	4.1	1.9	-0.9	24.6
B205	0.000	NC_ULS-Set B (auto).25	**22.7**	3.3	-8.8	4.5	1.8	0.6	24.5
B205	3.000	NC_ULS-Set B (auto).38	0.0	**-15.8**	-10.9	5.2	0.7	-0.2	19.2
B205	2.100	NC_ULS-Set B (auto).13	-0.1	**23.4**	-9.2	-17.2	-1.6	0.1	25.1
B205	1.650	NC_ULS-Set B (auto).4	-0.4	10.6	**-25.9**	-63.4	0.7	2.0	28.0
B205	0.000	NC_ULS-Set B (auto).30	-0.1	13.6	**-2.0**	1.0	0.6	0.2	13.7
B205	1.500-	NC_ULS-Set B (auto).4	-0.4	10.2	-25.7	**-64.5**	2.3	2.7	27.7
B205	3.000	NC_ULS-Set B (auto).4	-0.4	10.6	-23.1	**13.0**	0.9	0.0	25.4
B205	2.400	NC_ULS-Set B (auto).4	-0.4	11.0	-24.3	-35.8	**-3.1**	-0.7	26.7
B205	0.600	NC_ULS-Set B (auto).4	-0.4	6.8	-20.2	-38.5	**7.9**	4.0	21.3
B205	2.100	NC_ULS-Set B (auto).38	0.0	-13.3	-11.5	-11.2	-0.8	**-4.0**	17.6
B205	0.900	NC_ULS-Set B (auto).13	-0.1	18.7	-8.3	-18.0	3.1	**7.0**	20.4
B205	1.800	NC_ULS-Set B (auto).4	-0.4	10.8	-25.9	-60.8	-0.7	1.3	**28.0**
B206	3.000	NC_ULS-Set B (auto).17	**-25.4**	1.2	-35.9	5.9	3.0	-0.9	44.0
B206	0.000	NC_ULS-Set B (auto).25	**25.2**	0.6	-25.3	3.8	5.1	0.0	35.7
B206	3.000	NC_ULS-Set B (auto).38	0.1	**-18.2**	-24.6	2.2	2.1	-0.4	30.6
B206	3.000	NC_ULS-Set B (auto).29	0.1	**19.5**	-22.6	5.4	1.5	0.0	29.9
B206	3.000	NC_ULS-Set B (auto).4	-0.1	2.4	**-70.8**	**11.7**	5.3	-0.6	**70.8**
B206	0.000	NC_ULS-Set B (auto).30	0.1	12.6	**-7.9**	2.2	1.9	-0.1	14.9
B206	1.500-	NC_ULS-Set B (auto).4	-0.1	3.5	-61.8	**-65.3**	8.9	1.2	61.9
B206	2.700	NC_ULS-Set B (auto).26	24.1	0.7	-24.8	-5.4	**0.2**	0.0	34.6
B206	0.300	NC_ULS-Set B (auto).4	-0.1	0.9	-48.2	-19.9	**12.3**	1.2	48.2
B206	1.800	NC_ULS-Set B (auto).38	0.1	-15.6	-22.3	-19.2	2.3	**-3.0**	27.2
B206	1.200	NC_ULS-Set B (auto).13	0.1	15.3	-23.5	-19.1	4.5	**3.6**	28.1
B207	2.850	NC_ULS-Set B (auto).17	**-25.7**	0.4	-3.8	0.4	-11.8	1.3	26.0
B207	2.850	NC_ULS-Set B (auto).25	**25.0**	0.5	-3.1	0.4	-6.3	1.2	25.2
B207	0.000	NC_ULS-Set B (auto).38	-0.2	**-12.0**	-16.0	1.1	-4.0	0.6	20.0
B207	0.147	NC_ULS-Set B (auto).29	-0.6	**12.9**	-12.9	-0.6	-3.2	0.0	18.3
B207	0.000	NC_ULS-Set B (auto).4	-0.5	1.1	**-44.7**	**6.3**	-11.4	1.2	**44.7**
B207	2.850	NC_ULS-Set B (auto).30	-0.4	11.7	**-2.0**	0.4	-1.8	0.3	11.9
B207	1.475-	NC_ULS-Set B (auto).4	-0.6	0.1	-29.6	**-65.7**	-14.4	-1.0	29.6
B207	2.300	NC_ULS-Set B (auto).4	-0.6	0.1	-14.9	-40.8	**-19.4**	0.7	14.9
B207	0.590	NC_ULS-Set B (auto).26	24.2	0.4	-10.9	-13.2	**-1.6**	0.2	26.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B207	1.180	NC_ULS-Set B (auto).4	-0.6	0.5	-33.4	-62.8	-11.7	**-1.5**	33.4
B207	2.850	NC_ULS-Set B (auto).4	-0.6	0.9	-4.5	0.7	-16.8	**2.3**	4.6
B208	3.000	NC_ULS-Set B (auto).17	**-26.7**	0.0	-44.0	-0.1	4.1	0.6	51.5
B208	0.000	NC_ULS-Set B (auto).9	**26.8**	0.1	-35.2	0.0	7.6	0.7	44.3
B208	3.000	NC_ULS-Set B (auto).38	0.0	**-17.9**	-23.0	-2.0	1.7	0.1	29.2
B208	3.000	NC_ULS-Set B (auto).4	0.1	0.0	**-87.0**	-0.2	6.9	0.7	**87.0**
B208	0.000	NC_ULS-Set B (auto).34	-25.7	0.1	**-13.4**	0.0	3.6	0.7	29.0
B208	1.500-	NC_ULS-Set B (auto).4	0.2	-0.8	-73.5	**-45.0**	12.0	-0.7	73.6
B208	3.000	NC_ULS-Set B (auto).30	0.0	**17.9**	-23.7	**1.9**	2.1	0.2	29.7
B208	2.700	NC_ULS-Set B (auto).26	25.6	0.0	-30.4	-5.9	**0.6**	0.1	39.8
B208	0.300	NC_ULS-Set B (auto).4	0.2	0.4	-56.9	-16.2	**14.6**	-0.1	56.9
B208	1.500-	NC_ULS-Set B (auto).37	0.2	-14.6	-28.6	-13.6	4.8	**-3.3**	32.2
B208	1.800	NC_ULS-Set B (auto).30	0.1	15.5	-20.9	-11.3	2.8	**2.9**	26.0
B209	2.850	NC_ULS-Set B (auto).17	**-27.1**	0.2	-4.5	0.0	-11.6	1.7	27.5
B209	0.000	NC_ULS-Set B (auto).25	**26.5**	0.2	-20.1	0.1	-5.4	0.9	33.2
B209	0.000	NC_ULS-Set B (auto).38	-0.2	**-11.6**	-14.3	-1.4	-4.0	0.4	18.4
B209	1.327	NC_ULS-Set B (auto).13	-0.5	**13.5**	-16.7	-13.6	-7.6	-0.2	21.4
B209	0.000	NC_ULS-Set B (auto).4	-0.5	0.4	**-52.6**	0.2	-14.1	1.6	**52.7**
B209	2.850	NC_ULS-Set B (auto).2	-0.2	0.1	**-2.9**	0.0	-4.0	0.6	3.0
B209	1.475-	NC_ULS-Set B (auto).4	-0.6	4.1	-32.4	**-41.0**	-17.1	-1.3	32.6
B209	0.000	NC_ULS-Set B (auto).13	-0.4	11.6	-25.5	**1.7**	-6.7	0.8	28.0
B209	2.162-	NC_ULS-Set B (auto).4	-0.6	1.7	-19.1	-29.9	**-20.3**	-4.3	19.2
B209	0.737-	NC_ULS-Set B (auto).26	25.6	1.1	-11.6	-10.2	**-2.2**	1.4	28.1
B209	2.025	NC_ULS-Set B (auto).4	-0.6	2.3	-21.9	-33.6	-20.1	**-4.4**	22.0
B209	0.590	NC_ULS-Set B (auto).4	-0.6	2.3	-45.0	-26.7	-12.7	**3.9**	45.1
B210	2.850	NC_ULS-Set B (auto).17	**-25.7**	0.0	-3.9	-0.3	-13.0	-0.9	26.0
B210	0.000	NC_ULS-Set B (auto).25	**24.9**	0.2	-17.9	-2.2	-4.2	-1.0	30.7
B210	0.000	NC_ULS-Set B (auto).38	-0.3	**-12.5**	-8.2	-2.1	-1.8	0.0	14.9
B210	1.327	NC_ULS-Set B (auto).29	-0.4	**12.4**	-16.5	-34.6	-6.0	0.0	20.7
B210	0.000	NC_ULS-Set B (auto).4	-0.6	-0.2	**-45.5**	-6.1	-10.9	-1.1	**45.5**
B210	2.850	NC_ULS-Set B (auto).38	-0.4	-11.5	**-2.0**	-0.4	-2.4	0.2	11.6
B210	1.475-	NC_ULS-Set B (auto).4	-0.7	0.8	-30.7	**-72.3**	-14.4	1.0	30.7
B210	2.850	NC_ULS-Set B (auto).30	-0.3	11.4	-3.0	**-0.1**	-6.0	-0.5	11.8
B210	2.437	NC_ULS-Set B (auto).4	-0.7	0.6	-12.7	-35.2	**-20.4**	-1.2	12.8
B210	0.590	NC_ULS-Set B (auto).26	24.0	-0.1	-10.9	-15.5	**-1.6**	-0.2	26.3
B210	2.850	NC_ULS-Set B (auto).4	-0.7	-0.1	-4.5	-0.5	-18.2	**-2.6**	4.6
B210	1.180	NC_ULS-Set B (auto).4	-0.6	0.4	-34.5	-70.6	-11.6	**1.5**	34.5
B221	2.105	NC_ULS-Set B (auto).18	**-3.4**	-0.6	-2.6	0.5	-1.6	-1.9	4.3

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B221	2.105	NC_ULS-Set B (auto).9	**2.8**	-1.7	-2.2	0.6	1.6	-3.1	3.9
B221	2.105	NC_ULS-Set B (auto).21	1.1	**-6.6**	-3.1	**1.9**	0.3	-2.3	**7.4**
B221	2.105	NC_ULS-Set B (auto).30	1.2	**2.0**	-2.7	-1.2	0.5	-1.3	3.5
B221	2.105	NC_ULS-Set B (auto).15	1.4	-0.1	**-3.9**	-0.5	0.7	-2.3	4.2
B221	0.000	NC_ULS-Set B (auto).26	1.1	0.0	**-0.8**	-0.2	0.4	-0.3	1.3
B221	1.263	NC_ULS-Set B (auto).13	0.9	1.4	-2.9	**-1.7**	1.6	-2.0	3.3
B221	2.105	NC_ULS-Set B (auto).17	-3.0	-1.1	-2.5	0.6	**-1.6**	-2.3	4.1
B221	1.053-	NC_ULS-Set B (auto).13	0.7	1.4	-2.6	-1.7	**1.7**	-2.0	3.0
B221	2.105	NC_ULS-Set B (auto).4	-0.7	-3.8	-2.8	1.3	0.0	**-3.3**	4.8
B221	0.000	NC_ULS-Set B (auto).34	-1.1	0.0	-1.8	0.0	-0.5	**0.8**	2.1
B222	2.105	NC_ULS-Set B (auto).18	**-3.4**	-0.6	-2.6	0.5	-1.6	-1.9	4.3
B222	2.105	NC_ULS-Set B (auto).9	**2.8**	-1.7	-2.2	0.6	1.6	-3.1	3.9
B222	2.105	NC_ULS-Set B (auto).21	1.1	**-6.6**	-3.1	1.9	0.3	-2.3	**7.4**
B222	2.105	NC_ULS-Set B (auto).15	1.4	-0.1	**-3.9**	-0.5	0.7	-2.3	4.2
B222	0.211	NC_ULS-Set B (auto).34	-1.2	-0.5	**-0.9**	0.6	-0.3	-0.7	1.6
B222	2.105	NC_ULS-Set B (auto).30	1.2	**2.0**	-2.7	**-1.2**	0.5	-1.3	3.5
B222	1.263	NC_ULS-Set B (auto).21	0.5	-6.4	-2.7	**2.6**	0.0	-2.0	7.0
B222	2.105	NC_ULS-Set B (auto).17	-3.0	-1.1	-2.5	0.6	**-1.6**	-2.3	4.1
B222	2.105	NC_ULS-Set B (auto).25	2.2	-1.1	-1.2	0.5	**1.6**	-2.9	2.8
B222	2.105	NC_ULS-Set B (auto).4	-0.7	-3.8	-2.8	1.3	0.0	**-3.3**	4.8
B222	0.000	NC_ULS-Set B (auto).29	0.0	-0.2	-1.4	-0.3	0.1	**-0.2**	1.4
B223	2.105	NC_ULS-Set B (auto).17	**-20.2**	-1.7	-2.5	0.1	-1.4	-4.0	**20.4**
B223	2.105	NC_ULS-Set B (auto).25	**19.3**	-3.4	-1.8	0.1	1.5	-4.1	19.7
B223	2.105	NC_ULS-Set B (auto).21	-0.3	**-11.7**	-1.9	1.2	-0.3	-2.8	11.8
B223	2.105	NC_ULS-Set B (auto).30	-0.2	**7.6**	-1.1	-1.9	-0.3	-1.9	7.7
B223	0.421	NC_ULS-Set B (auto).17	-6.9	-0.6	**-2.5**	-1.1	-6.2	-2.0	7.3
B223	0.000	NC_ULS-Set B (auto).26	16.5	0.0	**-0.8**	0.2	4.4	-0.8	16.5
B223	1.263	NC_ULS-Set B (auto).13	2.0	6.4	-1.6	**-3.0**	-2.9	-2.4	6.9
B223	0.000	NC_ULS-Set B (auto).21	2.5	-6.4	-1.9	**1.9**	0.1	-2.0	7.1
B223	1.053-	NC_ULS-Set B (auto).17	-12.4	-0.7	-2.1	-1.9	**-7.2**	-2.2	12.6
B223	0.000	NC_ULS-Set B (auto).25	17.8	0.1	-0.9	0.2	**4.6**	-1.2	17.8
B223	2.105	NC_ULS-Set B (auto).4	-1.0	-6.2	-2.3	-0.4	0.1	**-5.0**	6.7
B223	0.000	NC_ULS-Set B (auto).2	-0.1	-0.2	-1.2	0.1	0.0	**-0.7**	1.3
B224	2.105	NC_ULS-Set B (auto).17	**-20.2**	-1.7	-2.5	0.1	-1.4	-4.0	20.4
B224	2.105	NC_ULS-Set B (auto).25	**19.3**	-3.4	-1.8	0.1	1.5	-4.1	19.7
B224	0.000	NC_ULS-Set B (auto).23	-0.5	**-12.7**	-2.0	1.7	-0.2	-2.5	12.8
B224	0.842	NC_ULS-Set B (auto).17	-20.1	-3.4	**-2.9**	1.8	-0.3	-3.1	20.6
B224	0.000	NC_ULS-Set B (auto).34	-17.1	-2.3	**-1.0**	0.4	-4.6	-2.3	17.3

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B224	2.105	NC_ULS-Set B (auto).30	-0.2	**7.6**	-1.1	**-1.9**	-0.3	-1.9	7.7
B224	0.842	NC_ULS-Set B (auto).21	-0.4	-12.4	-1.9	**2.0**	0.0	-2.8	12.6
B224	0.000	NC_ULS-Set B (auto).17	-18.5	-4.2	-1.7	0.8	**-5.0**	-3.0	19.0
B224	0.842	NC_ULS-Set B (auto).25	10.2	-4.8	-1.7	1.7	**6.9**	-2.1	11.4
B224	2.105	NC_ULS-Set B (auto).4	-1.0	-6.2	-2.3	-0.4	0.1	**-5.0**	6.7
B224	0.000	NC_ULS-Set B (auto).2	-0.2	-2.9	-1.3	0.3	-0.1	**-0.8**	3.2
B224	1.053-	NC_ULS-Set B (auto).17	-20.1	-3.2	-2.8	1.8	0.3	-3.1	**20.6**
B225	0.000	NC_ULS-Set B (auto).23	-0.5	**-12.7**	-2.0	1.7	-0.2	-2.5	12.8
B225	2.850	NC_ULS-Set B (auto).29	5.5	**6.1**	-0.9	-1.7	0.3	-1.8	8.3
B225	0.855	NC_ULS-Set B (auto).17	-14.0	-2.3	**-3.6**	2.1	0.1	-1.6	14.7
B225	0.570	NC_ULS-Set B (auto).26	6.1	-3.0	**-0.8**	1.5	-0.1	-1.7	6.8
B225	2.850	NC_ULS-Set B (auto).30	3.5	6.0	-0.9	**-1.7**	0.2	-1.3	7.0
B225	1.425-	NC_ULS-Set B (auto).21	1.1	-9.2	-2.5	**3.7**	0.0	-2.3	9.6
B225	0.000	NC_ULS-Set B (auto).17	**-18.5**	-4.2	-1.7	0.8	**-5.0**	-3.0	**19.0**
B225	2.850	NC_ULS-Set B (auto).25	**17.8**	0.1	-0.9	0.2	**4.6**	-1.2	17.8
B225	0.855	NC_ULS-Set B (auto).4	-0.7	-8.0	-2.8	2.5	-0.2	**-4.5**	8.5
B225	1.710	NC_ULS-Set B (auto).34	-9.3	-0.7	-1.7	1.5	1.7	**0.0**	9.5
B226	2.122	NC_ULS-Set B (auto).26	**1.9**	-1.3	-0.8	1.5	1.5	0.3	2.4
B226	2.122	NC_ULS-Set B (auto).21	-1.2	**-7.0**	-3.2	2.2	-0.4	2.1	7.8
B226	1.486	NC_ULS-Set B (auto).26	1.4	-0.8	**-0.6**	0.8	0.2	0.2	1.8
B226	2.122	NC_ULS-Set B (auto).30	-1.4	**1.2**	-2.9	**-0.9**	-0.5	1.0	3.4
B226	1.273	NC_ULS-Set B (auto).17	-5.6	-4.3	-6.1	**2.4**	-1.2	-0.6	9.3
B226	2.122	NC_ULS-Set B (auto).17	**-9.3**	-5.4	**-8.1**	1.8	**-1.8**	1.8	**13.4**
B226	2.122	NC_ULS-Set B (auto).25	1.7	-1.7	-1.0	1.7	**1.5**	0.6	2.6
B226	0.849	NC_ULS-Set B (auto).18	-3.9	-2.8	-4.7	2.1	-0.6	**-0.9**	6.7
B226	2.122	NC_ULS-Set B (auto).4	0.6	-4.4	-2.8	1.4	-0.1	**3.2**	5.3
B227	2.089	NC_ULS-Set B (auto).33	**-19.6**	-3.6	-1.8	-1.5	-1.5	2.3	20.0
B227	2.089	NC_ULS-Set B (auto).9	**14.2**	-5.2	2.9	-1.8	1.4	1.9	15.4
B227	2.089	NC_ULS-Set B (auto).21	0.2	**-12.0**	-1.9	0.9	0.3	2.4	12.2
B227	2.089	NC_ULS-Set B (auto).30	0.2	**7.1**	-1.1	-2.5	0.3	1.4	7.2
B227	0.835	NC_ULS-Set B (auto).17	-19.4	-1.3	**-2.5**	1.4	-0.3	2.3	19.6
B227	2.089	NC_ULS-Set B (auto).25	13.6	-4.8	**3.8**	-1.8	1.4	1.5	15.0
B227	2.089	NC_ULS-Set B (auto).29	0.3	6.4	-1.3	**-2.7**	0.5	2.0	6.5
B227	0.835	NC_ULS-Set B (auto).21	-1.8	-8.6	-2.0	**2.3**	1.3	1.7	9.0
B227	0.000	NC_ULS-Set B (auto).33	-18.0	0.2	-0.9	0.2	**-4.7**	0.3	18.0
B227	0.835	NC_ULS-Set B (auto).9	7.9	-2.2	0.1	1.9	**6.8**	3.0	8.2
B227	0.000	NC_ULS-Set B (auto).34	-16.7	0.1	-0.9	0.1	-4.4	**0.1**	16.8
B227	2.089	NC_ULS-Set B (auto).4	0.8	-6.1	-2.2	-0.5	-0.1	**4.8**	6.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B227	2.089	NC_ULS-Set B (auto).17	-19.5	-4.1	-2.3	-1.5	-1.5	2.7	**20.1**
B228	0.418	NC_ULS-Set B (auto).33	**-20.6**	-0.5	-0.9	-0.2	-0.1	1.0	20.6
B228	2.089	NC_ULS-Set B (auto).21	0.2	**-12.0**	-1.9	0.9	0.3	2.4	12.2
B228	0.000	NC_ULS-Set B (auto).30	-0.1	**11.0**	-0.9	-1.1	0.9	-0.4	11.1
B228	2.089	NC_ULS-Set B (auto).25	13.6	-4.8	**3.8**	-1.8	1.4	1.5	15.0
B228	2.089	NC_ULS-Set B (auto).29	0.3	6.4	-1.3	**-2.7**	0.5	2.0	6.5
B228	1.253	NC_ULS-Set B (auto).38	0.0	-11.2	-1.3	**1.2**	0.1	1.3	11.3
B228	2.089	NC_ULS-Set B (auto).17	-19.5	-4.1	**-2.3**	-1.5	**-1.5**	2.7	20.1
B228	1.044-	NC_ULS-Set B (auto).25	16.9	-1.7	1.2	-2.3	**5.4**	1.7	17.1
B228	0.000	NC_ULS-Set B (auto).9	**20.7**	-0.5	-2.2	-0.1	2.8	**-1.9**	**20.8**
B228	2.089	NC_ULS-Set B (auto).4	0.8	-6.1	-2.2	-0.5	-0.1	**4.8**	6.6
B229	1.910	NC_ULS-Set B (auto).17	**-9.3**	-5.8	-8.0	0.7	1.4	1.3	13.6
B229	0.000	NC_ULS-Set B (auto).23	0.5	**-12.6**	-2.1	1.7	0.2	2.3	12.8
B229	0.000	NC_ULS-Set B (auto).30	0.3	**2.9**	-1.3	-1.5	0.1	0.9	3.2
B229	2.122	NC_ULS-Set B (auto).17	-9.3	-5.4	**-8.1**	1.8	-1.8	1.8	13.4
B229	2.122	NC_ULS-Set B (auto).26	1.9	-1.3	**-0.8**	1.5	1.5	0.3	2.4
B229	0.849	NC_ULS-Set B (auto).13	-0.6	0.3	-3.0	**-2.3**	2.7	1.0	3.1
B229	2.122	NC_ULS-Set B (auto).21	-1.2	-7.0	-3.2	**2.2**	-0.4	2.1	7.8
B229	0.000	NC_ULS-Set B (auto).33	-3.9	-4.8	-2.0	1.0	**-4.1**	1.7	6.5
B229	0.849	NC_ULS-Set B (auto).9	11.1	-3.1	-2.1	-0.7	**7.1**	1.4	11.7
B229	1.061-	NC_ULS-Set B (auto).34	-5.7	-4.3	-4.0	-1.4	6.4	**-0.3**	8.2
B229	1.273	NC_ULS-Set B (auto).4	0.6	-7.3	-2.8	1.1	0.2	**3.9**	7.8
B229	0.000	NC_ULS-Set B (auto).9	**18.3**	-4.2	-1.7	0.7	5.0	3.2	**18.9**
B230	2.850	NC_ULS-Set B (auto).23	0.5	**-12.6**	-2.1	1.7	0.2	2.3	12.8
B230	0.000	NC_ULS-Set B (auto).29	-5.6	**6.3**	-0.9	-1.7	-0.3	0.8	8.5
B230	1.995	NC_ULS-Set B (auto).9	13.8	-2.0	**-3.6**	2.1	-0.3	1.9	14.4
B230	2.280	NC_ULS-Set B (auto).34	-6.3	-2.8	**-0.8**	1.5	0.1	2.0	6.9
B230	0.000	NC_ULS-Set B (auto).30	-3.6	6.1	-0.9	**-1.7**	-0.2	0.6	7.2
B230	1.425-	NC_ULS-Set B (auto).21	-1.2	-8.9	-2.5	**3.8**	-0.1	2.4	9.3
B230	0.000	NC_ULS-Set B (auto).33	**-18.0**	0.2	-0.9	0.2	**-4.7**	0.3	18.0
B230	0.855	NC_ULS-Set B (auto).26	7.8	-0.4	-1.1	1.3	-1.4	**-0.1**	7.9
B230	1.995	NC_ULS-Set B (auto).4	0.6	-7.9	-2.8	2.4	0.2	**4.6**	8.4
B230	2.850	NC_ULS-Set B (auto).9	**18.3**	-4.2	-1.7	0.7	**5.0**	3.2	**18.9**
B231	0.000	NC_ULS-Set B (auto).33	**-20.9**	0.6	-1.0	0.2	-1.3	-0.6	21.0
B231	2.850	NC_ULS-Set B (auto).9	**21.4**	3.3	-2.6	2.5	0.5	1.1	21.8
B231	0.000	NC_ULS-Set B (auto).38	0.0	**-10.8**	-1.2	1.0	0.2	-0.1	10.9
B231	2.850	NC_ULS-Set B (auto).13	0.2	**15.2**	-2.2	1.1	0.5	-0.3	15.4
B231	0.000	NC_ULS-Set B (auto).34	-20.1	0.5	**-1.0**	0.2	-1.2	-0.5	20.2

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B231	0.000	NC_ULS-Set B (auto).29	0.0	12.1	-1.2	**-0.7**	0.1	-0.2	12.1
B231	1.522	NC_ULS-Set B (auto).4	0.6	4.3	-6.1	**44.7**	-0.4	-3.7	7.5
B231	0.688-	NC_ULS-Set B (auto).4	0.5	2.0	-4.0	32.1	**-3.7**	-1.8	4.5
B231	2.407	NC_ULS-Set B (auto).4	0.6	7.3	-5.1	26.6	**1.8**	-2.1	8.9
B231	1.670	NC_ULS-Set B (auto).4	0.6	4.9	**-6.1**	43.9	0.2	**-3.8**	7.9
B231	0.000	NC_ULS-Set B (auto).10	20.4	0.7	-2.1	0.0	0.9	**2.0**	20.5
B231	2.260	NC_ULS-Set B (auto).9	21.4	3.4	-3.2	18.0	1.0	-0.9	**21.9**
B232	3.000	NC_ULS-Set B (auto).17	**-21.1**	8.0	-3.9	4.1	-0.4	-1.2	22.9
B232	0.000	NC_ULS-Set B (auto).25	**21.1**	5.7	-2.8	3.0	0.6	1.2	22.1
B232	3.000	NC_ULS-Set B (auto).38	0.0	**-16.6**	-3.2	5.0	-0.1	0.0	16.9
B232	1.500-	NC_ULS-Set B (auto).4	0.1	15.9	**-8.8**	**54.7**	-0.2	-0.8	18.1
B232	0.450	NC_ULS-Set B (auto).30	0.0	22.2	**-0.9**	2.2	0.0	-1.2	22.2
B232	0.000	NC_ULS-Set B (auto).30	0.0	21.8	-1.0	**0.3**	0.6	-0.4	21.9
B232	0.750-	NC_ULS-Set B (auto).4	0.2	14.9	-7.3	42.9	**-2.8**	-1.6	16.6
B232	2.250-	NC_ULS-Set B (auto).4	0.0	16.0	-7.6	43.3	**2.5**	0.4	17.7
B232	1.050	NC_ULS-Set B (auto).13	0.0	25.3	-3.1	16.4	-0.8	**-1.7**	25.5
B232	0.000	NC_ULS-Set B (auto).10	20.3	5.2	-2.9	2.9	0.6	**1.2**	21.1
B232	3.000	NC_ULS-Set B (auto).13	-0.1	**27.3**	-2.5	1.9	0.1	-0.1	**27.4**
B233	3.000	NC_ULS-Set B (auto).17	**-21.2**	7.8	-3.8	4.1	-0.3	-1.2	22.9
B233	0.000	NC_ULS-Set B (auto).25	**21.0**	6.5	-3.1	3.3	0.3	1.1	22.2
B233	0.000	NC_ULS-Set B (auto).38	0.0	**-16.6**	-3.2	5.0	-0.1	0.0	16.9
B233	1.500-	NC_ULS-Set B (auto).4	-0.2	16.6	**-9.0**	**55.2**	0.0	0.1	18.9
B233	0.150	NC_ULS-Set B (auto).30	-0.1	25.1	**-0.9**	1.0	0.0	-0.2	25.1
B233	0.000	NC_ULS-Set B (auto).30	-0.1	25.0	-0.9	**0.3**	0.1	-0.1	25.1
B233	0.750-	NC_ULS-Set B (auto).4	-0.1	16.3	-7.7	43.5	**-2.7**	-1.0	18.0
B233	2.250-	NC_ULS-Set B (auto).4	-0.2	16.2	-7.7	43.5	**2.7**	1.0	17.9
B233	0.000	NC_ULS-Set B (auto).17	-21.1	8.0	-3.9	4.1	-0.4	**-1.2**	22.9
B233	0.000	NC_ULS-Set B (auto).10	20.1	5.9	-3.2	3.2	0.3	**1.1**	21.2
B233	1.500-	NC_ULS-Set B (auto).13	-0.2	**27.6**	-3.5	18.0	0.0	0.0	**27.8**
B234	0.000	NC_ULS-Set B (auto).25	**20.9**	6.6	-3.1	3.4	0.3	1.1	22.1
B234	0.000	NC_ULS-Set B (auto).38	0.0	**-16.6**	-3.2	5.0	0.1	-0.1	16.9
B234	1.500-	NC_ULS-Set B (auto).4	-0.4	15.8	**-8.8**	**54.7**	0.3	0.9	18.1
B234	2.550	NC_ULS-Set B (auto).30	-0.2	22.1	**-0.9**	2.2	0.0	1.2	22.2
B234	3.000	NC_ULS-Set B (auto).30	-0.3	21.8	-1.0	**0.3**	-0.6	0.3	21.8
B234	0.750-	NC_ULS-Set B (auto).4	-0.4	16.0	-7.6	43.3	**-2.5**	-0.4	17.7
B234	2.250-	NC_ULS-Set B (auto).4	-0.5	14.7	-7.3	42.9	**2.8**	1.7	16.4
B234	3.000	NC_ULS-Set B (auto).17	**-21.4**	6.9	-3.5	3.7	-0.6	**-1.3**	22.8
B234	1.950	NC_ULS-Set B (auto).13	-0.3	25.2	-3.1	16.4	0.8	**1.7**	25.4

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B234	0.000	NC_ULS-Set B (auto).13	-0.2	**27.3**	-2.5	1.9	-0.1	0.0	**27.4**
B235	3.000	NC_ULS-Set B (auto).17	**-21.7**	3.3	-2.6	2.5	-0.5	-1.2	22.1
B235	0.000	NC_ULS-Set B (auto).25	**20.8**	6.4	-3.2	3.3	0.1	1.1	22.0
B235	0.000	NC_ULS-Set B (auto).38	-0.1	**-14.3**	-3.0	4.5	0.3	-0.3	14.6
B235	1.350	NC_ULS-Set B (auto).4	-0.7	12.2	**-7.9**	52.7	0.0	3.0	14.5
B235	0.000	NC_ULS-Set B (auto).30	-0.3	21.8	**-1.0**	0.3	-0.6	0.3	21.8
B235	3.000	NC_ULS-Set B (auto).30	-0.4	13.8	-1.1	**0.2**	-0.6	0.2	13.8
B235	1.500-	NC_ULS-Set B (auto).4	-0.8	11.7	-7.8	**53.0**	0.8	3.3	14.1
B235	0.600	NC_ULS-Set B (auto).4	-0.7	13.7	-6.8	37.1	**-2.1**	1.0	15.3
B235	2.250-	NC_ULS-Set B (auto).4	-0.9	9.0	-5.9	40.8	**3.1**	3.4	10.8
B235	1.200	NC_ULS-Set B (auto).38	-0.1	-12.4	-3.0	9.2	-0.1	**-2.3**	12.8
B235	1.650	NC_ULS-Set B (auto).13	-0.4	19.1	-3.3	17.4	0.7	**4.3**	19.3
B235	0.000	NC_ULS-Set B (auto).13	-0.4	**23.9**	-2.5	1.8	-0.6	0.3	**24.0**
B236	0.000	NC_ULS-Set B (auto).17	**-21.7**	3.3	-2.6	2.5	-0.5	-1.2	22.1
B236	2.850	NC_ULS-Set B (auto).25	**20.7**	0.5	-1.0	0.2	1.3	0.5	20.8
B236	2.850	NC_ULS-Set B (auto).38	0.0	**-10.7**	-1.2	0.9	-0.2	0.0	10.8
B236	0.000	NC_ULS-Set B (auto).13	-0.5	**15.0**	-2.2	1.2	-0.6	0.2	15.2
B236	1.260	NC_ULS-Set B (auto).4	-0.9	4.7	**-6.3**	44.4	0.2	**3.7**	7.9
B236	2.850	NC_ULS-Set B (auto).26	19.9	0.4	**-0.9**	0.2	1.2	0.5	19.9
B236	2.850	NC_ULS-Set B (auto).30	-0.3	11.7	-1.3	**-0.6**	-0.2	0.1	11.8
B236	1.400-	NC_ULS-Set B (auto).4	-0.9	4.1	-6.2	**44.8**	1.0	3.6	7.5
B236	0.560	NC_ULS-Set B (auto).4	-0.9	6.9	-5.4	30.8	**-1.9**	2.3	8.8
B236	2.125-	NC_ULS-Set B (auto).4	-0.9	2.0	-4.2	33.3	**3.6**	2.3	4.7
B236	2.850	NC_ULS-Set B (auto).17	-21.5	0.8	-2.3	0.1	-1.0	**-2.1**	21.7
B236	0.560	NC_ULS-Set B (auto).17	-21.6	3.3	-3.2	17.5	-1.2	0.8	**22.1**
B238	3.000	NC_ULS-Set B (auto).17	**-21.0**	7.7	-3.9	4.0	-0.2	-1.2	22.7
B238	0.000	NC_ULS-Set B (auto).9	**21.4**	3.3	-2.6	2.5	0.5	1.1	21.8
B238	3.000	NC_ULS-Set B (auto).38	0.0	**-14.4**	-3.0	4.5	-0.3	0.2	14.7
B238	1.650	NC_ULS-Set B (auto).4	0.4	12.3	**-7.9**	52.7	0.0	-2.9	14.6
B238	3.000	NC_ULS-Set B (auto).30	0.0	21.8	**-1.0**	0.3	0.6	-0.4	21.9
B238	0.000	NC_ULS-Set B (auto).30	0.1	13.9	-1.1	**0.2**	0.5	-0.3	14.0
B238	1.500-	NC_ULS-Set B (auto).4	0.4	11.9	-7.8	**53.1**	-0.8	-3.1	14.2
B238	0.750-	NC_ULS-Set B (auto).4	0.5	9.3	-6.0	40.8	**-3.1**	-3.3	11.1
B238	2.400	NC_ULS-Set B (auto).4	0.3	13.8	-6.7	37.1	**2.1**	-1.0	15.4
B238	1.350	NC_ULS-Set B (auto).13	0.1	19.2	-3.3	17.3	-0.7	**-4.2**	19.5
B238	1.800	NC_ULS-Set B (auto).38	0.0	-12.5	-3.0	9.2	0.1	**2.3**	12.8
B238	3.000	NC_ULS-Set B (auto).13	0.0	**23.9**	-2.5	1.8	0.6	-0.4	**24.1**
B239	3.000	NC_ULS-Set B (auto).17	**-21.0**	-7.7	-3.9	-4.0	-0.1	1.1	22.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B239	0.000	NC_ULS-Set B (auto).9	**21.3**	-2.9	-2.7	-2.7	0.5	-1.0	21.7
B239	3.000	NC_ULS-Set B (auto).21	0.1	**-23.9**	-2.5	-1.8	0.6	0.4	**24.0**
B239	3.000	NC_ULS-Set B (auto).30	0.0	**14.4**	-3.0	-4.5	-0.3	-0.3	14.7
B239	1.650	NC_ULS-Set B (auto).4	0.4	-11.8	**-8.0**	38.8	0.0	3.1	14.3
B239	3.000	NC_ULS-Set B (auto).38	0.0	-21.8	**-1.0**	-0.3	0.6	0.4	21.8
B239	3.000	NC_ULS-Set B (auto).4	0.2	-13.8	-5.8	**-8.0**	0.2	0.1	15.0
B239	1.500-	NC_ULS-Set B (auto).4	0.4	-11.3	-7.9	**39.4**	-0.8	3.4	13.8
B239	0.750-	NC_ULS-Set B (auto).4	0.5	-8.6	-6.1	28.3	**-3.0**	3.6	10.5
B239	2.400	NC_ULS-Set B (auto).4	0.3	-13.5	-6.8	22.0	**2.2**	1.2	15.1
B239	1.800	NC_ULS-Set B (auto).30	0.0	12.5	-3.1	1.3	0.1	**-2.1**	12.9
B239	1.350	NC_ULS-Set B (auto).21	0.2	-18.8	-3.3	14.4	-0.7	**4.5**	19.1
B240	3.000	NC_ULS-Set B (auto).17	**-21.1**	-8.0	-3.9	-4.1	-0.3	1.1	22.9
B240	0.000	NC_ULS-Set B (auto).25	**21.1**	-5.6	-2.8	-3.0	0.6	-1.1	22.0
B240	3.000	NC_ULS-Set B (auto).21	-0.1	**-27.2**	-2.5	-1.9	0.1	0.1	**27.4**
B240	3.000	NC_ULS-Set B (auto).30	0.0	**16.6**	-3.2	-5.0	-0.1	0.0	16.9
B240	1.500-	NC_ULS-Set B (auto).4	0.1	-15.7	**-8.8**	**37.8**	-0.3	0.8	18.0
B240	0.450	NC_ULS-Set B (auto).38	0.0	-22.2	**-0.9**	1.6	0.1	1.2	22.2
B240	3.000	NC_ULS-Set B (auto).4	-0.1	-15.6	-6.2	**-8.9**	0.0	0.1	16.8
B240	0.750-	NC_ULS-Set B (auto).4	0.2	-14.7	-7.3	26.4	**-2.8**	1.7	16.4
B240	2.250-	NC_ULS-Set B (auto).4	0.0	-15.9	-7.6	26.0	**2.5**	-0.4	17.6
B240	0.000	NC_ULS-Set B (auto).10	19.9	-5.0	-2.9	-2.9	0.5	**-1.1**	20.7
B240	1.050	NC_ULS-Set B (auto).21	0.0	-25.2	-3.1	12.8	-0.8	**1.7**	25.4
B241	3.000	NC_ULS-Set B (auto).17	**-21.2**	-7.8	-3.8	-4.1	-0.3	1.1	23.0
B241	0.000	NC_ULS-Set B (auto).25	**20.9**	-6.5	-3.1	-3.4	0.3	-1.0	22.1
B241	1.500-	NC_ULS-Set B (auto).21	-0.1	**-27.6**	-3.4	14.2	0.0	0.0	**27.8**
B241	0.000	NC_ULS-Set B (auto).30	0.0	**16.6**	-3.2	-5.0	-0.1	0.0	16.9
B241	1.500-	NC_ULS-Set B (auto).4	-0.2	-16.6	**-9.0**	**37.4**	0.0	0.0	18.9
B241	2.850	NC_ULS-Set B (auto).38	-0.2	-25.0	**-0.9**	0.4	0.0	-0.2	25.0
B241	0.000	NC_ULS-Set B (auto).4	-0.1	-15.6	-6.2	**-8.9**	0.0	0.1	16.8
B241	0.750-	NC_ULS-Set B (auto).4	-0.1	-16.2	-7.7	25.8	**-2.7**	1.0	17.9
B241	2.250-	NC_ULS-Set B (auto).4	-0.3	-16.2	-7.7	25.8	**2.7**	-1.0	17.9
B241	3.000	NC_ULS-Set B (auto).10	19.6	-6.1	-3.2	-3.2	0.3	**-1.0**	20.7
B241	0.000	NC_ULS-Set B (auto).18	-19.9	-6.0	-3.2	-3.2	-0.3	**1.1**	21.1
B242	3.000	NC_ULS-Set B (auto).17	**-21.4**	-6.8	-3.5	-3.7	-0.6	**1.2**	22.7
B242	0.000	NC_ULS-Set B (auto).25	**20.8**	-6.6	-3.1	-3.4	0.3	-1.0	22.1
B242	0.000	NC_ULS-Set B (auto).21	-0.2	**-27.3**	-2.5	-1.9	-0.1	0.0	**27.4**
B242	0.000	NC_ULS-Set B (auto).30	-0.1	**16.6**	-3.2	-5.0	0.1	0.1	16.9
B242	1.500-	NC_ULS-Set B (auto).4	-0.5	-15.8	**-8.8**	**37.9**	0.3	-0.9	18.0

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B242	2.410	NC_ULS-Set B (auto).38	-0.3	-22.3	**-0.9**	2.1	0.0	-1.4	22.4
B242	0.000	NC_ULS-Set B (auto).4	-0.3	-15.6	-6.2	**-8.9**	-0.1	0.1	16.8
B242	0.600	NC_ULS-Set B (auto).4	-0.4	-15.9	-7.2	20.9	**-2.5**	0.5	17.5
B242	2.150-	NC_ULS-Set B (auto).4	-0.5	-14.9	-7.6	29.3	**2.5**	-1.7	16.7
B242	2.280	NC_ULS-Set B (auto).4	-0.5	-14.7	-7.2	25.5	2.5	**-1.7**	16.4
B243	3.000	NC_ULS-Set B (auto).17	**-21.7**	-3.0	-2.7	-2.7	-0.5	1.1	22.0
B243	0.000	NC_ULS-Set B (auto).25	**20.7**	-6.5	-3.2	-3.3	0.1	-1.0	21.9
B243	0.000	NC_ULS-Set B (auto).21	-0.3	**-23.9**	-2.5	-1.8	-0.6	-0.3	**24.0**
B243	0.000	NC_ULS-Set B (auto).30	-0.1	**14.3**	-3.0	-4.5	0.3	0.3	14.6
B243	1.350	NC_ULS-Set B (auto).4	-0.8	-12.0	**-7.9**	38.8	0.0	-3.2	14.4
B243	0.000	NC_ULS-Set B (auto).38	-0.3	-21.8	**-1.0**	-0.3	-0.6	-0.3	21.8
B243	0.000	NC_ULS-Set B (auto).4	-0.6	-13.9	-5.8	**-8.0**	-0.3	0.1	15.1
B243	1.500-	NC_ULS-Set B (auto).4	-0.8	-11.5	-7.9	**39.4**	0.9	-3.5	14.0
B243	0.600	NC_ULS-Set B (auto).4	-0.7	-13.7	-6.8	22.0	**-2.2**	-1.1	15.3
B243	2.250-	NC_ULS-Set B (auto).4	-0.9	-8.7	-6.0	28.3	**3.1**	-3.6	10.6
B243	1.650	NC_ULS-Set B (auto).21	-0.4	-18.9	-3.3	14.4	0.7	**-4.5**	19.2
B243	1.200	NC_ULS-Set B (auto).30	-0.1	12.4	-3.1	1.3	-0.1	**2.2**	12.8
B244	0.000	NC_ULS-Set B (auto).17	**-21.7**	-3.0	-2.7	-2.7	-0.5	1.1	22.0
B244	2.850	NC_ULS-Set B (auto).25	**20.7**	-0.4	-1.0	-0.2	1.5	-0.1	20.7
B244	0.000	NC_ULS-Set B (auto).21	-0.5	**-14.7**	-2.3	-1.4	-0.7	-0.2	14.9
B244	2.560	NC_ULS-Set B (auto).30	-0.1	**11.0**	-1.3	0.6	0.3	-0.1	11.1
B244	2.850	NC_ULS-Set B (auto).26	19.5	-0.3	**-0.9**	-0.2	1.2	-0.4	19.6
B244	0.000	NC_ULS-Set B (auto).4	-1.0	-7.1	-4.6	**-5.7**	-0.7	0.2	8.5
B244	1.400-	NC_ULS-Set B (auto).4	-0.9	-3.7	-6.5	**38.8**	1.2	-3.6	7.5
B244	0.560	NC_ULS-Set B (auto).4	-1.0	-6.5	-5.6	21.7	**-2.1**	-2.3	8.7
B244	2.270	NC_ULS-Set B (auto).4	-0.9	-1.2	-3.8	25.7	**3.8**	-1.9	4.1
B244	1.260	NC_ULS-Set B (auto).4	-0.9	-4.2	**-6.6**	37.9	0.3	**-3.7**	7.9
B244	2.850	NC_ULS-Set B (auto).17	-21.5	-0.6	-2.4	-0.1	-0.8	**2.1**	21.7
B244	0.700-	NC_ULS-Set B (auto).17	-21.6	-2.9	-3.5	16.1	-1.2	-1.2	**22.1**
B245	2.850	NC_ULS-Set B (auto).17	**-24.3**	0.5	-3.2	0.5	-9.6	0.9	24.5
B245	0.000	NC_ULS-Set B (auto).25	**23.9**	0.9	-12.6	3.7	-2.6	1.2	27.0
B245	1.475-	NC_ULS-Set B (auto).38	-0.1	**-11.6**	-9.3	-18.7	-3.5	-0.1	14.9
B245	0.147	NC_ULS-Set B (auto).29	-0.2	**13.7**	-8.0	-0.3	-1.4	0.0	15.9
B245	0.000	NC_ULS-Set B (auto).4	-0.1	3.1	**-31.5**	**9.4**	-7.0	1.2	**31.7**
B245	2.850	NC_ULS-Set B (auto).30	-0.3	11.9	**-1.3**	0.4	-1.3	0.2	12.0
B245	1.475-	NC_ULS-Set B (auto).4	-0.4	1.3	-23.2	**-62.7**	-10.0	-1.9	23.2
B245	2.437	NC_ULS-Set B (auto).4	-0.6	0.6	-9.8	-31.5	**-15.5**	0.5	9.8
B245	0.442	NC_ULS-Set B (auto).30	-0.2	13.3	-4.2	-0.8	**-0.7**	-0.4	13.9

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B245	1.180	NC_ULS-Set B (auto).4	-0.3	2.0	-25.7	-59.8	-7.1	**-2.3**	25.7
B245	2.850	NC_ULS-Set B (auto).4	-0.7	1.2	-3.6	0.6	-13.6	**2.4**	3.8
B246	2.850	NC_ULS-Set B (auto).17	**-26.8**	0.2	-4.4	0.1	-14.1	2.2	27.2
B246	0.000	NC_ULS-Set B (auto).25	**25.3**	0.1	-19.8	0.6	-5.1	1.4	32.1
B246	0.000	NC_ULS-Set B (auto).38	-0.3	**-12.0**	-16.2	-0.7	-4.1	0.8	20.2
B246	0.590	NC_ULS-Set B (auto).29	-0.7	**12.6**	-15.3	-9.7	-3.8	0.1	19.8
B246	0.000	NC_ULS-Set B (auto).4	-1.3	0.3	**-51.3**	2.0	-13.2	2.5	**51.3**
B246	2.850	NC_ULS-Set B (auto).30	-0.6	11.6	**-2.6**	0.2	-3.1	0.6	11.9
B246	1.475-	NC_ULS-Set B (auto).4	-1.5	1.1	-34.0	**-66.4**	-16.1	-1.6	34.1
B246	0.000	NC_ULS-Set B (auto).13	-0.8	12.0	-22.4	**2.4**	-5.5	1.1	25.4
B246	2.300	NC_ULS-Set B (auto).4	-1.7	-0.1	-17.5	-41.4	**-22.1**	-0.6	17.6
B246	0.737-	NC_ULS-Set B (auto).26	24.4	0.4	-11.6	-16.0	**-2.0**	0.1	27.1
B246	1.750	NC_ULS-Set B (auto).4	-1.6	0.6	-29.1	-63.0	-19.1	**-1.8**	29.2
B246	2.850	NC_ULS-Set B (auto).4	-1.8	0.6	-5.5	0.3	-19.9	**4.0**	5.8
B247	2.850	NC_ULS-Set B (auto).17	**-27.0**	0.1	-4.4	-0.2	-14.2	-2.6	27.4
B247	0.000	NC_ULS-Set B (auto).25	**25.4**	0.4	-19.9	-0.5	-5.1	-1.4	32.3
B247	0.590	NC_ULS-Set B (auto).38	-0.6	**-12.2**	-9.8	-4.6	-2.6	0.0	15.6
B247	1.887	NC_ULS-Set B (auto).29	-0.8	**12.4**	-12.4	-29.0	-8.8	0.1	17.6
B247	0.000	NC_ULS-Set B (auto).4	-1.4	0.6	**-51.7**	-1.8	-13.1	-2.5	**51.7**
B247	2.850	NC_ULS-Set B (auto).38	-0.7	-11.3	**-2.6**	-0.3	-3.1	-1.1	11.6
B247	1.475-	NC_ULS-Set B (auto).4	-1.6	-0.4	-34.3	**-68.5**	-16.3	1.5	34.3
B247	0.000	NC_ULS-Set B (auto).30	-0.4	12.3	-16.7	**0.9**	-4.1	-0.8	20.7
B247	2.300	NC_ULS-Set B (auto).4	-1.8	0.8	-17.6	-42.7	**-22.3**	0.7	17.7
B247	0.737-	NC_ULS-Set B (auto).26	24.5	-0.3	-11.6	-16.6	**-2.0**	-0.4	27.1
B247	2.850	NC_ULS-Set B (auto).4	-1.9	0.2	-5.5	-0.5	-20.1	**-3.7**	5.8
B247	1.750	NC_ULS-Set B (auto).4	-1.7	0.0	-29.3	-64.9	-19.3	**1.7**	29.4
B248	2.850	NC_ULS-Set B (auto).17	**-24.4**	-0.1	-3.2	-0.6	-9.6	-1.4	24.6
B248	0.000	NC_ULS-Set B (auto).25	**23.9**	-0.4	-13.0	-3.7	-2.4	-1.2	27.2
B248	0.147	NC_ULS-Set B (auto).37	-0.2	**-13.1**	-8.7	-6.5	-1.3	-0.1	15.7
B248	2.025	NC_ULS-Set B (auto).29	-0.5	**12.1**	-9.2	-28.2	-7.5	0.0	15.2
B248	0.000	NC_ULS-Set B (auto).4	-0.2	-2.2	**-32.4**	-9.4	-6.7	-1.1	**32.4**
B248	2.850	NC_ULS-Set B (auto).38	-0.4	-11.6	**-1.4**	-0.4	-1.3	-0.7	11.7
B248	1.327	NC_ULS-Set B (auto).4	-0.4	-0.7	-25.1	**-72.7**	-8.7	2.2	25.1
B248	2.850	NC_ULS-Set B (auto).30	-0.3	11.3	-2.7	**-0.2**	-4.6	-1.4	11.7
B248	2.300	NC_ULS-Set B (auto).4	-0.6	0.2	-12.2	-44.4	**-15.9**	-0.1	12.2
B248	0.295	NC_ULS-Set B (auto).38	-0.2	-13.0	-4.6	-3.6	**-0.7**	0.1	13.8
B248	2.850	NC_ULS-Set B (auto).15	-0.7	7.8	-3.5	-0.4	-8.0	**-2.4**	8.6
B248	1.180	NC_ULS-Set B (auto).4	-0.4	-1.1	-26.2	-71.4	-7.4	**2.3**	26.3

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B249	3.000	NC_ULS-Set B (auto).17	**-24.2**	-3.1	-24.3	-7.9	1.5	1.0	34.4
B249	3.000	NC_ULS-Set B (auto).25	**23.8**	-3.0	-22.7	-7.6	0.6	-0.6	33.0
B249	3.000	NC_ULS-Set B (auto).21	0.0	**-21.1**	-17.7	-7.0	0.7	0.0	27.5
B249	3.000	NC_ULS-Set B (auto).30	0.0	**17.2**	-19.0	-4.5	1.4	0.3	25.6
B249	3.000	NC_ULS-Set B (auto).4	-0.3	-6.4	**-47.7**	-15.7	2.9	0.5	**48.1**
B249	1.500-	NC_ULS-Set B (auto).4	-0.3	-6.2	-43.3	**-86.9**	5.3	-2.4	43.7
B249	0.000	NC_ULS-Set B (auto).38	0.0	-13.0	**-4.8**	**-2.0**	0.7	0.1	13.8
B249	2.400	NC_ULS-Set B (auto).26	22.7	-2.1	-16.8	-21.9	**-0.1**	0.1	28.3
B249	0.600	NC_ULS-Set B (auto).4	-0.3	-3.3	-37.0	-58.3	**8.1**	-3.2	37.1
B249	1.200	NC_ULS-Set B (auto).21	0.0	-16.3	-15.3	-29.0	2.5	**-4.3**	22.3
B249	1.800	NC_ULS-Set B (auto).30	0.0	14.9	-17.7	-24.8	1.4	**2.6**	23.1
B250	3.000	NC_ULS-Set B (auto).17	**-25.9**	0.0	-42.5	-2.1	3.9	1.1	49.7
B250	0.000	NC_ULS-Set B (auto).9	**26.4**	0.1	-34.4	-1.3	7.0	0.8	43.4
B250	3.000	NC_ULS-Set B (auto).38	0.1	**-18.5**	-19.2	-2.8	1.4	0.2	26.7
B250	3.000	NC_ULS-Set B (auto).30	0.1	**18.4**	-25.8	0.6	2.3	0.4	31.7
B250	3.000	NC_ULS-Set B (auto).4	0.4	-0.2	**-83.8**	-4.2	6.7	1.1	**83.8**
B250	0.000	NC_ULS-Set B (auto).38	0.3	-11.9	**-11.4**	-1.8	2.7	0.4	16.5
B250	1.500-	NC_ULS-Set B (auto).4	0.6	-1.6	-72.0	**-77.3**	11.2	-1.1	72.0
B250	0.000	NC_ULS-Set B (auto).30	0.2	12.2	-16.6	**0.9**	4.1	0.7	20.6
B250	2.700	NC_ULS-Set B (auto).26	25.0	0.0	-29.3	-10.8	**0.5**	0.0	38.5
B250	0.600	NC_ULS-Set B (auto).4	0.8	0.2	-60.1	-49.8	**14.4**	-1.9	60.1
B250	1.200	NC_ULS-Set B (auto).21	0.5	-14.0	-30.0	-26.5	5.6	**-3.6**	33.1
B250	1.800	NC_ULS-Set B (auto).30	0.1	15.8	-23.3	-20.2	2.6	**2.9**	28.1
B251	3.000	NC_ULS-Set B (auto).17	**-25.7**	0.1	-42.4	2.1	4.0	-1.1	49.6
B251	0.000	NC_ULS-Set B (auto).9	**26.3**	0.0	-34.2	1.4	7.0	-0.9	43.1
B251	3.000	NC_ULS-Set B (auto).38	0.1	**-18.4**	-25.8	-0.6	2.4	-0.5	31.7
B251	3.000	NC_ULS-Set B (auto).30	0.1	**18.5**	-19.2	2.8	1.4	-0.2	26.7
B251	3.000	NC_ULS-Set B (auto).4	0.4	0.2	**-83.8**	**4.2**	6.9	-1.2	**83.8**
B251	0.000	NC_ULS-Set B (auto).30	0.3	12.1	**-11.3**	1.9	2.7	-0.5	16.5
B251	1.500-	NC_ULS-Set B (auto).4	0.7	1.8	-71.7	**-71.2**	11.3	1.0	71.7
B251	2.700	NC_ULS-Set B (auto).26	25.0	0.0	-29.3	-7.9	**0.5**	-0.1	38.5
B251	0.600	NC_ULS-Set B (auto).4	0.8	0.2	-59.7	-45.1	**14.5**	1.8	59.7
B251	1.800	NC_ULS-Set B (auto).38	0.2	-15.7	-23.1	-21.7	2.7	**-3.0**	27.9
B251	1.200	NC_ULS-Set B (auto).13	0.4	14.2	-29.8	-20.9	5.8	**3.5**	33.0
B252	3.000	NC_ULS-Set B (auto).17	**-24.1**	3.2	-24.3	7.9	1.7	-1.0	34.4
B252	3.000	NC_ULS-Set B (auto).25	**23.8**	3.0	-22.7	7.6	0.8	0.6	33.0
B252	3.000	NC_ULS-Set B (auto).38	0.0	**-17.2**	-19.0	4.5	1.6	-0.3	25.6
B252	3.000	NC_ULS-Set B (auto).13	-0.1	**21.1**	-17.7	7.0	1.0	0.0	27.5

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B252	3.000	NC_ULS-Set B (auto).4	-0.3	6.4	**-47.7**	**15.7**	3.2	-0.5	**48.1**
B252	0.000	NC_ULS-Set B (auto).30	-0.1	13.2	**-4.5**	1.9	0.8	-0.1	13.9
B252	1.500-	NC_ULS-Set B (auto).4	-0.3	6.5	-42.9	**-61.8**	5.6	2.1	43.4
B252	2.400	NC_ULS-Set B (auto).26	22.9	2.1	-16.8	-11.5	**0.0**	-0.1	28.4
B252	0.600	NC_ULS-Set B (auto).4	-0.3	3.8	-36.3	-36.9	**8.3**	3.1	36.5
B252	1.800	NC_ULS-Set B (auto).38	0.0	-14.8	-17.5	-17.2	1.6	**-2.8**	22.9
B252	1.200	NC_ULS-Set B (auto).13	-0.1	16.6	-14.8	-18.6	2.8	**4.0**	22.3
B253	0.000	NC_ULS-Set B (auto).17	**-23.0**	-1.9	-8.4	-4.2	0.8	0.7	24.6
B253	0.000	NC_ULS-Set B (auto).25	**22.5**	-3.2	-9.1	-4.7	0.7	-0.9	24.5
B253	2.100	NC_ULS-Set B (auto).21	-0.1	**-23.5**	-8.9	-25.3	-1.4	0.0	25.1
B253	3.000	NC_ULS-Set B (auto).30	-0.1	**15.8**	-10.9	-5.2	0.9	0.2	19.2
B253	1.650	NC_ULS-Set B (auto).4	-0.4	-10.7	**-25.4**	-85.4	0.8	-2.1	27.6
B253	1.500-	NC_ULS-Set B (auto).4	-0.5	-10.3	-25.2	**-86.1**	2.3	-2.8	27.2
B253	0.000	NC_ULS-Set B (auto).38	-0.1	-13.4	**-2.2**	**-1.1**	0.0	-0.4	13.6
B253	2.400	NC_ULS-Set B (auto).4	-0.4	-11.0	-24.1	-60.1	**-2.7**	0.8	26.5
B253	0.750-	NC_ULS-Set B (auto).4	-0.5	-7.2	-21.1	-66.0	**7.1**	-4.6	22.3
B253	0.900	NC_ULS-Set B (auto).21	-0.1	-18.6	-8.0	-24.7	2.8	**-7.3**	20.3
B253	2.100	NC_ULS-Set B (auto).30	-0.1	13.4	-11.1	-20.5	-0.5	**3.9**	17.4
B253	1.800	NC_ULS-Set B (auto).4	-0.4	-10.9	-25.4	-83.3	-0.5	-1.4	**27.7**
B254	2.122	NC_ULS-Set B (auto).26	**1.7**	-0.5	-0.8	0.7	1.5	-1.1	2.0
B254	2.122	NC_ULS-Set B (auto).38	-0.7	**-3.0**	-2.2	1.4	-0.3	-0.8	3.8
B254	2.122	NC_ULS-Set B (auto).14	-0.2	**5.9**	-1.9	-2.0	0.0	-1.8	6.2
B254	1.486	NC_ULS-Set B (auto).26	1.2	0.1	**-0.6**	-0.1	0.2	-1.1	1.4
B254	1.486	NC_ULS-Set B (auto).14	-0.1	5.7	-1.9	**-2.3**	-0.1	-2.0	6.0
B254	2.122	NC_ULS-Set B (auto).37	-1.2	-3.0	-3.0	**1.5**	-0.5	-0.9	4.4
B254	2.122	NC_ULS-Set B (auto).17	**-9.5**	-1.9	**-8.3**	0.5	**-1.8**	-1.1	**12.7**
B254	2.122	NC_ULS-Set B (auto).25	1.6	-0.2	-1.0	0.7	**1.5**	-1.2	1.9
B254	2.122	NC_ULS-Set B (auto).4	0.6	3.8	-2.7	-1.2	-0.1	**-3.3**	4.7
B254	0.000	NC_ULS-Set B (auto).37	0.1	0.0	-1.3	0.4	-0.1	**-0.2**	1.3
B255	2.089	NC_ULS-Set B (auto).33	**-19.5**	2.2	-1.8	-1.7	-1.5	-2.0	19.7
B255	2.089	NC_ULS-Set B (auto).9	**14.9**	0.1	2.4	-2.0	1.4	-2.7	15.1
B255	2.089	NC_ULS-Set B (auto).38	0.2	**-7.3**	-1.0	1.5	0.1	-1.2	7.3
B255	2.089	NC_ULS-Set B (auto).13	0.1	**12.3**	-1.8	-1.7	0.2	-2.2	12.4
B255	0.835	NC_ULS-Set B (auto).17	-19.3	1.1	**-2.4**	0.7	-0.3	-1.9	19.4
B255	2.089	NC_ULS-Set B (auto).25	14.3	-0.7	**3.3**	-2.0	1.4	-2.3	14.7
B255	0.000	NC_ULS-Set B (auto).13	-1.7	6.7	-1.8	**-2.0**	-0.1	-1.8	7.2
B255	1.044-	NC_ULS-Set B (auto).22	-1.1	-6.1	-1.4	**2.1**	1.2	-1.7	6.3
B255	0.000	NC_ULS-Set B (auto).33	-17.8	0.0	-0.9	-0.2	**-4.6**	-2.4	17.8

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B255	0.835	NC_ULS-Set B (auto).9	8.1	-0.4	-0.1	1.3	**7.0**	0.2	8.1
B255	2.089	NC_ULS-Set B (auto).4	0.8	6.6	-2.2	0.1	-0.1	**-4.8**	6.9
B255	0.627	NC_ULS-Set B (auto).26	6.6	-0.6	-0.2	1.2	6.2	**1.0**	6.6
B255	2.089	NC_ULS-Set B (auto).17	-19.5	2.8	-2.2	-1.7	-1.5	-2.4	**19.8**
B256	1.910	NC_ULS-Set B (auto).17	**-9.6**	-1.7	-8.2	-0.7	1.5	-1.9	12.7
B256	1.486	NC_ULS-Set B (auto).38	-0.6	**-3.1**	-2.1	0.7	0.7	-0.8	3.8
B256	0.000	NC_ULS-Set B (auto).15	0.4	**12.8**	-2.0	-1.8	0.1	-2.1	13.0
B256	2.122	NC_ULS-Set B (auto).17	-9.5	-1.9	**-8.3**	0.5	-1.8	-1.1	12.7
B256	2.122	NC_ULS-Set B (auto).26	1.7	-0.5	**-0.8**	0.7	1.5	-1.1	2.0
B256	2.122	NC_ULS-Set B (auto).37	-1.2	-3.0	-3.0	**1.5**	-0.5	-0.9	4.4
B256	0.000	NC_ULS-Set B (auto).33	-3.9	4.8	-1.9	-1.0	**-4.1**	-1.4	6.5
B256	1.061-	NC_ULS-Set B (auto).17	-6.4	1.5	-5.0	-3.5	**7.2**	-3.5	8.2
B256	0.849	NC_ULS-Set B (auto).17	-5.3	2.5	-3.9	**-3.6**	6.6	**-3.5**	7.1
B256	0.000	NC_ULS-Set B (auto).26	17.4	2.5	-1.0	-0.4	4.7	**1.3**	17.6
B256	0.000	NC_ULS-Set B (auto).9	**18.3**	4.4	-1.7	-0.8	5.0	1.0	**18.9**
B257	0.000	NC_ULS-Set B (auto).38	-2.3	**-5.9**	-0.8	1.7	-0.1	-1.0	6.4
B257	2.850	NC_ULS-Set B (auto).15	0.4	**12.8**	-2.0	-1.8	0.1	-2.1	13.0
B257	1.995	NC_ULS-Set B (auto).9	13.8	4.1	**-3.5**	0.9	-0.2	-1.5	14.8
B257	0.570	NC_ULS-Set B (auto).26	6.3	0.3	**-0.8**	0.6	-0.4	-1.2	6.3
B257	2.850	NC_ULS-Set B (auto).13	0.2	12.6	-1.8	**-2.1**	0.1	-1.6	12.7
B257	1.425-	NC_ULS-Set B (auto).22	-0.9	-3.3	-2.0	**3.2**	-0.2	-1.5	4.0
B257	0.000	NC_ULS-Set B (auto).33	**-17.8**	0.0	-0.9	-0.2	**-4.6**	-2.4	17.8
B257	1.140	NC_ULS-Set B (auto).4	0.1	5.3	-2.5	1.0	-0.7	**-4.4**	5.8
B257	2.850	NC_ULS-Set B (auto).26	17.4	2.5	-1.0	-0.4	4.7	**1.3**	17.6
B257	2.850	NC_ULS-Set B (auto).9	**18.3**	4.4	-1.7	-0.8	**5.0**	1.0	**18.9**
B258	0.418	NC_ULS-Set B (auto).33	**-20.5**	0.9	-0.9	0.3	-0.1	-1.1	20.5
B258	0.000	NC_ULS-Set B (auto).38	0.0	**-10.8**	-0.8	1.1	0.5	0.0	10.8
B258	2.089	NC_ULS-Set B (auto).13	0.1	**12.3**	-1.8	-1.7	0.2	-2.2	12.4
B258	2.089	NC_ULS-Set B (auto).25	14.3	-0.7	**3.3**	**-2.0**	1.4	-2.3	14.7
B258	1.044-	NC_ULS-Set B (auto).21	0.2	-8.2	-1.4	**2.2**	-0.6	-1.1	8.3
B258	2.089	NC_ULS-Set B (auto).17	-19.5	2.8	**-2.2**	-1.7	**-1.5**	-2.4	19.8
B258	1.044-	NC_ULS-Set B (auto).25	17.3	-0.3	1.0	-0.8	**4.7**	0.2	17.3
B258	2.089	NC_ULS-Set B (auto).4	0.8	6.6	-2.2	0.1	-0.1	**-4.8**	6.9
B258	0.000	NC_ULS-Set B (auto).9	**20.7**	0.9	-2.1	0.0	2.9	**1.9**	**20.8**
B259	2.105	NC_ULS-Set B (auto).18	**-3.4**	0.9	-2.6	-0.6	-1.6	0.0	4.4
B259	2.105	NC_ULS-Set B (auto).9	**3.0**	1.8	-2.4	-0.6	1.6	-0.2	4.2
B259	2.105	NC_ULS-Set B (auto).38	0.8	**-2.2**	-2.3	**1.2**	0.3	0.6	3.3
B259	2.105	NC_ULS-Set B (auto).23	1.1	-0.1	**-3.6**	0.5	0.4	1.3	3.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B259	0.000	NC_ULS-Set B (auto).26	1.0	0.0	**-0.8**	0.2	0.4	0.2	1.2
B259	1.684	NC_ULS-Set B (auto).14	0.2	4.9	-2.0	**-2.1**	0.0	1.5	5.2
B259	2.105	NC_ULS-Set B (auto).17	-3.1	1.2	-2.7	-0.6	**-1.6**	0.0	4.3
B259	2.105	NC_ULS-Set B (auto).25	2.4	1.7	-1.4	-0.5	**1.6**	-0.5	3.3
B259	0.000	NC_ULS-Set B (auto).34	-1.1	0.0	-1.7	0.0	-0.5	**-0.8**	2.0
B259	2.105	NC_ULS-Set B (auto).4	-0.7	4.4	-2.7	-1.3	0.1	**3.1**	5.2
B259	2.105	NC_ULS-Set B (auto).13	0.6	**6.3**	-2.7	-2.0	0.1	1.8	**6.9**
B260	2.105	NC_ULS-Set B (auto).18	**-3.4**	0.9	-2.6	-0.6	-1.6	0.0	4.4
B260	2.105	NC_ULS-Set B (auto).9	**3.0**	1.8	-2.4	-0.6	1.6	-0.2	4.2
B260	2.105	NC_ULS-Set B (auto).38	0.8	**-2.2**	-2.3	1.2	0.3	0.6	3.3
B260	2.105	NC_ULS-Set B (auto).23	1.1	-0.1	**-3.6**	0.5	0.4	1.3	3.7
B260	0.211	NC_ULS-Set B (auto).34	-1.2	0.5	**-1.0**	-0.2	-0.3	0.5	1.6
B260	2.105	NC_ULS-Set B (auto).13	0.6	**6.3**	-2.7	**-2.0**	0.1	1.8	**6.9**
B260	1.684	NC_ULS-Set B (auto).38	0.5	-1.6	-2.1	**1.4**	0.1	0.4	2.7
B260	2.105	NC_ULS-Set B (auto).17	-3.1	1.2	-2.7	-0.6	**-1.6**	0.0	4.3
B260	2.105	NC_ULS-Set B (auto).25	2.4	1.7	-1.4	-0.5	**1.6**	-0.5	3.3
B260	2.105	NC_ULS-Set B (auto).26	2.2	1.3	-1.3	-0.5	1.5	**-0.6**	2.9
B260	2.105	NC_ULS-Set B (auto).4	-0.7	4.4	-2.7	-1.3	0.1	**3.1**	5.2
B261	2.850	NC_ULS-Set B (auto).38	2.3	**-6.0**	-0.8	1.7	0.1	0.6	6.5
B261	0.000	NC_ULS-Set B (auto).15	-0.5	**12.6**	-2.0	-1.7	-0.2	2.0	12.8
B261	0.855	NC_ULS-Set B (auto).17	-14.0	3.8	**-3.6**	0.9	0.1	1.8	14.9
B261	0.570	NC_ULS-Set B (auto).26	6.1	3.1	**-0.8**	0.2	-0.1	1.2	6.9
B261	2.850	NC_ULS-Set B (auto).13	1.5	6.6	-1.9	**-2.0**	0.0	1.5	7.0
B261	1.425-	NC_ULS-Set B (auto).22	0.9	-3.4	-2.1	**3.2**	0.2	1.7	4.1
B261	0.000	NC_ULS-Set B (auto).17	**-18.5**	4.3	-1.7	-0.8	**-5.0**	-1.0	**19.0**
B261	2.850	NC_ULS-Set B (auto).25	**17.6**	-0.1	-0.8	-0.2	**4.6**	1.6	17.6
B261	2.850	NC_ULS-Set B (auto).34	-3.8	0.2	-1.8	-0.1	-3.7	**-1.6**	4.2
B261	1.710	NC_ULS-Set B (auto).4	-0.3	5.0	-2.5	1.0	0.7	**4.4**	5.6
B262	2.105	NC_ULS-Set B (auto).17	**-20.2**	3.4	-2.4	0.0	-1.4	0.6	**20.6**
B262	2.105	NC_ULS-Set B (auto).25	**19.3**	2.4	-1.8	-0.2	1.5	0.2	19.5
B262	2.105	NC_ULS-Set B (auto).38	-0.2	**-6.7**	-1.0	**1.8**	-0.1	0.9	6.8
B262	2.105	NC_ULS-Set B (auto).13	-0.4	**12.5**	-1.9	-1.4	-0.2	2.0	12.6
B262	0.421	NC_ULS-Set B (auto).17	-6.7	0.3	**-2.5**	-1.5	-6.2	-0.2	7.1
B262	0.000	NC_ULS-Set B (auto).26	16.8	0.0	**-0.8**	-0.2	4.5	1.2	16.8
B262	1.053-	NC_ULS-Set B (auto).13	0.7	9.5	-2.0	**-2.5**	-0.9	1.6	9.8
B262	1.053-	NC_ULS-Set B (auto).17	-12.3	1.4	-2.0	-2.4	**-7.3**	0.8	12.5
B262	0.000	NC_ULS-Set B (auto).25	17.6	-0.1	-0.8	-0.2	**4.6**	1.6	17.6
B262	0.000	NC_ULS-Set B (auto).34	-3.8	0.2	-1.8	-0.1	-3.7	**-1.6**	4.2

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B262	2.105	NC_ULS-Set B (auto).4	-1.0	6.5	-2.2	0.3	0.1	**4.7**	7.0
B263	2.105	NC_ULS-Set B (auto).17	**-20.2**	3.4	-2.4	0.0	-1.4	0.6	20.6
B263	2.105	NC_ULS-Set B (auto).25	**19.3**	2.4	-1.8	-0.2	1.5	0.2	19.5
B263	2.105	NC_ULS-Set B (auto).38	-0.2	**-6.7**	-1.0	1.8	-0.1	0.9	6.8
B263	1.053-	NC_ULS-Set B (auto).13	-0.4	**12.8**	-1.9	-1.2	0.0	1.3	12.9
B263	0.842	NC_ULS-Set B (auto).17	-20.1	4.5	**-2.8**	0.8	-0.3	0.0	**20.8**
B263	0.000	NC_ULS-Set B (auto).13	-0.3	12.6	-1.8	**-2.0**	-0.2	1.5	12.7
B263	1.474	NC_ULS-Set B (auto).22	-0.4	-4.4	-1.6	**2.2**	0.3	0.9	4.7
B263	0.000	NC_ULS-Set B (auto).17	-18.5	4.3	-1.7	-0.8	**-5.0**	-1.0	19.0
B263	0.842	NC_ULS-Set B (auto).25	10.1	3.9	-1.7	0.6	**6.9**	1.6	11.0
B263	0.000	NC_ULS-Set B (auto).34	-17.5	2.3	**-1.0**	-0.5	-4.7	**-1.2**	17.7
B263	2.105	NC_ULS-Set B (auto).4	-1.0	6.5	-2.2	0.3	0.1	**4.7**	7.0
B264	1.625	NC_ULS-Set B (auto).17	**-24.3**	0.0	-17.0	0.0	0.0	0.0	**29.6**
B264	1.625	NC_ULS-Set B (auto).25	**23.7**	-0.1	-10.5	**0.0**	**0.0**	**0.0**	25.9
B264	0.000	NC_ULS-Set B (auto).38	-0.3	**-12.3**	**-2.1**	0.0	0.0	0.0	12.5
B264	1.625	NC_ULS-Set B (auto).29	-0.4	**11.9**	-12.9	0.0	0.0	0.0	17.5
B264	1.625	NC_ULS-Set B (auto).4	-0.5	-0.4	**-23.7**	0.0	0.0	0.0	23.7
B265	1.625	NC_ULS-Set B (auto).17	**-26.9**	0.7	-24.4	0.0	0.0	0.0	**36.4**
B265	1.625	NC_ULS-Set B (auto).25	**25.2**	0.1	-14.2	**0.0**	**0.0**	**0.0**	29.0
B265	0.000	NC_ULS-Set B (auto).38	-0.3	**-11.9**	**-5.6**	0.0	0.0	0.0	13.1
B265	0.000	NC_ULS-Set B (auto).29	-0.4	**12.4**	-15.6	0.0	0.0	0.0	19.9
B265	1.625	NC_ULS-Set B (auto).4	-1.6	-0.4	**-34.3**	0.0	0.0	0.0	34.3
B266	1.625	NC_ULS-Set B (auto).17	**-24.0**	-0.5	-13.2	0.0	0.0	0.0	27.4
B266	1.625	NC_ULS-Set B (auto).25	**23.9**	-0.2	-15.0	**0.0**	**0.0**	**0.0**	28.2
B266	0.000	NC_ULS-Set B (auto).37	0.0	**-12.4**	-4.3	0.0	0.0	0.0	13.2
B266	1.625	NC_ULS-Set B (auto).29	0.2	**11.6**	-13.2	0.0	0.0	0.0	17.6
B266	1.625	NC_ULS-Set B (auto).4	0.0	-1.1	**-24.5**	0.0	0.0	0.0	24.5
B266	0.000	NC_ULS-Set B (auto).38	-0.1	-12.4	**-2.2**	0.0	0.0	0.0	12.6
B266	1.625	NC_ULS-Set B (auto).9	23.9	-0.3	-17.4	0.0	0.0	0.0	**29.6**
B267	1.625	NC_ULS-Set B (auto).33	**-25.5**	0.0	-14.6	0.0	0.0	0.0	29.4
B267	0.000	NC_ULS-Set B (auto).38	0.0	**-12.0**	**-5.8**	0.0	0.0	0.0	13.3
B267	1.625	NC_ULS-Set B (auto).29	0.6	**12.0**	-16.3	**0.0**	**0.0**	**0.0**	20.3
B267	1.625	NC_ULS-Set B (auto).4	1.1	-0.7	**-35.4**	0.0	0.0	0.0	35.5
B267	1.625	NC_ULS-Set B (auto).9	**26.5**	0.6	-25.2	0.0	0.0	0.0	**36.6**
B268	1.625	NC_ULS-Set B (auto).17	**-24.2**	0.2	-16.6	0.0	0.0	0.0	**29.3**
B268	1.625	NC_ULS-Set B (auto).25	**23.7**	0.7	-10.2	**0.0**	**0.0**	**0.0**	25.8
B268	1.625	NC_ULS-Set B (auto).38	-0.1	**-11.6**	-9.3	0.0	0.0	0.0	14.9
B268	0.000	NC_ULS-Set B (auto).29	-0.5	**13.2**	-1.0	0.0	0.0	0.0	13.3

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B268	1.625	NC_ULS-Set B (auto).4	-0.4	1.3	**-23.2**	0.0	0.0	0.0	23.2
B268	0.000	NC_ULS-Set B (auto).30	-0.3	12.8	**-0.9**	0.0	0.0	0.0	12.8
B269	1.625	NC_ULS-Set B (auto).17	**-26.7**	-0.2	-24.3	0.0	0.0	0.0	**36.1**
B269	1.625	NC_ULS-Set B (auto).25	**25.1**	0.0	-14.1	**0.0**	**0.0**	**0.0**	28.8
B269	0.000	NC_ULS-Set B (auto).38	-0.3	**-11.9**	-10.7	0.0	0.0	0.0	16.0
B269	1.625	NC_ULS-Set B (auto).30	-0.6	**12.3**	-7.3	0.0	0.0	0.0	14.3
B269	1.625	NC_ULS-Set B (auto).4	-1.5	1.1	**-34.0**	0.0	0.0	0.0	34.1
B269	0.000	NC_ULS-Set B (auto).30	-0.4	12.2	**-5.2**	0.0	0.0	0.0	13.2
B270	1.625	NC_ULS-Set B (auto).17	**-23.9**	0.8	-12.9	0.0	0.0	0.0	27.2
B270	1.625	NC_ULS-Set B (auto).25	**23.9**	0.1	-14.7	**0.0**	**0.0**	**0.0**	28.0
B270	1.625	NC_ULS-Set B (auto).38	0.1	**-11.5**	-9.6	0.0	0.0	0.0	15.0
B270	0.000	NC_ULS-Set B (auto).13	0.0	**13.1**	-3.1	0.0	0.0	0.0	13.5
B270	1.625	NC_ULS-Set B (auto).4	0.0	1.3	**-23.9**	0.0	0.0	0.0	23.9
B270	0.000	NC_ULS-Set B (auto).30	-0.1	12.7	**-1.1**	0.0	0.0	0.0	12.8
B270	1.625	NC_ULS-Set B (auto).9	23.9	0.3	-17.1	0.0	0.0	0.0	**29.3**
B271	0.000	NC_ULS-Set B (auto).38	0.2	**-11.8**	-11.1	0.0	0.0	0.0	16.2
B271	1.625	NC_ULS-Set B (auto).30	0.3	**12.1**	-7.5	**0.0**	**0.0**	**0.0**	14.2
B271	1.625	NC_ULS-Set B (auto).4	1.2	0.9	**-35.0**	0.0	0.0	0.0	35.0
B271	0.000	NC_ULS-Set B (auto).30	0.1	12.1	**-5.3**	0.0	0.0	0.0	13.2
B271	0.000	NC_ULS-Set B (auto).17	**-25.3**	0.3	-16.0	0.0	0.0	**0.0**	30.0
B271	1.625	NC_ULS-Set B (auto).9	**26.4**	-0.3	-24.9	0.0	0.0	0.0	**36.3**
B272	2.105	NC_ULS-Set B (auto).17	**-18.5**	-4.2	-1.7	0.8	-5.0	-3.0	**19.0**
B272	2.105	NC_ULS-Set B (auto).9	**3.7**	-5.9	-2.4	1.1	4.1	-1.7	7.3
B272	2.105	NC_ULS-Set B (auto).23	-0.5	**-12.7**	-2.0	1.7	-0.2	-2.5	12.8
B272	2.105	NC_ULS-Set B (auto).30	-0.4	**2.8**	-1.2	-1.5	-0.1	-1.0	3.1
B272	0.211	NC_ULS-Set B (auto).15	1.4	-0.3	**-4.0**	-0.7	-0.1	-2.4	4.2
B272	2.105	NC_ULS-Set B (auto).34	-17.1	-2.3	**-1.0**	0.4	-4.6	-2.3	17.3
B272	1.263	NC_ULS-Set B (auto).30	0.3	2.4	-1.9	**-1.9**	-1.6	-1.2	3.0
B272	2.105	NC_ULS-Set B (auto).21	-0.4	-12.6	-1.8	**2.0**	-0.1	-1.9	12.7
B272	1.263	NC_ULS-Set B (auto).33	-11.5	-2.1	-1.8	-0.7	**-7.1**	-1.8	11.8
B272	2.105	NC_ULS-Set B (auto).25	3.7	-4.8	-2.0	1.0	**4.1**	-1.4	6.4
B272	1.053-	NC_ULS-Set B (auto).4	-0.8	-7.8	-2.7	1.4	-0.3	**-4.3**	8.3
B272	0.000	NC_ULS-Set B (auto).2	-0.2	-1.0	-1.3	0.3	0.0	**-0.8**	1.6
B273	2.105	NC_ULS-Set B (auto).18	**-4.2**	-0.3	-2.3	0.2	-3.7	-1.7	4.8
B273	0.000	NC_ULS-Set B (auto).21	1.1	**-6.6**	-3.1	1.9	0.3	-2.3	7.4
B273	2.105	NC_ULS-Set B (auto).29	5.5	**6.1**	-0.9	-1.7	0.3	-1.8	8.3
B273	0.000	NC_ULS-Set B (auto).15	1.4	-0.1	**-3.9**	-0.5	0.7	-2.3	4.2
B273	2.105	NC_ULS-Set B (auto).26	16.5	0.0	**-0.8**	0.2	4.4	-0.8	16.5

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B273	2.105	NC_ULS-Set B (auto).30	3.5	6.0	-0.9	**-1.7**	0.2	-1.3	7.0
B273	1.263	NC_ULS-Set B (auto).21	1.9	-6.4	-2.4	**2.3**	1.3	-2.7	7.1
B273	2.105	NC_ULS-Set B (auto).17	-3.7	-0.1	-2.3	0.2	**-3.9**	-2.3	4.4
B273	1.263	NC_ULS-Set B (auto).25	11.1	-0.1	-1.4	1.2	**7.0**	-1.7	11.2
B273	0.632	NC_ULS-Set B (auto).4	-0.6	-2.9	-2.6	1.2	0.7	**-3.7**	3.9
B273	2.105	NC_ULS-Set B (auto).2	-0.1	-0.2	-1.2	0.1	0.0	**-0.7**	1.3
B273	2.105	NC_ULS-Set B (auto).25	**17.8**	0.1	-0.9	0.2	4.6	-1.2	**17.8**
B274	1.684	NC_ULS-Set B (auto).17	**-21.2**	-3.9	-1.6	-1.8	0.1	-0.4	21.6
B274	2.105	NC_ULS-Set B (auto).25	**20.3**	-4.5	-2.1	-2.2	2.0	-1.3	20.9
B274	1.895	NC_ULS-Set B (auto).21	-0.4	**-14.9**	-1.9	-0.9	0.1	-0.6	15.0
B274	2.105	NC_ULS-Set B (auto).30	0.0	**9.6**	-1.3	-3.0	0.3	0.4	9.7
B274	1.684	NC_ULS-Set B (auto).34	-19.8	-2.1	**-1.0**	-1.1	0.0	0.0	20.0
B274	2.105	NC_ULS-Set B (auto).4	-0.6	-7.6	**-2.6**	**-5.1**	0.4	0.5	8.0
B274	0.000	NC_ULS-Set B (auto).37	-0.2	-11.3	-1.4	**1.3**	-0.3	-2.4	11.4
B274	0.000	NC_ULS-Set B (auto).17	-20.2	-1.7	-2.5	0.1	**-1.4**	-4.0	20.4
B274	2.105	NC_ULS-Set B (auto).9	20.2	-5.2	-2.5	-2.7	**2.0**	-1.2	21.0
B274	0.211	NC_ULS-Set B (auto).4	-1.0	-6.9	-2.3	-0.5	0.2	**-5.1**	7.3
B274	2.105	NC_ULS-Set B (auto).17	-21.0	-3.2	-1.8	-2.3	1.0	**1.3**	21.3
B274	1.474	NC_ULS-Set B (auto).17	-21.1	-4.1	-1.6	-1.5	-0.3	-1.1	**21.6**
B275	2.105	NC_ULS-Set B (auto).17	**-21.0**	-0.6	-2.4	0.0	-2.9	**2.0**	**21.1**
B275	1.684	NC_ULS-Set B (auto).25	**20.4**	-0.6	-0.8	0.3	0.1	-1.2	20.4
B275	0.000	NC_ULS-Set B (auto).21	-0.3	**-11.7**	-1.9	1.2	-0.3	-2.8	11.8
B275	2.105	NC_ULS-Set B (auto).30	0.0	**10.9**	-0.9	-1.1	-0.9	0.4	10.9
B275	0.421	NC_ULS-Set B (auto).17	-20.5	-0.8	**-2.6**	0.4	0.0	-3.1	20.7
B275	1.684	NC_ULS-Set B (auto).29	0.2	10.6	**-0.7**	-0.9	0.0	-0.1	10.6
B275	0.000	NC_ULS-Set B (auto).30	-0.2	7.6	-1.1	**-1.9**	-0.3	-1.9	7.7
B275	0.842	NC_ULS-Set B (auto).37	-0.2	-10.9	-1.5	**1.4**	0.2	-1.7	11.0
B275	2.105	NC_ULS-Set B (auto).33	-20.9	-0.5	-2.0	0.0	**-2.9**	1.9	21.0
B275	0.000	NC_ULS-Set B (auto).25	19.3	-3.4	-1.8	0.1	**1.5**	-4.1	19.7
B275	0.000	NC_ULS-Set B (auto).4	-1.0	-6.2	-2.3	-0.4	0.1	**-5.0**	6.7
B276	2.089	NC_ULS-Set B (auto).33	**-18.0**	0.2	-0.9	0.2	-4.7	0.3	**18.0**
B276	2.089	NC_ULS-Set B (auto).26	**3.9**	-0.2	-1.7	0.1	3.7	0.8	4.2
B276	0.209	NC_ULS-Set B (auto).21	-1.2	**-7.0**	-3.1	1.8	-0.6	2.0	7.8
B276	2.089	NC_ULS-Set B (auto).29	-5.6	**6.3**	-0.9	-1.7	-0.3	0.8	8.5
B276	0.000	NC_ULS-Set B (auto).17	-9.3	-5.4	**-8.1**	1.8	-1.8	1.8	13.4
B276	0.000	NC_ULS-Set B (auto).26	1.9	-1.3	**-0.8**	1.5	1.5	0.3	2.4
B276	1.253	NC_ULS-Set B (auto).13	-4.3	3.5	-2.4	**-3.0**	-3.0	2.1	6.1
B276	0.000	NC_ULS-Set B (auto).21	-1.2	-7.0	-3.2	**2.2**	-0.4	2.1	7.8

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B276	1.253	NC_ULS-Set B (auto).33	-13.9	-1.7	-3.8	-2.2	**-6.5**	2.9	14.5
B276	2.089	NC_ULS-Set B (auto).9	3.4	-0.1	-2.1	0.2	**4.0**	1.4	4.0
B276	2.089	NC_ULS-Set B (auto).34	-16.7	0.1	-0.9	0.1	-4.4	**0.1**	16.8
B276	0.835	NC_ULS-Set B (auto).17	-12.0	-3.6	-6.1	-2.0	-5.7	**3.3**	13.9
B277	1.910	NC_ULS-Set B (auto).21	0.2	**-14.8**	-1.9	-0.4	-0.1	0.4	14.9
B277	2.122	NC_ULS-Set B (auto).30	0.0	**9.7**	-1.3	-3.1	-0.3	-0.3	9.8
B277	2.122	NC_ULS-Set B (auto).4	0.3	-7.4	**-2.7**	**-5.1**	-0.4	-0.3	7.9
B277	0.424	NC_ULS-Set B (auto).22	0.1	-12.3	-1.7	**1.2**	-0.1	1.3	12.4
B277	2.122	NC_ULS-Set B (auto).17	**-20.5**	-5.1	-2.6	-2.7	**-2.0**	1.3	**21.3**
B277	0.000	NC_ULS-Set B (auto).25	13.6	-4.8	**3.8**	-1.8	**1.4**	1.5	15.0
B277	2.122	NC_ULS-Set B (auto).9	**20.7**	-3.1	-1.8	-2.3	-1.1	**-1.2**	21.0
B277	0.000	NC_ULS-Set B (auto).4	0.8	-6.1	-2.2	-0.5	-0.1	**4.8**	6.6
B278	0.000	NC_ULS-Set B (auto).33	**-19.6**	-3.6	-1.8	-1.5	-1.5	2.3	20.0
B278	1.698	NC_ULS-Set B (auto).9	**18.9**	-4.0	-2.1	2.3	-1.4	1.6	19.4
B278	2.122	NC_ULS-Set B (auto).23	0.5	**-12.6**	-2.1	1.7	0.2	2.3	12.8
B278	0.000	NC_ULS-Set B (auto).30	0.2	**7.1**	-1.1	-2.5	0.3	1.4	7.2
B278	1.486	NC_ULS-Set B (auto).4	1.1	-10.3	**-2.5**	1.0	0.0	4.2	10.7
B278	0.000	NC_ULS-Set B (auto).25	13.6	-4.8	**3.8**	-1.8	1.4	1.5	15.0
B278	0.000	NC_ULS-Set B (auto).29	0.3	6.4	-1.3	**-2.7**	0.5	2.0	6.5
B278	1.273	NC_ULS-Set B (auto).9	17.8	-4.5	-1.0	**2.9**	-5.2	0.6	18.4
B278	1.273	NC_ULS-Set B (auto).33	-10.4	-4.7	-1.7	1.3	**-6.8**	1.4	11.6
B278	2.122	NC_ULS-Set B (auto).9	18.3	-4.2	-1.7	0.7	**5.0**	3.2	18.9
B278	0.849	NC_ULS-Set B (auto).26	15.0	-3.6	1.3	2.1	-5.6	**-0.5**	15.4
B278	0.000	NC_ULS-Set B (auto).4	0.8	-6.1	-2.2	-0.5	-0.1	**4.8**	6.6
B278	0.000	NC_ULS-Set B (auto).17	-19.5	-4.1	-2.3	-1.5	-1.5	2.7	**20.1**
B279	0.000	NC_ULS-Set B (auto).21	-1.2	**-7.0**	-3.2	**2.2**	-0.4	2.1	7.8
B279	2.089	NC_ULS-Set B (auto).29	-0.1	**1.9**	-0.9	-0.7	-0.3	1.6	2.1
B279	0.000	NC_ULS-Set B (auto).17	**-9.3**	-5.4	**-8.1**	1.8	-1.8	1.8	**13.4**
B279	0.000	NC_ULS-Set B (auto).26	**1.9**	-1.3	**-0.8**	1.5	1.5	0.3	2.4
B279	0.418	NC_ULS-Set B (auto).30	-1.2	1.2	-2.6	**-1.0**	-1.1	1.3	3.1
B279	1.044-	NC_ULS-Set B (auto).17	-5.1	-2.1	-4.5	1.6	**-7.0**	3.0	7.1
B279	0.000	NC_ULS-Set B (auto).25	1.7	-1.7	-1.0	1.7	**1.5**	0.6	2.6
B279	2.089	NC_ULS-Set B (auto).26	1.1	-0.1	-1.6	-0.1	0.3	**-0.8**	1.9
B279	0.000	NC_ULS-Set B (auto).4	0.6	-4.4	-2.8	1.4	-0.1	**3.2**	5.3
B280	2.089	NC_ULS-Set B (auto).33	**-17.8**	0.0	-0.9	-0.2	-4.6	-2.4	**17.8**
B280	2.089	NC_ULS-Set B (auto).38	-2.3	**-5.9**	-0.8	**1.7**	-0.1	-1.0	6.4
B280	2.089	NC_ULS-Set B (auto).30	-0.5	**6.9**	-1.4	-2.0	0.0	-1.3	7.0
B280	0.000	NC_ULS-Set B (auto).17	-9.5	-1.9	**-8.3**	0.5	-1.8	-1.1	12.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B280	0.000	NC_ULS-Set B (auto).26	1.7	-0.5	**-0.8**	0.7	1.5	-1.1	2.0
B280	1.044-	NC_ULS-Set B (auto).17	-13.0	-0.9	-5.4	**-2.9**	-6.1	0.0	14.1
B280	1.253	NC_ULS-Set B (auto).33	-13.8	-0.6	-3.9	-2.6	**-6.5**	0.1	14.4
B280	2.089	NC_ULS-Set B (auto).9	3.2	0.2	-2.1	-0.2	**4.0**	0.1	3.8
B280	0.627	NC_ULS-Set B (auto).4	0.4	2.9	-2.5	-1.2	-0.8	**-3.6**	3.9
B280	2.089	NC_ULS-Set B (auto).26	**3.5**	0.1	-1.6	-0.1	3.8	**0.7**	3.8
B281	2.122	NC_ULS-Set B (auto).33	**-20.4**	4.7	-2.1	2.1	-2.0	-1.5	21.1
B281	2.122	NC_ULS-Set B (auto).38	0.0	**-9.5**	-1.2	2.8	-0.3	0.3	9.6
B281	1.910	NC_ULS-Set B (auto).13	0.1	**15.4**	-1.8	0.7	0.0	-0.6	15.5
B281	2.122	NC_ULS-Set B (auto).4	0.4	8.2	**-2.6**	**4.9**	-0.4	0.3	8.6
B281	0.212	NC_ULS-Set B (auto).25	15.1	0.0	2.9	**-2.0**	1.4	-2.6	15.3
B281	2.122	NC_ULS-Set B (auto).17	-20.4	5.4	-2.5	2.5	**-2.0**	-1.5	**21.3**
B281	0.000	NC_ULS-Set B (auto).25	14.3	-0.7	**3.3**	-2.0	**1.4**	-2.3	14.7
B281	0.212	NC_ULS-Set B (auto).4	0.8	7.2	-2.2	0.3	-0.3	**-4.9**	7.6
B281	2.122	NC_ULS-Set B (auto).9	**20.7**	3.5	-1.8	2.2	-1.1	**1.3**	21.1
B282	0.000	NC_ULS-Set B (auto).26	**1.7**	-0.5	-0.8	0.7	1.5	-1.1	2.0
B282	0.000	NC_ULS-Set B (auto).38	-0.7	**-3.0**	-2.2	1.4	-0.3	-0.8	3.8
B282	0.000	NC_ULS-Set B (auto).14	-0.2	**5.9**	-1.9	-2.0	0.0	-1.8	6.2
B282	0.000	NC_ULS-Set B (auto).17	**-9.5**	-1.9	**-8.3**	0.5	-1.8	-1.1	**12.7**
B282	2.089	NC_ULS-Set B (auto).38	0.0	-1.7	**-0.8**	0.7	-0.2	-0.8	1.9
B282	0.418	NC_ULS-Set B (auto).14	-0.3	4.8	-1.9	**-2.1**	0.0	-1.4	5.2
B282	0.000	NC_ULS-Set B (auto).37	-1.2	-3.0	-3.0	**1.5**	-0.5	-0.9	4.4
B282	1.044-	NC_ULS-Set B (auto).17	-5.1	-1.0	-4.6	1.4	**-7.3**	0.8	7.0
B282	0.000	NC_ULS-Set B (auto).25	1.6	-0.2	-1.0	0.7	**1.5**	-1.2	1.9
B282	0.000	NC_ULS-Set B (auto).4	0.6	3.8	-2.7	-1.2	-0.1	**-3.3**	4.7
B282	1.253	NC_ULS-Set B (auto).18	-3.9	-0.8	-3.5	1.3	-6.8	**1.1**	5.3
B283	0.000	NC_ULS-Set B (auto).33	**-19.5**	2.2	-1.8	-1.7	-1.5	-2.0	19.7
B283	1.698	NC_ULS-Set B (auto).9	**19.0**	4.4	-2.1	0.9	-1.0	-1.0	19.6
B283	0.000	NC_ULS-Set B (auto).38	0.2	**-7.3**	-1.0	1.5	0.1	-1.2	7.3
B283	2.122	NC_ULS-Set B (auto).15	0.4	**12.8**	-2.0	-1.8	0.1	-2.1	13.0
B283	1.910	NC_ULS-Set B (auto).17	-5.4	5.7	**-2.5**	-0.7	-5.1	-1.9	8.2
B283	0.000	NC_ULS-Set B (auto).25	14.3	-0.7	**3.3**	-2.0	1.4	-2.3	14.7
B283	2.122	NC_ULS-Set B (auto).13	0.2	12.6	-1.8	**-2.1**	0.1	-1.6	12.7
B283	0.849	NC_ULS-Set B (auto).22	0.4	-4.4	-1.6	**2.2**	-0.3	-1.2	4.7
B283	1.273	NC_ULS-Set B (auto).33	-10.3	3.9	-1.7	0.1	**-6.8**	-2.3	11.2
B283	2.122	NC_ULS-Set B (auto).9	18.3	4.4	-1.7	-0.8	**5.0**	1.0	18.9
B283	0.000	NC_ULS-Set B (auto).4	0.8	6.6	-2.2	0.1	-0.1	**-4.8**	6.9
B283	2.122	NC_ULS-Set B (auto).26	17.4	2.5	-1.0	-0.4	4.7	**1.3**	17.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B283	0.000	NC_ULS-Set B (auto).17	-19.5	2.8	-2.2	-1.7	-1.5	-2.4	**19.8**
B284	2.105	NC_ULS-Set B (auto).17	**-18.5**	4.3	-1.7	-0.8	-5.0	-1.0	**19.0**
B284	2.105	NC_ULS-Set B (auto).9	**3.7**	5.8	-2.4	-1.1	4.1	1.9	7.2
B284	2.105	NC_ULS-Set B (auto).38	-0.4	**-2.9**	-1.2	**1.4**	-0.1	0.5	3.2
B284	2.105	NC_ULS-Set B (auto).15	-0.5	**12.6**	-2.0	-1.7	-0.2	2.0	12.8
B284	0.211	NC_ULS-Set B (auto).23	1.1	0.1	**-3.6**	0.2	-0.2	1.2	3.8
B284	1.263	NC_ULS-Set B (auto).13	0.1	10.1	-2.2	**-2.9**	-1.0	1.6	10.3
B284	1.263	NC_ULS-Set B (auto).33	-11.5	2.4	-1.9	-2.3	**-7.2**	0.1	11.9
B284	2.105	NC_ULS-Set B (auto).25	3.7	4.7	-1.9	-1.0	**4.1**	1.7	6.3
B284	2.105	NC_ULS-Set B (auto).34	-17.5	2.3	**-1.0**	-0.5	-4.7	**-1.2**	17.7
B284	0.000	NC_ULS-Set B (auto).4	-0.7	4.4	-2.7	-1.3	0.1	**3.1**	5.2
B285	2.105	NC_ULS-Set B (auto).18	**-3.8**	0.2	-2.2	-0.2	-3.7	-1.5	4.4
B285	2.105	NC_ULS-Set B (auto).38	2.3	**-6.0**	-0.8	1.7	0.1	0.6	6.5
B285	2.105	NC_ULS-Set B (auto).30	0.3	**6.8**	-1.4	-2.0	0.0	1.2	6.9
B285	0.000	NC_ULS-Set B (auto).23	1.1	-0.1	**-3.6**	0.5	0.4	1.3	3.7
B285	2.105	NC_ULS-Set B (auto).26	16.8	0.0	**-0.8**	-0.2	4.5	1.2	16.8
B285	2.105	NC_ULS-Set B (auto).13	1.5	6.6	-1.9	**-2.0**	0.0	1.5	7.0
B285	1.263	NC_ULS-Set B (auto).21	2.7	-3.9	-2.1	**2.3**	2.1	1.0	5.2
B285	2.105	NC_ULS-Set B (auto).17	-3.5	0.2	-2.2	-0.2	**-3.9**	-1.2	4.2
B285	1.263	NC_ULS-Set B (auto).25	11.1	1.0	-1.5	0.8	**6.9**	1.1	11.2
B285	2.105	NC_ULS-Set B (auto).34	-3.8	0.2	-1.8	-0.1	-3.7	**-1.6**	4.2
B285	0.000	NC_ULS-Set B (auto).4	-0.7	4.4	-2.7	-1.3	0.1	**3.1**	5.2
B285	2.105	NC_ULS-Set B (auto).25	**17.6**	-0.1	-0.8	-0.2	4.6	1.6	**17.6**
B286	1.684	NC_ULS-Set B (auto).17	**-21.1**	4.1	-1.6	0.6	0.1	-0.6	21.6
B286	2.105	NC_ULS-Set B (auto).25	**20.3**	4.6	-2.1	2.1	2.0	1.4	20.9
B286	2.105	NC_ULS-Set B (auto).38	0.0	**-9.4**	-1.2	2.9	0.3	-0.3	9.5
B286	1.895	NC_ULS-Set B (auto).13	-0.4	**15.2**	-1.8	0.3	0.0	0.3	15.3
B286	2.105	NC_ULS-Set B (auto).4	-0.6	8.0	**-2.5**	**4.8**	0.4	-0.5	8.4
B286	1.684	NC_ULS-Set B (auto).34	-20.2	2.2	**-0.9**	0.2	0.0	-0.7	20.3
B286	0.211	NC_ULS-Set B (auto).13	-0.4	13.0	-1.9	**-1.4**	-0.1	1.7	13.1
B286	0.000	NC_ULS-Set B (auto).17	-20.2	3.4	-2.4	0.0	**-1.4**	0.6	20.6
B286	2.105	NC_ULS-Set B (auto).9	20.2	5.3	-2.5	2.5	**2.0**	1.4	21.0
B286	2.105	NC_ULS-Set B (auto).17	-20.9	3.4	-1.7	2.1	1.1	**-1.4**	21.3
B286	0.000	NC_ULS-Set B (auto).4	-1.0	6.5	-2.2	0.3	0.1	**4.7**	7.0
B286	1.474	NC_ULS-Set B (auto).17	-21.1	4.2	-1.6	0.1	-0.2	-0.3	**21.6**
B287	1.684	NC_ULS-Set B (auto).25	**20.3**	0.9	-0.8	0.8	0.1	0.8	20.4
B287	2.105	NC_ULS-Set B (auto).38	0.0	**-10.7**	-0.8	1.0	-0.5	-0.1	10.7
B287	0.000	NC_ULS-Set B (auto).13	-0.4	**12.5**	-1.9	-1.4	-0.2	2.0	12.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B287	0.211	NC_ULS-Set B (auto).17	-20.4	3.2	**-2.5**	0.7	-0.6	0.8	20.8
B287	1.895	NC_ULS-Set B (auto).38	0.0	-10.5	**-0.8**	1.5	-0.1	0.1	10.5
B287	0.000	NC_ULS-Set B (auto).29	-0.3	12.2	-1.4	**-1.4**	-0.2	1.7	12.3
B287	1.053-	NC_ULS-Set B (auto).21	-0.3	-7.9	-1.4	**2.8**	0.6	1.1	8.0
B287	2.105	NC_ULS-Set B (auto).33	-20.8	0.7	-1.9	0.0	**-3.0**	-1.9	20.9
B287	0.000	NC_ULS-Set B (auto).25	19.3	2.4	-1.8	-0.2	**1.5**	0.2	19.5
B287	2.105	NC_ULS-Set B (auto).17	**-20.9**	0.8	-2.3	0.0	-3.0	**-2.0**	**21.1**
B287	0.000	NC_ULS-Set B (auto).4	-1.0	6.5	-2.2	0.3	0.1	**4.7**	7.0
B288	1.625	NC_ULS-Set B (auto).17	**-26.6**	2.3	-17.2	0.0	0.0	0.0	31.8
B288	1.625	NC_ULS-Set B (auto).9	**26.9**	1.3	-23.6	**0.0**	**0.0**	**0.0**	35.8
B288	0.000	NC_ULS-Set B (auto).38	0.3	**-11.4**	-11.5	0.0	0.0	0.0	16.2
B288	1.625	NC_ULS-Set B (auto).13	0.3	**13.1**	-16.1	0.0	0.0	0.0	20.7
B288	0.000	NC_ULS-Set B (auto).4	1.2	0.9	**-35.0**	0.0	0.0	0.0	35.0
B288	0.000	NC_ULS-Set B (auto).30	0.3	12.1	**-7.5**	0.0	0.0	0.0	14.2
B288	0.000	NC_ULS-Set B (auto).9	26.4	-0.3	-24.9	0.0	0.0	0.0	**36.3**
B289	1.625	NC_ULS-Set B (auto).17	**-25.3**	0.3	-16.0	0.0	0.0	0.0	30.0
B289	1.625	NC_ULS-Set B (auto).25	**25.3**	-0.6	-18.6	**0.0**	**0.0**	**0.0**	31.4
B289	1.625	NC_ULS-Set B (auto).38	0.2	**-11.8**	-11.1	0.0	0.0	0.0	16.2
B289	1.625	NC_ULS-Set B (auto).4	0.0	0.1	**-30.3**	0.0	0.0	0.0	30.3
B289	0.000	NC_ULS-Set B (auto).30	0.0	**12.4**	**-3.4**	0.0	0.0	0.0	12.9
B289	1.625	NC_ULS-Set B (auto).9	25.3	-0.6	-21.6	0.0	0.0	0.0	**33.2**
B290	1.625	NC_ULS-Set B (auto).17	**-26.6**	-1.8	-17.2	0.0	0.0	0.0	31.7
B290	1.625	NC_ULS-Set B (auto).9	**26.8**	-1.3	-24.0	**0.0**	**0.0**	**0.0**	36.0
B290	1.625	NC_ULS-Set B (auto).21	0.3	**-12.8**	-16.6	0.0	0.0	0.0	21.0
B290	0.000	NC_ULS-Set B (auto).29	0.6	**12.0**	-16.3	0.0	0.0	0.0	20.3
B290	0.000	NC_ULS-Set B (auto).4	1.1	-0.7	**-35.4**	0.0	0.0	0.0	35.5
B290	0.000	NC_ULS-Set B (auto).38	0.4	-11.8	**-7.6**	0.0	0.0	0.0	14.0
B290	0.000	NC_ULS-Set B (auto).9	26.5	0.6	-25.2	0.0	0.0	0.0	**36.6**
B291	1.625	NC_ULS-Set B (auto).17	**-25.4**	0.1	-16.7	0.0	0.0	0.0	30.4
B291	1.625	NC_ULS-Set B (auto).25	**25.1**	0.6	-19.5	**0.0**	**0.0**	**0.0**	31.8
B291	0.000	NC_ULS-Set B (auto).38	0.1	**-12.3**	**-3.7**	0.0	0.0	0.0	12.9
B291	1.625	NC_ULS-Set B (auto).29	0.1	**12.0**	-16.1	0.0	0.0	0.0	20.1
B291	1.625	NC_ULS-Set B (auto).4	-0.2	0.3	**-31.8**	0.0	0.0	0.0	31.8
B291	1.625	NC_ULS-Set B (auto).9	25.1	0.6	-22.6	0.0	0.0	0.0	**33.8**
B292	1.625	NC_ULS-Set B (auto).17	**-25.7**	0.9	-22.0	0.0	0.0	0.0	**33.8**
B292	1.625	NC_ULS-Set B (auto).25	**24.9**	0.3	-13.1	**0.0**	**0.0**	**0.0**	28.2
B292	0.000	NC_ULS-Set B (auto).38	-0.3	**-12.3**	**-3.6**	0.0	0.0	0.0	12.8
B292	1.625	NC_ULS-Set B (auto).29	-0.4	**12.4**	-15.6	0.0	0.0	0.0	19.9

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B292	1.625	NC_ULS-Set B (auto).4	-0.7	0.8	**-30.7**	0.0	0.0	0.0	30.7
B293	1.625	NC_ULS-Set B (auto).17	**-27.1**	-1.4	-23.3	0.0	0.0	0.0	35.7
B293	1.625	NC_ULS-Set B (auto).25	**26.4**	-1.7	-13.4	**0.0**	**0.0**	**0.0**	29.7
B293	1.625	NC_ULS-Set B (auto).37	-0.2	**-13.0**	-12.8	0.0	0.0	0.0	18.2
B293	0.000	NC_ULS-Set B (auto).29	-0.8	**12.3**	-15.8	0.0	0.0	0.0	20.0
B293	0.000	NC_ULS-Set B (auto).4	-1.6	-0.4	**-34.3**	0.0	0.0	0.0	34.3
B293	0.000	NC_ULS-Set B (auto).38	-0.6	-11.8	**-7.3**	0.0	0.0	0.0	13.9
B293	0.000	NC_ULS-Set B (auto).17	-26.9	0.7	-24.4	0.0	0.0	**0.0**	**36.4**
B294	1.625	NC_ULS-Set B (auto).17	**-27.1**	1.6	-22.8	0.0	0.0	0.0	35.5
B294	1.625	NC_ULS-Set B (auto).25	**26.4**	2.2	-13.5	**0.0**	**0.0**	**0.0**	29.8
B294	0.000	NC_ULS-Set B (auto).38	-0.4	**-11.4**	-11.1	0.0	0.0	0.0	15.9
B294	1.625	NC_ULS-Set B (auto).29	-0.4	**13.4**	-12.3	0.0	0.0	0.0	18.2
B294	0.000	NC_ULS-Set B (auto).4	-1.5	1.1	**-34.0**	0.0	0.0	0.0	34.1
B294	0.000	NC_ULS-Set B (auto).30	-0.6	12.3	**-7.3**	0.0	0.0	0.0	14.3
B294	0.000	NC_ULS-Set B (auto).17	-26.7	-0.2	-24.3	0.0	0.0	**0.0**	**36.1**
B295	1.625	NC_ULS-Set B (auto).17	**-25.7**	-0.6	-21.2	0.0	0.0	0.0	**33.3**
B295	1.625	NC_ULS-Set B (auto).25	**25.0**	0.2	-12.7	**0.0**	**0.0**	**0.0**	28.1
B295	1.625	NC_ULS-Set B (auto).38	-0.3	**-11.9**	-10.7	0.0	0.0	0.0	16.0
B295	0.000	NC_ULS-Set B (auto).29	-0.4	**12.5**	-6.1	0.0	0.0	0.0	14.0
B295	1.625	NC_ULS-Set B (auto).4	-0.6	0.1	**-29.6**	0.0	0.0	0.0	29.6
B295	0.000	NC_ULS-Set B (auto).30	-0.3	12.5	**-3.3**	0.0	0.0	0.0	12.9
B296	0.000	NC_ULS-Set B (auto).17	**-25.3**	0.3	-16.0	-39.1	6.2	0.5	30.0
B296	0.000	NC_ULS-Set B (auto).25	**25.3**	-0.6	-18.6	-45.0	7.9	0.5	31.4
B296	1.425	NC_ULS-Set B (auto).38	0.1	**-12.0**	-16.1	1.1	4.0	-0.6	20.1
B296	1.283	NC_ULS-Set B (auto).29	0.2	**12.7**	-13.1	-0.5	3.2	0.0	18.2
B296	0.000	NC_ULS-Set B (auto).30	0.1	12.1	**-5.3**	-4.8	2.2	0.7	13.2
B296	0.000	NC_ULS-Set B (auto).4	0.0	0.1	-30.3	**-65.7**	**14.2**	1.0	30.3
B296	0.855	NC_ULS-Set B (auto).34	-24.6	0.4	-10.9	-12.8	**1.6**	-0.3	26.9
B296	1.425	NC_ULS-Set B (auto).4	-0.1	0.9	**-44.6**	**6.3**	11.4	**-1.3**	**44.6**
B296	0.285	NC_ULS-Set B (auto).4	0.0	0.5	-33.9	-62.0	11.4	**1.4**	33.9
B302	1.000	NC_ULS-Set B (auto).18	**-1.1**	-3.2	-1.9	1.1	0.0	0.0	3.9
B302	1.000	NC_ULS-Set B (auto).25	**1.0**	-2.7	-1.7	1.1	0.0	0.0	3.4
B302	1.000	NC_ULS-Set B (auto).4	0.0	**-10.7**	**-2.7**	**3.1**	0.0	-0.2	**11.1**
B302	0.000	NC_ULS-Set B (auto).38	0.0	-6.9	**-0.7**	2.6	0.0	-0.3	6.9
B302	1.000	NC_ULS-Set B (auto).30	0.0	**0.3**	-1.3	**-0.7**	0.0	**0.0**	1.3
B302	0.100	NC_ULS-Set B (auto).33	-1.1	-1.8	-1.7	1.0	**0.0**	0.0	2.7
B302	0.100	NC_ULS-Set B (auto).9	1.0	-2.4	-2.2	1.3	**0.0**	0.0	3.4
B302	1.000	NC_ULS-Set B (auto).21	0.0	-10.1	-1.7	3.0	0.0	**-0.3**	10.2

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B304	0.000	NC_ULS-Set B (auto).18	**-1.2**	-1.9	-1.7	0.9	0.1	-0.4	2.8
B304	1.000	NC_ULS-Set B (auto).25	**1.0**	-2.5	-1.8	1.0	0.0	-0.2	3.2
B304	1.000	NC_ULS-Set B (auto).4	0.0	**-9.3**	**-2.6**	**2.7**	0.1	-0.9	**9.7**
B304	0.000	NC_ULS-Set B (auto).38	0.0	-5.7	**-0.8**	2.3	0.0	-0.7	5.7
B304	1.000	NC_ULS-Set B (auto).30	0.0	**0.1**	-1.3	**-0.5**	0.0	**0.1**	1.3
B304	1.000	NC_ULS-Set B (auto).38	0.0	-8.0	-0.8	2.4	**0.0**	-0.7	8.1
B304	1.000	NC_ULS-Set B (auto).17	-1.1	-3.1	-1.9	1.2	**0.1**	-0.4	3.8
B304	1.000	NC_ULS-Set B (auto).7	0.0	-8.6	-2.1	2.5	0.1	**-0.9**	8.9
B306	1.000	NC_ULS-Set B (auto).17	**-1.1**	-3.2	-2.2	1.3	0.0	0.2	4.1
B306	0.000	NC_ULS-Set B (auto).26	**1.1**	-1.3	-1.3	0.7	-0.1	0.3	2.1
B306	1.000	NC_ULS-Set B (auto).4	0.0	**-9.3**	**-2.6**	**2.7**	-0.1	0.9	**9.7**
B306	0.000	NC_ULS-Set B (auto).38	-0.1	-5.7	**-0.9**	2.3	0.0	0.7	5.7
B306	1.000	NC_ULS-Set B (auto).9	1.0	-3.1	-2.0	1.2	**-0.1**	0.4	3.8
B306	1.000	NC_ULS-Set B (auto).38	0.0	-8.0	-0.9	2.4	**0.1**	0.7	8.1
B306	1.000	NC_ULS-Set B (auto).30	0.0	**0.1**	-1.3	**-0.5**	0.0	**-0.1**	1.3
B306	1.000	NC_ULS-Set B (auto).7	0.0	-8.6	-2.1	2.5	0.0	**0.9**	8.9
B308	1.000	NC_ULS-Set B (auto).17	**-1.1**	-2.0	-2.3	0.8	-0.1	0.6	3.2
B308	1.000	NC_ULS-Set B (auto).26	**1.1**	-0.6	-1.0	0.4	0.1	0.6	1.6
B308	1.000	NC_ULS-Set B (auto).23	-0.1	**-5.9**	-2.0	**1.7**	0.0	1.3	**6.2**
B308	0.000	NC_ULS-Set B (auto).26	1.0	-0.2	**-1.0**	0.3	0.1	0.6	1.4
B308	1.000	NC_ULS-Set B (auto).30	0.0	**0.1**	-1.2	**-0.4**	0.0	0.2	1.2
B308	1.000	NC_ULS-Set B (auto).4	0.0	-5.1	**-2.3**	1.6	**-0.1**	**1.9**	5.6
B308	0.300	NC_ULS-Set B (auto).26	1.0	-0.3	-1.0	0.3	**0.1**	0.6	1.4
B308	0.000	NC_ULS-Set B (auto).29	0.0	-0.5	-1.4	-0.3	-0.1	**0.2**	1.5
B310	1.000	NC_ULS-Set B (auto).18	**-1.1**	-1.0	-1.4	0.5	-0.1	-0.8	2.0
B310	1.000	NC_ULS-Set B (auto).25	**1.1**	-1.6	-1.8	0.6	0.1	-0.4	2.6
B310	1.000	NC_ULS-Set B (auto).23	0.0	**-5.9**	-1.9	**1.7**	0.0	-1.3	**6.2**
B310	1.000	NC_ULS-Set B (auto).30	0.0	**0.1**	-1.2	**-0.4**	0.1	-0.2	1.2
B310	0.300	NC_ULS-Set B (auto).34	-1.0	-0.3	**-1.0**	0.4	**-0.1**	-0.6	1.4
B310	1.000	NC_ULS-Set B (auto).4	0.0	-5.2	**-2.2**	1.7	**0.2**	**-1.9**	5.6
B310	0.000	NC_ULS-Set B (auto).29	0.0	-0.5	-1.4	-0.3	0.1	**-0.2**	1.5
B318	1.000	NC_ULS-Set B (auto).18	**-1.1**	1.6	-2.0	-0.7	-0.1	-0.6	2.8
B318	1.000	NC_ULS-Set B (auto).25	**1.0**	0.9	-1.2	-0.5	0.1	-0.5	1.8
B318	1.000	NC_ULS-Set B (auto).38	0.0	**-0.3**	-1.1	**0.5**	-0.1	-0.2	1.2
B318	0.000	NC_ULS-Set B (auto).26	0.8	0.3	**-1.0**	-0.3	0.1	-0.6	1.3
B318	1.000	NC_ULS-Set B (auto).15	0.0	**5.7**	-1.8	**-1.9**	0.0	-1.3	**6.0**
B318	0.400	NC_ULS-Set B (auto).17	-1.0	1.4	-2.2	-0.7	**-0.2**	-0.6	2.8
B318	0.400	NC_ULS-Set B (auto).26	0.9	0.5	-1.0	-0.4	**0.2**	-0.6	1.4

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B318	1.000	NC_ULS-Set B (auto).4	-0.1	5.1	**-2.2**	-1.8	-0.2	**-1.8**	5.6
B318	0.000	NC_ULS-Set B (auto).37	0.1	0.3	-1.3	0.3	0.0	**-0.2**	1.3
B320	1.000	NC_ULS-Set B (auto).18	**-1.1**	2.9	-2.0	-1.0	0.0	-0.2	3.7
B320	0.000	NC_ULS-Set B (auto).9	**1.1**	2.0	-1.9	-1.1	-0.1	-0.4	3.0
B320	1.000	NC_ULS-Set B (auto).38	0.1	**-0.1**	-1.3	**0.6**	0.0	**0.1**	1.3
B320	0.000	NC_ULS-Set B (auto).30	-0.1	5.6	**-0.8**	-2.3	0.0	-0.8	5.7
B320	1.000	NC_ULS-Set B (auto).4	-0.1	**9.3**	**-2.6**	**-2.7**	-0.1	-0.9	**9.7**
B320	1.000	NC_ULS-Set B (auto).9	1.0	3.1	-2.0	-1.2	**-0.1**	-0.4	3.8
B320	1.000	NC_ULS-Set B (auto).30	0.0	8.0	-0.8	-2.4	**0.0**	-0.8	8.0
B320	1.000	NC_ULS-Set B (auto).7	0.0	8.7	-2.1	-2.5	-0.1	**-0.9**	8.9
B322	1.000	NC_ULS-Set B (auto).18	**-1.1**	3.2	-1.9	-1.1	0.0	0.0	3.9
B322	1.000	NC_ULS-Set B (auto).25	**1.0**	2.8	-1.7	-1.1	0.0	0.0	3.4
B322	1.000	NC_ULS-Set B (auto).38	0.1	**-0.3**	-1.3	**0.7**	0.0	**0.0**	1.3
B322	0.000	NC_ULS-Set B (auto).30	0.0	6.9	**-0.7**	-2.7	0.0	-0.3	6.9
B322	1.000	NC_ULS-Set B (auto).4	-0.1	**10.8**	**-2.7**	**-3.1**	0.0	-0.2	**11.1**
B322	0.100	NC_ULS-Set B (auto).17	-1.0	2.4	-2.2	-1.3	**0.0**	0.0	3.4
B322	0.100	NC_ULS-Set B (auto).25	1.0	1.8	-1.7	-1.0	**0.0**	0.0	2.7
B322	1.000	NC_ULS-Set B (auto).13	0.0	10.1	-1.7	-3.1	0.0	**-0.3**	10.2
B324	1.000	NC_ULS-Set B (auto).18	**-1.1**	3.2	-1.9	-1.1	0.0	0.0	3.9
B324	1.000	NC_ULS-Set B (auto).25	**1.0**	2.7	-1.7	-1.1	0.0	0.0	3.4
B324	0.000	NC_ULS-Set B (auto).30	0.0	6.9	**-0.7**	-2.6	0.0	0.3	6.9
B324	1.000	NC_ULS-Set B (auto).4	-0.1	**10.8**	**-2.7**	**-3.1**	0.0	0.2	**11.1**
B324	0.100	NC_ULS-Set B (auto).34	-1.1	1.6	-1.4	-0.8	**0.0**	0.0	2.4
B324	0.100	NC_ULS-Set B (auto).9	1.0	2.4	-2.2	-1.3	**0.0**	0.0	3.4
B324	1.000	NC_ULS-Set B (auto).38	0.1	**-0.3**	-1.3	**0.7**	0.0	**0.0**	1.3
B324	1.000	NC_ULS-Set B (auto).13	0.0	10.1	-1.7	-3.0	0.0	**0.3**	10.2
B326	0.000	NC_ULS-Set B (auto).18	**-1.2**	1.9	-1.7	-0.9	0.1	0.4	2.8
B326	1.000	NC_ULS-Set B (auto).25	**1.0**	2.4	-1.8	-1.0	0.0	0.2	3.2
B326	0.000	NC_ULS-Set B (auto).30	0.0	5.6	**-0.8**	-2.3	0.0	0.7	5.7
B326	1.000	NC_ULS-Set B (auto).4	-0.1	**9.3**	**-2.6**	**-2.7**	0.1	0.9	**9.7**
B326	1.000	NC_ULS-Set B (auto).30	0.0	8.0	-0.8	-2.4	**0.0**	0.7	8.1
B326	1.000	NC_ULS-Set B (auto).17	-1.1	3.1	-1.9	-1.2	**0.1**	0.4	3.8
B326	1.000	NC_ULS-Set B (auto).38	0.1	**-0.1**	-1.3	**0.5**	0.0	**-0.1**	1.3
B326	1.000	NC_ULS-Set B (auto).7	-0.1	8.6	-2.1	-2.5	0.1	**0.9**	8.9
B328	1.000	NC_ULS-Set B (auto).18	**-1.1**	1.0	-1.4	-0.5	-0.1	0.8	2.0
B328	1.000	NC_ULS-Set B (auto).25	**1.0**	1.5	-1.8	-0.6	0.1	0.4	2.5
B328	1.000	NC_ULS-Set B (auto).38	0.1	**-0.2**	-1.1	**0.4**	0.1	0.2	1.2
B328	1.000	NC_ULS-Set B (auto).4	-0.1	5.1	**-2.2**	-1.6	**0.2**	**1.9**	5.5

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B328	1.000	NC_ULS-Set B (auto).15	0.0	**5.8**	-1.9	**-1.7**	0.0	1.3	**6.1**
B328	0.300	NC_ULS-Set B (auto).34	-1.0	0.3	**-1.0**	-0.4	**-0.1**	0.6	1.4
B328	0.000	NC_ULS-Set B (auto).37	0.0	0.5	-1.3	0.3	0.1	**0.2**	1.4
B332	1.000	NC_ULS-Set B (auto).15	**-6.9**	1.5	-3.1	-0.5	-2.0	2.1	**7.7**
B332	1.000	NC_ULS-Set B (auto).26	**6.0**	-0.1	-2.1	-0.2	1.8	-1.9	6.4
B332	0.000	NC_ULS-Set B (auto).22	-2.7	**-2.0**	-1.8	-0.2	-1.0	1.0	3.8
B332	1.000	NC_ULS-Set B (auto).13	-6.7	1.8	**-3.2**	-0.4	-2.0	2.1	7.7
B332	1.000	NC_ULS-Set B (auto).4	-1.4	0.0	-3.0	**-0.5**	-0.4	-0.1	3.3
B332	0.000	NC_ULS-Set B (auto).38	-2.7	-1.9	**-1.2**	**-0.2**	-0.9	1.0	3.5
B332	0.600	NC_ULS-Set B (auto).15	-6.1	1.3	-3.1	-0.5	**-2.0**	2.1	6.9
B332	0.600	NC_ULS-Set B (auto).26	5.3	-0.1	-2.1	-0.2	**1.8**	-1.9	5.7
B332	1.000	NC_ULS-Set B (auto).10	5.9	-0.1	-2.7	-0.3	1.8	**-1.9**	6.5
B332	1.000	NC_ULS-Set B (auto).29	-6.6	**1.9**	-2.5	-0.4	-1.9	**2.1**	7.3
B334	1.000	NC_ULS-Set B (auto).15	**-11.2**	1.5	-4.0	-0.2	-3.1	0.8	**11.9**
B334	1.000	NC_ULS-Set B (auto).26	**10.5**	-0.1	-2.8	-0.2	2.9	-0.9	10.8
B334	0.000	NC_ULS-Set B (auto).38	-4.1	**-2.0**	**-2.1**	-0.2	-1.5	0.4	5.0
B334	1.000	NC_ULS-Set B (auto).29	-11.0	**1.9**	-3.1	-0.1	-3.0	0.8	11.6
B334	1.000	NC_ULS-Set B (auto).4	-0.9	0.0	**-4.5**	**-0.4**	-0.3	-0.2	4.6
B334	1.000	NC_ULS-Set B (auto).30	-5.8	1.8	-2.8	**0.0**	-1.6	0.3	6.7
B334	0.500-	NC_ULS-Set B (auto).15	-9.6	1.3	-4.0	-0.2	**-3.1**	0.8	10.5
B334	0.500-	NC_ULS-Set B (auto).26	9.0	-0.1	-2.7	-0.2	**2.9**	-0.9	9.4
B334	1.000	NC_ULS-Set B (auto).10	10.4	-0.1	-3.6	-0.2	2.9	**-1.0**	11.0
B334	1.000	NC_ULS-Set B (auto).37	-10.7	-1.7	-2.4	-0.3	-2.9	**0.8**	11.1
B336	1.000	NC_ULS-Set B (auto).15	**-11.8**	1.5	-4.2	0.1	-3.3	-0.3	**12.6**
B336	1.000	NC_ULS-Set B (auto).26	**11.3**	-0.1	-3.0	0.0	3.1	0.4	11.7
B336	0.000	NC_ULS-Set B (auto).38	-4.2	**-1.8**	-2.7	0.0	-1.6	-0.2	5.3
B336	0.000	NC_ULS-Set B (auto).29	-8.4	**2.0**	-2.9	0.1	-3.2	-0.4	9.1
B336	1.000	NC_ULS-Set B (auto).4	-0.6	0.1	**-5.1**	0.1	-0.3	0.1	5.1
B336	0.000	NC_ULS-Set B (auto).30	-4.4	1.9	**-2.6**	0.1	-1.7	-0.2	5.4
B336	1.000	NC_ULS-Set B (auto).38	-5.8	-1.7	-2.8	**-0.1**	-1.6	-0.2	6.7
B336	1.000	NC_ULS-Set B (auto).13	-11.7	1.8	-3.9	**0.2**	-3.2	-0.4	12.4
B336	0.600	NC_ULS-Set B (auto).15	-10.4	1.5	-4.2	0.1	**-3.3**	-0.3	11.3
B336	0.500-	NC_ULS-Set B (auto).26	9.8	0.0	-3.0	0.0	**3.2**	0.4	10.2
B336	1.000	NC_ULS-Set B (auto).39	-11.5	-1.3	-3.3	0.0	-3.2	**-0.4**	12.0
B336	1.000	NC_ULS-Set B (auto).10	11.3	0.0	-3.9	0.0	3.1	**0.4**	12.0
B338	1.000	NC_ULS-Set B (auto).15	**-9.1**	1.5	-3.2	0.4	-2.6	-1.4	**9.8**
B338	1.000	NC_ULS-Set B (auto).26	**8.4**	0.0	-2.6	0.2	2.4	1.5	8.8
B338	0.000	NC_ULS-Set B (auto).13	-6.4	**2.2**	-2.9	0.3	-2.5	-1.5	7.3

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B338	1.000	NC_ULS-Set B (auto).4	-1.2	0.1	**-4.1**	**0.5**	-0.3	0.3	4.2
B338	0.000	NC_ULS-Set B (auto).30	-3.5	2.1	**-1.8**	0.2	-1.3	-0.7	4.5
B338	1.000	NC_ULS-Set B (auto).38	-4.4	**-1.7**	-2.8	**0.1**	-1.3	-0.7	5.5
B338	0.600	NC_ULS-Set B (auto).15	-8.1	1.6	-3.2	0.4	**-2.6**	-1.4	8.9
B338	0.600	NC_ULS-Set B (auto).26	7.5	0.0	-2.6	0.2	**2.5**	1.5	7.9
B338	1.000	NC_ULS-Set B (auto).37	-8.5	-1.7	-3.0	0.2	-2.5	**-1.5**	9.2
B338	1.000	NC_ULS-Set B (auto).10	8.3	0.0	-3.4	0.3	2.4	**1.6**	9.0
B340	1.000	NC_ULS-Set B (auto).38	-7.7	**0.0**	-2.1	**0.0**	-3.2	-0.1	7.9
B340	1.000	NC_ULS-Set B (auto).21	-12.2	0.0	**-2.7**	0.0	-5.1	-0.2	12.5
B340	0.000	NC_ULS-Set B (auto).29	-6.7	0.1	**-0.8**	0.0	-4.7	-0.1	6.7
B340	1.000	NC_ULS-Set B (auto).13	-10.6	**0.1**	-1.5	**0.0**	-4.0	-0.1	10.7
B340	1.000	NC_ULS-Set B (auto).37	**-12.3**	0.0	-2.2	0.0	**-5.1**	-0.2	12.5
B340	1.000	NC_ULS-Set B (auto).23	-12.1	0.0	-2.6	0.0	-5.1	**-0.2**	12.4
B340	1.000	NC_ULS-Set B (auto).26	**13.2**	0.0	-1.6	0.0	**5.1**	**0.2**	**13.3**
B342	1.000	NC_ULS-Set B (auto).38	2.4	**-1.7**	-2.0	0.5	0.7	1.2	3.6
B342	0.000	NC_ULS-Set B (auto).13	2.9	**1.9**	-1.6	0.1	1.1	2.1	3.8
B342	1.000	NC_ULS-Set B (auto).21	4.2	-1.7	**-2.7**	0.6	1.3	2.2	**5.2**
B342	0.000	NC_ULS-Set B (auto).30	1.8	1.8	**-1.0**	**0.0**	0.5	1.1	2.7
B342	0.800	NC_ULS-Set B (auto).21	3.9	-1.6	-2.7	**0.6**	1.3	2.2	5.0
B342	0.800	NC_ULS-Set B (auto).18	-3.7	0.1	-2.5	0.3	**-1.4**	-1.9	4.4
B342	0.600	NC_ULS-Set B (auto).39	3.7	-1.2	-2.0	0.5	**1.3**	2.2	4.4
B342	1.000	NC_ULS-Set B (auto).34	**-4.0**	0.0	-1.9	0.2	-1.4	**-1.9**	4.5
B342	1.000	NC_ULS-Set B (auto).23	**4.3**	-1.3	-2.6	0.6	1.3	**2.2**	5.2
B344	1.000	NC_ULS-Set B (auto).34	**-9.4**	0.0	-2.5	0.2	-2.7	-1.4	9.7
B344	0.000	NC_ULS-Set B (auto).13	6.9	**2.1**	-2.8	0.3	2.6	1.3	7.7
B344	1.000	NC_ULS-Set B (auto).4	0.8	0.0	**-4.1**	**0.5**	0.2	-0.2	4.1
B344	0.000	NC_ULS-Set B (auto).30	3.6	2.0	**-1.8**	0.2	1.3	0.6	4.6
B344	1.000	NC_ULS-Set B (auto).38	5.1	**-1.7**	-2.8	**0.1**	1.4	0.6	6.1
B344	0.600	NC_ULS-Set B (auto).34	-8.3	0.1	-2.5	0.2	**-2.8**	-1.4	8.7
B344	0.600	NC_ULS-Set B (auto).23	8.7	-1.2	-3.8	0.3	**2.7**	1.3	9.5
B344	1.000	NC_ULS-Set B (auto).18	-9.3	0.0	-3.4	0.3	-2.7	**-1.4**	9.9
B344	1.000	NC_ULS-Set B (auto).29	9.5	1.8	-2.0	0.4	2.6	**1.3**	9.9
B344	1.000	NC_ULS-Set B (auto).23	**9.8**	-1.3	-3.8	0.3	2.7	1.3	**10.6**
B346	1.000	NC_ULS-Set B (auto).34	**-11.8**	0.0	-3.0	0.0	-3.3	-0.2	12.2
B346	0.000	NC_ULS-Set B (auto).38	4.4	**-1.8**	-2.8	0.0	1.7	0.1	5.5
B346	0.000	NC_ULS-Set B (auto).29	8.5	**1.9**	-2.9	0.1	3.3	0.3	9.2
B346	1.000	NC_ULS-Set B (auto).4	0.4	0.0	**-5.0**	0.1	0.2	0.0	5.1
B346	0.000	NC_ULS-Set B (auto).30	4.4	1.9	**-2.6**	0.1	1.7	0.1	5.4

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B346	1.000	NC_ULS-Set B (auto).38	6.1	-1.7	-2.8	**-0.1**	1.7	0.1	6.9
B346	0.600	NC_ULS-Set B (auto).34	-10.4	0.0	-3.0	0.0	**-3.4**	-0.2	10.9
B346	0.600	NC_ULS-Set B (auto).15	10.6	1.4	-4.2	0.1	**3.4**	0.3	11.5
B346	1.000	NC_ULS-Set B (auto).18	-11.8	0.0	-3.9	0.0	-3.3	**-0.2**	12.4
B346	1.000	NC_ULS-Set B (auto).13	11.9	1.7	-3.9	**0.2**	3.3	**0.3**	12.6
B346	1.000	NC_ULS-Set B (auto).15	**11.9**	1.3	-4.2	0.1	3.3	0.3	**12.7**
B348	1.000	NC_ULS-Set B (auto).34	**-10.6**	0.0	-2.8	-0.2	-3.1	1.0	11.0
B348	0.000	NC_ULS-Set B (auto).21	7.8	**-2.0**	-3.3	-0.3	3.0	-0.9	8.7
B348	1.000	NC_ULS-Set B (auto).29	11.0	**1.8**	-3.1	-0.1	3.1	-0.9	11.6
B348	0.000	NC_ULS-Set B (auto).38	4.1	-2.0	**-2.1**	-0.2	1.5	-0.4	5.0
B348	1.000	NC_ULS-Set B (auto).4	0.8	0.0	**-4.5**	**-0.4**	0.2	0.2	4.6
B348	1.000	NC_ULS-Set B (auto).30	5.8	1.8	-2.8	**0.0**	1.6	-0.4	6.7
B348	0.600	NC_ULS-Set B (auto).34	-9.4	-0.1	-2.7	-0.1	**-3.1**	1.0	9.8
B348	0.500-	NC_ULS-Set B (auto).15	9.6	1.2	-4.0	-0.2	**3.1**	-0.8	10.5
B348	1.000	NC_ULS-Set B (auto).37	10.8	-1.7	-2.4	-0.3	3.0	**-0.9**	11.2
B348	1.000	NC_ULS-Set B (auto).18	-10.6	0.0	-3.6	-0.2	-3.0	**1.0**	11.2
B348	1.000	NC_ULS-Set B (auto).15	**11.1**	1.3	-4.0	-0.2	3.1	-0.8	**11.9**
B350	1.000	NC_ULS-Set B (auto).34	**-6.1**	0.0	-2.2	-0.2	-2.0	1.9	6.5
B350	1.000	NC_ULS-Set B (auto).15	**6.8**	1.3	-3.1	-0.5	1.9	-2.1	7.6
B350	0.000	NC_ULS-Set B (auto).21	4.7	**-2.0**	-2.0	-0.3	1.7	-2.0	5.5
B350	1.000	NC_ULS-Set B (auto).13	6.7	1.7	**-3.2**	-0.4	1.9	-2.1	**7.6**
B350	1.000	NC_ULS-Set B (auto).4	1.3	0.0	-3.0	**-0.5**	0.2	0.1	3.3
B350	0.000	NC_ULS-Set B (auto).38	2.7	-1.9	**-1.2**	**-0.1**	0.9	-1.0	3.5
B350	0.700	NC_ULS-Set B (auto).34	-5.5	-0.1	-2.2	-0.2	**-2.0**	1.9	5.9
B350	0.600	NC_ULS-Set B (auto).15	6.0	1.2	-3.0	-0.5	**1.9**	-2.1	6.9
B350	1.000	NC_ULS-Set B (auto).29	6.6	**1.8**	-2.5	-0.4	1.9	**-2.1**	7.3
B350	1.000	NC_ULS-Set B (auto).18	-6.0	0.0	-2.8	-0.3	-2.0	**1.9**	6.6
B352	1.000	NC_ULS-Set B (auto).17	**-1.1**	-3.6	-2.2	1.3	0.0	0.0	4.3
B352	1.000	NC_ULS-Set B (auto).26	**1.1**	-2.3	-1.4	0.8	0.0	0.0	2.9
B352	1.000	NC_ULS-Set B (auto).4	0.0	**-10.7**	**-2.7**	**3.1**	0.0	0.2	**11.1**
B352	0.000	NC_ULS-Set B (auto).38	-0.1	-6.9	**-0.7**	2.6	0.0	0.3	6.9
B352	0.100	NC_ULS-Set B (auto).17	-1.1	-2.4	-2.2	1.3	**0.0**	0.0	3.4
B352	0.100	NC_ULS-Set B (auto).25	1.0	-1.8	-1.7	1.0	**0.0**	0.0	2.7
B352	1.000	NC_ULS-Set B (auto).30	0.0	**0.3**	-1.3	**-0.7**	0.0	**0.0**	1.3
B352	1.000	NC_ULS-Set B (auto).21	0.0	-10.1	-1.7	3.0	0.0	**0.3**	10.2
B389	0.000	NC_ULS-Set B (auto).38	0.0	**-1.7**	-1.3	**0.5**	0.0	1.3	2.2
B389	0.000	NC_ULS-Set B (auto).29	-0.1	**1.9**	-0.9	-0.7	-0.3	1.6	2.1
B389	3.000	NC_ULS-Set B (auto).13	-6.7	1.8	**-3.2**	-0.4	-2.0	2.1	7.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B389	0.000	NC_ULS-Set B (auto).34	-1.1	0.0	**-0.9**	-0.2	-0.5	0.3	1.4
B389	0.000	NC_ULS-Set B (auto).13	-0.1	1.8	-1.3	**-0.8**	-0.4	1.7	2.2
B389	3.000	NC_ULS-Set B (auto).15	**-6.9**	1.5	-3.1	-0.5	**-2.0**	2.1	**7.7**
B389	3.000	NC_ULS-Set B (auto).26	**6.0**	-0.1	-2.1	-0.2	**1.8**	-1.9	6.4
B389	2.400	NC_ULS-Set B (auto).26	4.9	-0.1	-2.0	-0.2	1.5	**-2.0**	5.2
B389	1.800	NC_ULS-Set B (auto).15	-4.1	1.5	-2.4	-0.6	-1.3	**2.4**	5.0
B390	0.000	NC_ULS-Set B (auto).38	-3.6	**-1.7**	**-1.2**	-0.2	-0.9	1.0	4.2
B390	3.000	NC_ULS-Set B (auto).4	-0.9	0.0	**-4.5**	-0.4	-0.3	-0.2	4.6
B390	0.300	NC_ULS-Set B (auto).4	-1.4	0.0	-3.1	**-0.6**	-0.3	-0.1	3.4
B390	3.000	NC_ULS-Set B (auto).30	-5.8	1.8	-2.8	**0.0**	-1.6	0.3	6.7
B390	3.000	NC_ULS-Set B (auto).15	**-11.2**	1.5	-4.0	-0.2	**-3.1**	0.8	**11.9**
B390	3.000	NC_ULS-Set B (auto).26	**10.5**	-0.1	-2.8	-0.2	**2.9**	-0.9	10.8
B390	0.000	NC_ULS-Set B (auto).10	5.9	-0.1	-2.7	-0.3	1.8	**-1.9**	6.5
B390	0.000	NC_ULS-Set B (auto).29	-6.6	**1.9**	-2.5	-0.4	-1.9	**2.1**	7.3
B391	2.100	NC_ULS-Set B (auto).15	**-11.9**	1.5	-4.3	0.0	-3.2	0.0	**12.7**
B391	2.100	NC_ULS-Set B (auto).26	**11.5**	-0.1	-3.0	0.0	3.1	0.0	11.9
B391	0.000	NC_ULS-Set B (auto).38	-5.6	**-1.7**	**-2.1**	-0.3	-1.5	0.4	6.2
B391	0.000	NC_ULS-Set B (auto).29	-11.0	**1.9**	-3.1	-0.1	-3.0	0.8	11.6
B391	2.700	NC_ULS-Set B (auto).4	-0.6	0.1	**-5.1**	0.0	-0.3	0.0	5.1
B391	0.000	NC_ULS-Set B (auto).4	-0.9	0.0	-4.5	**-0.4**	-0.3	-0.2	4.6
B391	3.000	NC_ULS-Set B (auto).13	-11.7	1.8	-3.9	**0.2**	-3.2	-0.4	12.4
B391	3.000	NC_ULS-Set B (auto).15	-11.8	1.5	-4.2	0.1	**-3.3**	-0.3	12.6
B391	3.000	NC_ULS-Set B (auto).26	11.3	-0.1	-3.0	0.0	**3.1**	0.4	11.7
B391	0.000	NC_ULS-Set B (auto).10	10.4	-0.1	-3.6	-0.2	2.9	**-1.0**	11.0
B391	0.000	NC_ULS-Set B (auto).37	-10.7	-1.7	-2.4	-0.3	-2.9	**0.8**	11.1
B392	3.000	NC_ULS-Set B (auto).29	-8.9	**1.9**	-2.0	0.4	-2.5	-1.5	9.3
B392	0.000	NC_ULS-Set B (auto).4	-0.6	0.1	**-5.1**	0.1	-0.3	0.1	5.1
B392	3.000	NC_ULS-Set B (auto).30	-4.9	1.8	**-1.9**	0.3	-1.3	-0.7	5.5
B392	0.000	NC_ULS-Set B (auto).38	-5.8	**-1.7**	-2.8	**-0.1**	-1.6	-0.2	6.7
B392	3.000	NC_ULS-Set B (auto).4	-1.2	0.1	-4.1	**0.5**	-0.3	0.3	4.2
B392	0.000	NC_ULS-Set B (auto).15	**-11.8**	1.5	-4.2	0.1	**-3.3**	-0.3	**12.6**
B392	0.000	NC_ULS-Set B (auto).26	**11.3**	-0.1	-3.0	0.0	**3.1**	0.4	11.7
B392	3.000	NC_ULS-Set B (auto).37	-8.5	-1.7	-3.0	0.2	-2.5	**-1.5**	9.2
B392	3.000	NC_ULS-Set B (auto).10	8.3	0.0	-3.4	0.3	2.4	**1.6**	9.0
B393	3.000	NC_ULS-Set B (auto).38	-1.7	**-1.7**	-2.0	0.5	-0.6	-1.0	3.2
B393	0.000	NC_ULS-Set B (auto).4	-1.2	0.1	**-4.1**	0.5	-0.3	0.3	4.2
B393	3.000	NC_ULS-Set B (auto).30	-2.2	**1.9**	**-1.0**	0.1	-0.5	-1.0	3.1
B393	0.000	NC_ULS-Set B (auto).38	-4.4	-1.7	-2.8	**0.1**	-1.3	-0.7	5.5

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B393	3.000	NC_ULS-Set B (auto).21	-3.2	-1.6	-2.6	**0.6**	-1.2	-1.9	4.4
B393	0.000	NC_ULS-Set B (auto).15	**-9.1**	1.5	-3.2	0.4	**-2.6**	-1.4	**9.8**
B393	0.000	NC_ULS-Set B (auto).26	**8.4**	0.0	-2.6	0.2	**2.4**	1.5	8.8
B393	3.000	NC_ULS-Set B (auto).15	-3.8	1.5	-1.9	0.3	-1.1	**-2.0**	4.5
B393	1.500-	NC_ULS-Set B (auto).10	5.7	0.0	-3.0	0.3	1.8	**1.8**	6.4
B394	2.000	NC_ULS-Set B (auto).38	0.0	**-1.7**	**-0.8**	0.7	-0.2	-0.8	1.9
B394	0.000	NC_ULS-Set B (auto).21	-3.2	-1.6	**-2.6**	0.6	-1.2	-1.9	4.4
B394	2.000	NC_ULS-Set B (auto).30	0.0	**1.9**	-1.3	**-0.5**	0.0	-1.2	2.3
B394	2.000	NC_ULS-Set B (auto).21	0.1	-1.6	-1.2	**0.7**	-0.3	-1.3	2.0
B394	0.000	NC_ULS-Set B (auto).23	-3.3	-1.2	-2.5	0.6	**-1.2**	-1.9	4.4
B394	0.000	NC_ULS-Set B (auto).15	**-3.8**	1.5	-1.9	0.3	-1.1	**-2.0**	**4.5**
B394	0.000	NC_ULS-Set B (auto).26	**3.2**	0.0	-1.9	0.2	**1.1**	**1.6**	3.7
B395	0.000	NC_ULS-Set B (auto).38	0.0	**-1.8**	-1.4	**0.5**	-0.1	-1.3	2.2
B395	0.000	NC_ULS-Set B (auto).29	0.0	**1.8**	-0.9	-0.7	0.3	-1.6	2.0
B395	3.000	NC_ULS-Set B (auto).13	6.7	1.7	**-3.2**	-0.4	1.9	-2.1	**7.6**
B395	0.000	NC_ULS-Set B (auto).26	1.1	0.0	**-0.8**	-0.2	0.4	-0.3	1.3
B395	0.000	NC_ULS-Set B (auto).13	0.0	1.7	-1.3	**-0.7**	0.2	-1.7	2.2
B395	3.000	NC_ULS-Set B (auto).34	**-6.1**	0.0	-2.2	-0.2	**-2.0**	1.9	6.5
B395	3.000	NC_ULS-Set B (auto).15	**6.8**	1.3	-3.1	-0.5	**1.9**	-2.1	7.6
B395	1.800	NC_ULS-Set B (auto).15	4.0	1.4	-2.4	-0.5	1.2	**-2.4**	4.9
B395	2.400	NC_ULS-Set B (auto).34	-4.9	0.0	-2.1	-0.2	-1.7	**2.0**	5.3
B396	0.000	NC_ULS-Set B (auto).38	3.6	**-1.8**	**-1.2**	-0.2	0.9	-1.0	4.2
B396	3.000	NC_ULS-Set B (auto).4	0.8	0.0	**-4.5**	-0.4	0.2	0.2	4.6
B396	0.600	NC_ULS-Set B (auto).4	1.3	0.0	-3.3	**-0.5**	0.2	0.1	3.6
B396	3.000	NC_ULS-Set B (auto).30	5.8	1.8	-2.8	**0.0**	1.6	-0.4	6.7
B396	3.000	NC_ULS-Set B (auto).34	**-10.6**	0.0	-2.8	-0.2	**-3.1**	1.0	11.0
B396	0.000	NC_ULS-Set B (auto).29	6.6	**1.8**	-2.5	-0.4	1.9	**-2.1**	7.3
B396	0.000	NC_ULS-Set B (auto).18	-6.0	0.0	-2.8	-0.3	-2.0	**1.9**	6.6
B396	3.000	NC_ULS-Set B (auto).15	**11.1**	1.3	-4.0	-0.2	**3.1**	-0.8	**11.9**
B397	2.400	NC_ULS-Set B (auto).34	**-11.8**	0.0	-3.0	0.0	-3.3	0.0	12.2
B397	0.000	NC_ULS-Set B (auto).38	5.6	**-1.8**	**-2.1**	-0.3	1.5	-0.4	6.3
B397	0.000	NC_ULS-Set B (auto).29	11.0	**1.8**	-3.1	-0.1	3.1	-0.9	11.6
B397	2.700	NC_ULS-Set B (auto).4	0.4	0.0	**-5.1**	0.0	0.2	0.0	5.1
B397	0.000	NC_ULS-Set B (auto).4	0.8	0.0	-4.5	**-0.4**	0.2	0.2	4.6
B397	3.000	NC_ULS-Set B (auto).13	11.9	1.7	-3.9	**0.2**	3.3	0.3	12.6
B397	3.000	NC_ULS-Set B (auto).34	-11.8	0.0	-3.0	0.0	**-3.3**	-0.2	12.2
B397	3.000	NC_ULS-Set B (auto).15	11.9	1.3	-4.2	0.1	**3.3**	0.3	12.7
B397	0.000	NC_ULS-Set B (auto).37	10.8	-1.7	-2.4	-0.3	3.0	**-0.9**	11.2

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B397	0.000	NC_ULS-Set B (auto).18	-10.6	0.0	-3.6	-0.2	-3.0	**1.0**	11.2
B397	2.100	NC_ULS-Set B (auto).15	**12.0**	1.3	-4.3	0.0	3.3	0.0	**12.8**
B398	0.000	NC_ULS-Set B (auto).4	0.4	0.0	**-5.0**	0.1	0.2	0.0	5.1
B398	3.000	NC_ULS-Set B (auto).30	5.0	**1.8**	**-1.8**	0.3	1.3	0.6	5.6
B398	0.000	NC_ULS-Set B (auto).38	6.1	**-1.7**	-2.8	**-0.1**	1.7	0.1	6.9
B398	3.000	NC_ULS-Set B (auto).4	0.8	0.0	-4.1	**0.5**	0.2	-0.2	4.1
B398	0.000	NC_ULS-Set B (auto).34	**-11.8**	0.0	-3.0	0.0	**-3.3**	-0.2	12.2
B398	3.000	NC_ULS-Set B (auto).18	-9.3	0.0	-3.4	0.3	-2.7	**-1.4**	9.9
B398	3.000	NC_ULS-Set B (auto).29	9.5	1.8	-2.0	0.4	2.6	**1.3**	9.9
B398	0.000	NC_ULS-Set B (auto).15	**11.9**	1.3	-4.2	0.1	**3.3**	0.3	**12.7**
B399	0.000	NC_ULS-Set B (auto).38	5.1	**-1.7**	-2.8	0.1	1.4	0.6	6.1
B399	0.000	NC_ULS-Set B (auto).4	0.8	0.0	**-4.1**	0.5	0.2	-0.2	4.1
B399	3.050	NC_ULS-Set B (auto).30	2.3	**1.8**	**-1.0**	**0.1**	0.5	1.1	3.1
B399	3.050	NC_ULS-Set B (auto).21	4.2	-1.7	-2.7	**0.6**	1.3	2.2	5.2
B399	0.000	NC_ULS-Set B (auto).34	**-9.4**	0.0	-2.5	0.2	**-2.7**	-1.4	9.7
B399	2.745	NC_ULS-Set B (auto).34	-4.6	0.0	-2.0	0.2	-1.6	**-1.9**	5.0
B399	3.050	NC_ULS-Set B (auto).23	4.3	-1.3	-2.6	0.6	1.3	**2.2**	5.2
B399	0.000	NC_ULS-Set B (auto).23	**9.8**	-1.3	-3.8	0.3	**2.7**	1.3	**10.6**
B400	0.000	NC_ULS-Set B (auto).23	**4.3**	-1.3	-2.6	0.6	1.3	2.2	5.2
B400	1.950	NC_ULS-Set B (auto).38	0.1	**-1.8**	-0.8	0.7	0.1	1.0	1.9
B400	0.000	NC_ULS-Set B (auto).21	4.2	-1.7	**-2.7**	0.6	1.3	2.2	**5.2**
B400	1.950	NC_ULS-Set B (auto).26	1.0	0.0	**-0.8**	0.2	0.4	0.2	1.2
B400	1.950	NC_ULS-Set B (auto).30	0.0	**1.8**	-1.4	**-0.6**	-0.2	1.2	2.3
B400	1.950	NC_ULS-Set B (auto).21	0.1	-1.7	-1.3	**0.8**	0.2	1.6	2.1
B400	0.000	NC_ULS-Set B (auto).18	-4.0	0.0	-2.5	0.3	**-1.4**	-1.9	4.7
B400	0.000	NC_ULS-Set B (auto).39	4.2	-1.4	-2.0	0.5	**1.3**	2.2	4.9
B400	0.000	NC_ULS-Set B (auto).34	**-4.0**	0.0	-1.9	0.2	-1.4	**-1.9**	4.5
B400	0.390	NC_ULS-Set B (auto).23	3.4	-1.3	-2.3	0.6	1.1	**2.3**	4.3
B401	0.000	NC_ULS-Set B (auto).38	0.1	**-1.8**	-0.8	0.7	0.1	1.0	1.9
B401	2.850	NC_ULS-Set B (auto).4	-0.1	5.1	**-2.2**	-1.6	0.2	1.9	5.5
B401	0.000	NC_ULS-Set B (auto).26	1.0	0.0	**-0.8**	0.2	0.4	0.2	1.2
B401	2.850	NC_ULS-Set B (auto).15	0.0	**5.8**	-1.9	**-1.7**	0.0	1.3	**6.1**
B401	0.000	NC_ULS-Set B (auto).21	0.1	-1.7	-1.3	**0.8**	0.2	1.6	2.1
B401	0.000	NC_ULS-Set B (auto).18	**-1.1**	0.0	-2.1	0.1	**-0.5**	-0.7	2.4
B401	0.000	NC_ULS-Set B (auto).25	**1.0**	0.0	-0.8	0.2	**0.5**	0.8	1.3
B401	0.000	NC_ULS-Set B (auto).34	-1.1	0.0	-1.7	0.0	-0.5	**-0.8**	2.0
B401	1.995	NC_ULS-Set B (auto).4	-0.1	3.4	-2.0	-1.1	0.2	**2.0**	4.0
B402	0.000	NC_ULS-Set B (auto).18	**-1.1**	1.0	-1.4	-0.5	-0.1	0.8	2.0

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B402	0.000	NC_ULS-Set B (auto).25	**1.0**	1.5	-1.8	-0.6	0.1	0.4	2.5
B402	0.000	NC_ULS-Set B (auto).38	0.1	**-0.2**	-1.1	0.4	0.1	0.2	1.2
B402	3.000	NC_ULS-Set B (auto).30	0.0	8.0	**-0.8**	-2.4	0.0	0.7	8.1
B402	3.000	NC_ULS-Set B (auto).4	-0.1	**9.3**	**-2.6**	**-2.7**	0.1	0.9	**9.7**
B402	0.000	NC_ULS-Set B (auto).34	-1.1	0.5	-1.0	-0.4	**-0.1**	0.6	1.6
B402	1.800	NC_ULS-Set B (auto).17	-1.1	2.5	-1.8	-1.0	**0.2**	0.6	3.2
B402	3.000	NC_ULS-Set B (auto).38	0.1	-0.1	-1.3	**0.5**	0.0	**-0.1**	1.3
B402	0.000	NC_ULS-Set B (auto).4	-0.1	5.1	-2.2	-1.6	0.2	**1.9**	5.5
B403	0.000	NC_ULS-Set B (auto).18	**-1.1**	2.8	-1.7	-0.9	0.1	0.4	3.5
B403	0.000	NC_ULS-Set B (auto).25	**1.0**	2.4	-1.8	-1.0	0.0	0.2	3.2
B403	3.000	NC_ULS-Set B (auto).38	0.1	**-0.3**	-1.3	**0.7**	0.0	0.0	1.3
B403	3.000	NC_ULS-Set B (auto).30	0.0	9.6	**-0.7**	-2.8	0.0	0.3	9.6
B403	3.000	NC_ULS-Set B (auto).4	-0.1	**10.8**	**-2.7**	**-3.1**	0.0	0.2	**11.1**
B403	1.500-	NC_ULS-Set B (auto).26	0.9	2.3	-1.5	-0.8	**0.0**	0.0	2.9
B403	0.600	NC_ULS-Set B (auto).17	-1.1	3.3	-2.0	-1.2	**0.1**	0.3	4.0
B403	0.300	NC_ULS-Set B (auto).38	0.1	-0.1	-1.3	0.6	0.0	**-0.1**	1.3
B403	0.000	NC_ULS-Set B (auto).7	-0.1	8.6	-2.1	-2.5	0.1	**0.9**	8.9
B404	0.000	NC_ULS-Set B (auto).18	**-1.1**	3.2	-1.9	-1.1	0.0	0.0	3.9
B404	0.000	NC_ULS-Set B (auto).25	**1.0**	2.7	-1.7	-1.1	0.0	0.0	3.4
B404	1.500-	NC_ULS-Set B (auto).38	0.1	**-0.3**	-1.3	**0.7**	0.0	0.0	1.3
B404	1.500-	NC_ULS-Set B (auto).4	-0.1	**10.9**	**-2.7**	-3.1	0.0	0.0	**11.2**
B404	2.100	NC_ULS-Set B (auto).30	0.0	9.7	**-0.7**	-2.8	0.0	-0.1	9.8
B404	3.000	NC_ULS-Set B (auto).4	-0.1	10.8	-2.7	**-3.1**	0.0	-0.2	11.1
B404	3.000	NC_ULS-Set B (auto).17	-1.1	3.6	-2.2	-1.3	**0.0**	0.0	4.3
B404	1.200	NC_ULS-Set B (auto).17	-1.1	3.6	-2.2	-1.3	**0.0**	0.0	4.4
B404	3.000	NC_ULS-Set B (auto).13	0.0	10.1	-1.7	-3.1	0.0	**-0.3**	10.2
B404	0.000	NC_ULS-Set B (auto).13	0.0	10.1	-1.7	-3.0	0.0	**0.3**	10.2
B405	0.000	NC_ULS-Set B (auto).18	**-1.1**	3.2	-1.9	-1.1	0.0	0.0	3.9
B405	3.000	NC_ULS-Set B (auto).25	**1.0**	2.4	-1.5	-0.9	-0.1	-0.3	3.0
B405	0.000	NC_ULS-Set B (auto).38	0.1	**-0.3**	-1.3	**0.7**	0.0	0.0	1.3
B405	0.000	NC_ULS-Set B (auto).30	0.0	9.6	**-0.7**	-2.8	0.0	-0.3	9.6
B405	0.000	NC_ULS-Set B (auto).4	-0.1	**10.8**	**-2.7**	**-3.1**	0.0	-0.2	**11.1**
B405	2.700	NC_ULS-Set B (auto).9	1.0	3.2	-2.0	-1.2	**-0.1**	-0.3	3.9
B405	3.000	NC_ULS-Set B (auto).30	0.0	8.0	-0.8	-2.4	**0.0**	-0.8	8.0
B405	3.000	NC_ULS-Set B (auto).7	0.0	8.7	-2.1	-2.5	-0.1	**-0.9**	8.9
B405	1.800	NC_ULS-Set B (auto).38	0.1	-0.2	-1.3	0.6	0.0	**0.1**	1.3
B406	3.000	NC_ULS-Set B (auto).18	**-1.1**	1.6	-2.0	-0.7	-0.1	-0.6	2.8
B406	3.000	NC_ULS-Set B (auto).25	**1.0**	0.9	-1.2	-0.5	0.1	-0.5	1.8

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B406	3.000	NC_ULS-Set B (auto).38	0.0	**-0.3**	-1.1	0.5	-0.1	-0.2	1.2
B406	0.000	NC_ULS-Set B (auto).30	0.0	8.0	**-0.8**	-2.4	0.0	-0.8	8.0
B406	0.000	NC_ULS-Set B (auto).4	-0.1	**9.3**	**-2.6**	**-2.7**	-0.1	-0.9	**9.7**
B406	1.200	NC_ULS-Set B (auto).9	1.0	2.6	-1.8	-1.0	**-0.2**	-0.6	3.3
B406	3.000	NC_ULS-Set B (auto).26	1.0	0.7	-1.0	-0.4	**0.1**	-0.6	1.5
B406	3.000	NC_ULS-Set B (auto).4	-0.1	5.1	-2.2	-1.8	-0.2	**-1.8**	5.6
B406	0.000	NC_ULS-Set B (auto).38	0.1	-0.1	-1.3	**0.6**	0.0	**0.1**	1.3
B407	2.850	NC_ULS-Set B (auto).18	**-1.1**	0.0	-1.2	0.2	-0.5	-0.4	1.6
B407	0.000	NC_ULS-Set B (auto).25	**1.0**	0.9	-1.2	-0.5	0.1	-0.5	1.8
B407	2.850	NC_ULS-Set B (auto).38	0.0	**-1.7**	**-0.8**	0.7	-0.2	-0.8	1.9
B407	0.000	NC_ULS-Set B (auto).4	-0.1	5.1	**-2.2**	-1.8	-0.2	-1.8	5.6
B407	0.000	NC_ULS-Set B (auto).15	0.0	**5.7**	-1.8	**-1.9**	0.0	-1.3	**6.0**
B407	2.850	NC_ULS-Set B (auto).21	0.1	-1.6	-1.2	**0.7**	-0.3	-1.3	2.0
B407	2.850	NC_ULS-Set B (auto).17	-1.1	0.0	-1.3	0.2	**-0.6**	-0.8	1.7
B407	0.855	NC_ULS-Set B (auto).4	-0.1	3.5	-2.1	-1.2	-0.2	**-1.9**	4.1
B407	2.850	NC_ULS-Set B (auto).26	1.0	0.0	-1.5	0.1	**0.3**	**0.5**	1.8
B408	2.850	NC_ULS-Set B (auto).23	0.0	**-5.9**	-1.9	**1.7**	0.0	-1.3	**6.2**
B408	0.000	NC_ULS-Set B (auto).29	0.0	**1.8**	-0.9	-0.7	0.3	-1.6	2.0
B408	2.850	NC_ULS-Set B (auto).4	0.0	-5.2	**-2.2**	1.7	0.2	-1.9	5.6
B408	0.000	NC_ULS-Set B (auto).26	1.1	0.0	**-0.8**	-0.2	0.4	-0.3	1.3
B408	0.000	NC_ULS-Set B (auto).13	0.0	1.7	-1.3	**-0.7**	0.2	-1.7	2.2
B408	0.000	NC_ULS-Set B (auto).18	**-1.1**	0.0	-2.2	-0.1	**-0.6**	0.6	2.5
B408	0.000	NC_ULS-Set B (auto).25	**1.1**	0.0	-0.8	-0.2	**0.5**	-0.8	1.4
B408	0.000	NC_ULS-Set B (auto).23	0.0	-1.3	-1.8	0.3	0.0	**-2.0**	2.2
B408	0.000	NC_ULS-Set B (auto).34	-1.1	0.0	-1.8	0.0	-0.5	**0.8**	2.1
B409	0.000	NC_ULS-Set B (auto).18	**-1.1**	-1.0	-1.4	0.5	-0.1	-0.8	2.0
B409	0.000	NC_ULS-Set B (auto).25	**1.1**	-1.6	-1.8	0.6	0.1	-0.4	2.6
B409	0.000	NC_ULS-Set B (auto).30	0.0	**0.1**	-1.2	-0.4	0.1	-0.2	1.2
B409	3.000	NC_ULS-Set B (auto).4	0.0	**-9.3**	**-2.6**	**2.7**	0.1	-0.9	**9.7**
B409	3.000	NC_ULS-Set B (auto).38	0.0	-8.0	**-0.8**	2.4	0.0	-0.7	8.1
B409	3.000	NC_ULS-Set B (auto).30	0.0	0.1	-1.3	**-0.5**	0.0	**0.1**	1.3
B409	0.000	NC_ULS-Set B (auto).34	-1.1	-0.5	-1.0	0.4	**-0.1**	-0.6	1.6
B409	1.800	NC_ULS-Set B (auto).17	-1.1	-2.5	-1.8	1.0	**0.2**	-0.6	3.3
B409	0.000	NC_ULS-Set B (auto).4	0.0	-5.2	-2.2	1.7	0.2	**-1.9**	5.6
B410	0.000	NC_ULS-Set B (auto).18	**-1.1**	-2.8	-1.7	0.9	0.1	-0.4	3.4
B410	0.000	NC_ULS-Set B (auto).25	**1.0**	-2.5	-1.8	1.0	0.0	-0.2	3.2
B410	3.000	NC_ULS-Set B (auto).4	0.0	**-10.7**	**-2.7**	**3.1**	0.0	-0.2	**11.1**
B410	3.000	NC_ULS-Set B (auto).38	0.0	-9.6	**-0.7**	2.8	0.0	-0.3	9.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B410	3.000	NC_ULS-Set B (auto).30	0.0	**0.3**	-1.3	**-0.7**	0.0	0.0	1.3
B410	1.500-	NC_ULS-Set B (auto).26	1.0	-2.3	-1.5	0.8	**0.0**	0.0	2.9
B410	0.600	NC_ULS-Set B (auto).17	-1.1	-3.3	-2.0	1.2	**0.1**	-0.3	4.0
B410	0.000	NC_ULS-Set B (auto).7	0.0	-8.6	-2.1	2.5	0.1	**-0.9**	8.9
B410	0.000	NC_ULS-Set B (auto).30	0.0	0.1	-1.3	-0.5	0.0	**0.1**	1.3
B411	0.000	NC_ULS-Set B (auto).18	**-1.1**	-3.2	-1.9	1.1	0.0	0.0	3.9
B411	3.000	NC_ULS-Set B (auto).26	**1.1**	-2.3	-1.4	0.8	0.0	0.0	2.9
B411	1.500-	NC_ULS-Set B (auto).30	0.0	**0.4**	-1.3	**-0.7**	0.0	0.0	1.3
B411	1.500-	NC_ULS-Set B (auto).4	0.0	**-10.9**	**-2.7**	3.1	0.0	0.0	**11.2**
B411	1.200	NC_ULS-Set B (auto).38	0.0	-9.8	**-0.7**	2.8	0.0	-0.1	9.8
B411	0.000	NC_ULS-Set B (auto).4	0.0	-10.7	-2.7	**3.1**	0.0	-0.2	11.1
B411	3.000	NC_ULS-Set B (auto).17	-1.1	-3.6	-2.2	1.3	**0.0**	0.0	4.3
B411	1.200	NC_ULS-Set B (auto).17	-1.1	-3.6	-2.2	1.3	**0.0**	0.0	4.4
B411	0.000	NC_ULS-Set B (auto).21	0.0	-10.1	-1.7	3.0	0.0	**-0.3**	10.2
B411	3.000	NC_ULS-Set B (auto).21	0.0	-10.1	-1.7	3.0	0.0	**0.3**	10.2
B412	3.000	NC_ULS-Set B (auto).17	**-1.1**	-3.2	-2.2	1.3	0.0	0.2	4.1
B412	3.000	NC_ULS-Set B (auto).26	**1.1**	-2.0	-1.3	0.7	-0.1	0.3	2.6
B412	0.000	NC_ULS-Set B (auto).4	0.0	**-10.7**	**-2.7**	**3.1**	0.0	0.2	**11.1**
B412	0.000	NC_ULS-Set B (auto).38	0.0	-9.6	**-0.7**	2.8	0.0	0.3	9.6
B412	0.000	NC_ULS-Set B (auto).30	0.0	**0.3**	-1.3	**-0.7**	0.0	0.0	1.3
B412	2.400	NC_ULS-Set B (auto).9	1.0	-3.3	-2.0	1.2	**-0.1**	0.3	4.0
B412	3.000	NC_ULS-Set B (auto).38	0.0	-8.0	-0.9	2.4	**0.1**	0.7	8.1
B412	3.000	NC_ULS-Set B (auto).30	0.0	0.1	-1.3	-0.5	0.0	**-0.1**	1.3
B412	3.000	NC_ULS-Set B (auto).7	0.0	-8.6	-2.1	2.5	0.0	**0.9**	8.9
B413	3.000	NC_ULS-Set B (auto).17	**-1.1**	-2.0	-2.3	0.8	-0.1	0.6	3.2
B413	3.000	NC_ULS-Set B (auto).30	0.0	**0.1**	-1.2	-0.4	0.0	0.2	1.2
B413	0.000	NC_ULS-Set B (auto).4	0.0	**-9.3**	**-2.6**	**2.7**	-0.1	0.9	**9.7**
B413	0.000	NC_ULS-Set B (auto).38	0.0	-8.0	**-0.9**	2.4	0.1	0.7	8.1
B413	1.200	NC_ULS-Set B (auto).9	1.0	-2.5	-1.8	0.9	**-0.2**	0.6	3.3
B413	3.000	NC_ULS-Set B (auto).26	**1.1**	-0.6	-1.0	0.4	**0.1**	0.6	1.6
B413	0.000	NC_ULS-Set B (auto).30	0.0	0.1	-1.3	**-0.5**	0.0	**-0.1**	1.3
B413	3.000	NC_ULS-Set B (auto).4	0.0	-5.1	-2.3	1.6	-0.1	**1.9**	5.6
B414	0.000	NC_ULS-Set B (auto).23	-0.1	**-5.9**	-2.0	**1.7**	0.0	1.3	**6.2**
B414	2.850	NC_ULS-Set B (auto).29	-0.1	**1.9**	-0.9	-0.7	-0.3	1.6	2.1
B414	0.000	NC_ULS-Set B (auto).4	0.0	-5.1	**-2.3**	1.6	-0.1	1.9	5.6
B414	2.850	NC_ULS-Set B (auto).34	-1.1	0.0	**-0.9**	-0.2	-0.5	0.3	1.4
B414	2.850	NC_ULS-Set B (auto).13	-0.1	1.8	-1.3	**-0.8**	-0.4	1.7	2.2
B414	2.850	NC_ULS-Set B (auto).17	**-1.1**	0.1	-1.3	-0.3	**-0.6**	0.9	1.7

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B414	2.850	NC_ULS-Set B (auto).26	**1.1**	-0.1	-1.6	-0.1	**0.3**	**-0.8**	1.9
B414	2.850	NC_ULS-Set B (auto).23	-0.1	-1.2	-1.7	0.3	-0.2	**2.0**	2.1
B415	2.194	NC_ULS-Set B (auto).17	**-23.0**	-0.7	-11.3	0.0	0.0	0.0	**25.6**
B415	2.194	NC_ULS-Set B (auto).25	**22.5**	-0.4	-7.3	**0.0**	**0.0**	**0.0**	23.7
B415	0.000	NC_ULS-Set B (auto).21	0.2	**-14.6**	-2.4	0.0	0.0	0.0	14.8
B415	2.194	NC_ULS-Set B (auto).30	-0.2	**11.4**	-6.6	0.0	0.0	0.0	13.1
B415	2.194	NC_ULS-Set B (auto).4	-0.3	-1.4	**-15.3**	0.0	0.0	0.0	15.4
B415	0.000	NC_ULS-Set B (auto).38	0.1	-13.6	**-1.2**	0.0	0.0	0.0	13.7
B416	0.000	NC_ULS-Set B (auto).25	**25.1**	0.0	-3.5	**0.0**	**0.0**	**0.0**	25.4
B416	2.128	NC_ULS-Set B (auto).38	-0.3	**-11.9**	-5.6	0.0	0.0	0.0	13.1
B416	2.128	NC_ULS-Set B (auto).29	-0.4	**12.4**	-15.6	0.0	0.0	0.0	19.9
B416	2.128	NC_ULS-Set B (auto).4	-0.7	0.8	**-30.7**	0.0	0.0	0.0	30.7
B416	0.000	NC_ULS-Set B (auto).38	-0.7	-11.3	**-2.6**	0.0	0.0	0.0	11.6
B416	0.000	NC_ULS-Set B (auto).17	**-27.0**	0.1	-4.4	0.0	0.0	**0.0**	27.4
B416	2.128	NC_ULS-Set B (auto).17	-25.7	0.9	-22.0	0.0	0.0	0.0	**33.8**
B417	0.000	NC_ULS-Set B (auto).25	**25.0**	0.3	-3.6	**0.0**	**0.0**	**0.0**	25.3
B417	2.128	NC_ULS-Set B (auto).38	-0.3	**-11.9**	-10.7	0.0	0.0	0.0	16.0
B417	2.128	NC_ULS-Set B (auto).30	-0.4	**12.2**	-5.2	0.0	0.0	0.0	13.2
B417	2.128	NC_ULS-Set B (auto).4	-0.6	0.1	**-29.6**	0.0	0.0	0.0	29.6
B417	0.000	NC_ULS-Set B (auto).30	-0.6	11.6	**-2.6**	0.0	0.0	0.0	11.9
B417	0.000	NC_ULS-Set B (auto).17	**-26.8**	0.2	-4.4	0.0	0.0	**0.0**	27.2
B417	2.128	NC_ULS-Set B (auto).17	-25.7	-0.6	-21.2	0.0	0.0	0.0	**33.3**
B418	0.000	NC_ULS-Set B (auto).25	**23.5**	0.6	-2.4	**0.0**	**0.0**	**0.0**	23.6
B418	0.000	NC_ULS-Set B (auto).38	-0.2	**-11.1**	-2.9	0.0	0.0	0.0	11.5
B418	2.128	NC_ULS-Set B (auto).29	-0.5	**13.2**	-1.0	0.0	0.0	0.0	13.3
B418	2.128	NC_ULS-Set B (auto).4	-0.3	2.7	**-12.0**	0.0	0.0	0.0	12.3
B418	2.128	NC_ULS-Set B (auto).30	-0.3	12.8	**-0.9**	0.0	0.0	0.0	12.8
B418	0.000	NC_ULS-Set B (auto).17	**-24.3**	0.5	-3.2	0.0	0.0	**0.0**	24.5
B418	2.128	NC_ULS-Set B (auto).17	-23.1	1.3	-8.9	0.0	0.0	0.0	**24.8**
B419	0.000	NC_ULS-Set B (auto).9	**26.3**	0.0	-34.2	**0.0**	**0.0**	**0.0**	43.1
B419	0.000	NC_ULS-Set B (auto).38	0.2	**-12.0**	-16.3	0.0	0.0	0.0	20.2
B419	0.000	NC_ULS-Set B (auto).30	0.3	**12.1**	-11.3	0.0	0.0	0.0	16.5
B419	0.000	NC_ULS-Set B (auto).4	0.9	0.1	**-51.1**	0.0	0.0	0.0	**51.1**
B419	2.161	NC_ULS-Set B (auto).30	0.1	12.1	**-5.3**	0.0	0.0	0.0	13.2
B419	0.000	NC_ULS-Set B (auto).33	**-25.5**	0.0	-19.8	0.0	0.0	**0.0**	32.2
B420	0.152-	NC_ULS-Set B (auto).17	**-27.7**	0.1	-4.7	0.1	7.6	-0.9	**28.2**
B420	2.000+	NC_ULS-Set B (auto).9	**26.4**	0.1	-4.4	0.2	13.5	-1.9	26.8
B420	0.000	NC_ULS-Set B (auto).38	-0.4	**-11.2**	-3.0	-0.1	1.1	-0.5	11.6

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B420	7.031-	NC_ULS-Set B (auto).29	0.0	**11.8**	-1.0	0.0	-0.9	0.5	11.9
B420	0.000	NC_ULS-Set B (auto).4	-2.0	0.2	**-5.8**	0.1	8.9	-0.5	6.2
B420	8.631	NC_ULS-Set B (auto).26	19.6	0.4	**-0.8**	0.1	-0.5	0.6	19.6
B420	8.631	NC_ULS-Set B (auto).29	-0.3	11.7	-1.5	**-0.8**	-0.5	0.0	11.8
B420	8.631	NC_ULS-Set B (auto).22	0.0	-10.1	-1.3	**1.1**	-0.5	-0.2	10.2
B420	0.508-	NC_ULS-Set B (auto).29	0.0	11.4	-3.2	0.2	**-9.2**	0.4	11.8
B420	1.600-	NC_ULS-Set B (auto).4	0.4	0.4	-5.6	0.2	**20.0**	-4.3	5.6
B420	1.400-	NC_ULS-Set B (auto).4	0.2	0.3	-5.6	0.2	18.2	**-4.5**	5.6
B420	3.554-	NC_ULS-Set B (auto).15	0.4	8.4	-3.5	0.6	-7.6	**1.2**	9.1
B421	4.960	NC_ULS-Set B (auto).25	**21.0**	0.4	-0.9	-0.2	-0.2	1.0	21.1
B421	6.200	NC_ULS-Set B (auto).38	0.0	**-10.7**	-0.8	1.0	-0.5	-0.1	10.7
B421	6.200	NC_ULS-Set B (auto).29	-0.4	**11.8**	-1.5	-0.8	-0.5	0.0	11.9
B421	0.000	NC_ULS-Set B (auto).26	1.0	0.0	**-0.8**	0.2	0.4	0.2	1.2
B421	3.100-	NC_ULS-Set B (auto).13	1.5	6.6	-1.9	**-2.0**	0.0	1.5	7.0
B421	3.410	NC_ULS-Set B (auto).38	2.3	-6.5	-0.8	**1.7**	-0.2	0.6	6.9
B421	4.650-	NC_ULS-Set B (auto).17	-12.6	0.6	-2.3	-0.2	**-6.7**	-1.6	12.9
B421	1.860	NC_ULS-Set B (auto).25	9.9	-0.2	-0.8	0.0	**6.9**	1.3	10.0
B421	6.200	NC_ULS-Set B (auto).17	**-20.9**	0.8	**-2.3**	0.0	-3.0	**-2.0**	**21.1**
B421	3.100-	NC_ULS-Set B (auto).4	0.2	0.7	-1.8	-0.3	-0.2	**2.3**	2.0
B422	8.479+	NC_ULS-Set B (auto).17	**-27.7**	0.1	-4.8	0.0	7.6	1.2	**28.1**
B422	6.631-	NC_ULS-Set B (auto).9	**26.6**	0.0	-4.3	-0.3	10.6	1.8	26.9
B422	8.479+	NC_ULS-Set B (auto).30	-0.5	**11.4**	-3.0	0.2	4.2	0.0	11.8
B422	8.479-	NC_ULS-Set B (auto).4	-2.0	0.2	**-5.8**	0.0	17.6	1.6	6.2
B422	1.638	NC_ULS-Set B (auto).38	-0.2	**-11.6**	**-0.8**	0.1	0.4	-0.3	11.6
B422	0.000	NC_ULS-Set B (auto).14	0.0	10.3	-1.4	**-1.1**	-0.9	0.5	10.4
B422	0.000	NC_ULS-Set B (auto).37	-0.2	-11.3	-1.5	**0.8**	-0.8	0.4	11.4
B422	6.093-	NC_ULS-Set B (auto).29	1.1	11.2	-3.3	-0.1	**-8.4**	-1.7	11.8
B422	6.093-	NC_ULS-Set B (auto).23	1.4	-7.8	-4.0	-0.5	-8.4	**-2.1**	8.9
B422	7.431-	NC_ULS-Set B (auto).4	0.3	0.0	-5.7	-0.2	**27.3**	**5.5**	5.7
B423	6.200	NC_ULS-Set B (auto).38	-0.3	**-11.5**	-1.5	0.8	-0.3	0.1	11.6
B423	6.200	NC_ULS-Set B (auto).30	0.0	**10.9**	-0.9	-1.1	-0.9	0.4	10.9
B423	6.200	NC_ULS-Set B (auto).17	**-21.0**	-0.6	**-2.4**	0.0	-2.9	**2.0**	21.1
B423	0.000	NC_ULS-Set B (auto).26	1.1	0.0	**-0.8**	-0.2	0.4	-0.3	1.3
B423	3.410	NC_ULS-Set B (auto).30	3.5	6.5	-0.9	**-1.7**	-0.2	-1.1	7.5
B423	3.100-	NC_ULS-Set B (auto).21	2.5	-6.4	-1.9	**1.9**	0.1	-2.0	7.1
B423	4.340	NC_ULS-Set B (auto).17	-10.8	-0.4	-2.4	0.2	**-6.6**	-0.6	11.1
B423	1.860	NC_ULS-Set B (auto).25	10.1	0.3	-0.9	0.0	**6.9**	-1.0	10.1
B423	3.100-	NC_ULS-Set B (auto).4	0.2	-0.5	-1.9	0.3	-0.2	**-2.8**	2.0

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B423	4.650-	NC_ULS-Set B (auto).25	**21.2**	-0.2	-0.9	0.2	0.2	-0.7	**21.2**
B424	2.000+	NC_ULS-Set B (auto).17	**-26.7**	0.2	-4.4	0.2	-13.6	2.0	27.1
B424	0.000	NC_ULS-Set B (auto).38	0.2	**-11.3**	-3.0	-0.1	-1.1	0.4	11.6
B424	6.879	NC_ULS-Set B (auto).29	-0.6	**12.1**	-0.8	0.0	2.2	-0.6	12.2
B424	0.000	NC_ULS-Set B (auto).4	1.7	0.4	**-5.9**	0.1	-9.0	0.5	6.1
B424	7.031+	NC_ULS-Set B (auto).29	-0.6	12.1	**-0.8**	-0.1	1.0	-0.6	12.2
B424	8.631	NC_ULS-Set B (auto).29	0.0	11.9	-1.4	**-0.8**	0.4	-0.1	12.0
B424	8.631	NC_ULS-Set B (auto).22	0.0	-10.1	-1.2	**1.1**	0.5	0.1	10.2
B424	1.777-	NC_ULS-Set B (auto).4	-1.3	0.6	-5.5	0.3	**-19.9**	4.0	5.7
B424	0.508-	NC_ULS-Set B (auto).29	-0.2	11.6	-3.2	0.2	**9.2**	-0.4	12.1
B424	3.554-	NC_ULS-Set B (auto).15	-0.8	8.6	-3.5	0.6	7.5	**-1.2**	9.3
B424	1.440	NC_ULS-Set B (auto).4	-0.5	0.6	-5.6	0.2	-18.5	**4.6**	5.7
B424	0.152-	NC_ULS-Set B (auto).9	**27.5**	0.2	-4.8	0.0	-7.6	0.9	**27.9**
B425	4.650-	NC_ULS-Set B (auto).33	**-21.2**	0.4	-0.9	-0.2	-0.3	-1.6	**21.2**
B425	6.200	NC_ULS-Set B (auto).38	0.0	**-10.8**	**-0.8**	1.1	0.5	0.0	10.8
B425	6.200	NC_ULS-Set B (auto).29	0.1	**12.1**	-1.4	-0.8	0.4	-0.1	12.1
B425	6.200	NC_ULS-Set B (auto).9	**20.7**	0.9	**-2.1**	0.0	2.9	**1.9**	20.8
B425	3.100-	NC_ULS-Set B (auto).13	-1.7	6.7	-1.8	**-2.0**	-0.1	-1.8	7.2
B425	3.410	NC_ULS-Set B (auto).38	-2.3	-6.5	-0.8	**1.7**	0.2	-0.9	6.9
B425	1.860	NC_ULS-Set B (auto).33	-10.1	-0.2	-0.9	0.0	**-7.0**	-1.7	10.1
B425	4.340	NC_ULS-Set B (auto).9	10.3	0.5	-2.1	-0.3	**6.7**	0.8	10.6
B425	3.100-	NC_ULS-Set B (auto).4	-0.4	0.8	-1.7	-0.4	0.2	**-2.6**	2.0
B426	6.524	NC_ULS-Set B (auto).17	**-27.0**	0.1	-4.2	-0.3	-8.3	-1.4	27.3
B426	1.714	NC_ULS-Set B (auto).38	-0.2	**-11.7**	-0.7	0.0	-0.7	0.2	11.7
B426	8.631	NC_ULS-Set B (auto).29	0.3	**11.6**	-3.4	0.2	-1.6	1.1	12.1
B426	8.479-	NC_ULS-Set B (auto).4	1.7	0.4	**-5.9**	0.0	-17.6	-1.6	6.1
B426	1.600-	NC_ULS-Set B (auto).38	-0.1	-11.7	**-0.7**	0.1	-0.6	0.2	11.7
B426	0.000	NC_ULS-Set B (auto).14	-0.1	10.5	-1.3	**-1.1**	0.9	-0.5	10.6
B426	0.000	NC_ULS-Set B (auto).37	0.1	-11.4	-1.4	**0.8**	0.7	-0.3	11.5
B426	6.093-	NC_ULS-Set B (auto).29	-1.3	11.5	-3.3	-0.1	**8.4**	1.6	12.0
B426	7.431-	NC_ULS-Set B (auto).4	-0.6	0.2	-5.7	-0.3	**-27.2**	**-5.6**	5.7
B426	6.093-	NC_ULS-Set B (auto).23	-1.7	-7.8	-4.0	-0.5	8.3	**1.8**	8.9
B426	8.479+	NC_ULS-Set B (auto).9	**27.5**	0.2	-4.8	0.0	-7.6	-1.2	**27.9**
B427	4.650-	NC_ULS-Set B (auto).33	**-21.4**	-0.1	-1.0	0.2	-0.2	0.4	**21.4**
B427	6.200	NC_ULS-Set B (auto).38	0.0	**-11.6**	-1.4	0.8	0.2	-0.1	11.7
B427	6.200	NC_ULS-Set B (auto).30	-0.1	**11.0**	-0.9	-1.1	0.9	-0.4	11.1
B427	0.000	NC_ULS-Set B (auto).34	-1.1	0.0	**-0.9**	-0.2	-0.5	0.3	1.4
B427	3.410	NC_ULS-Set B (auto).30	-3.6	6.7	-0.9	**-1.7**	0.2	0.5	7.6

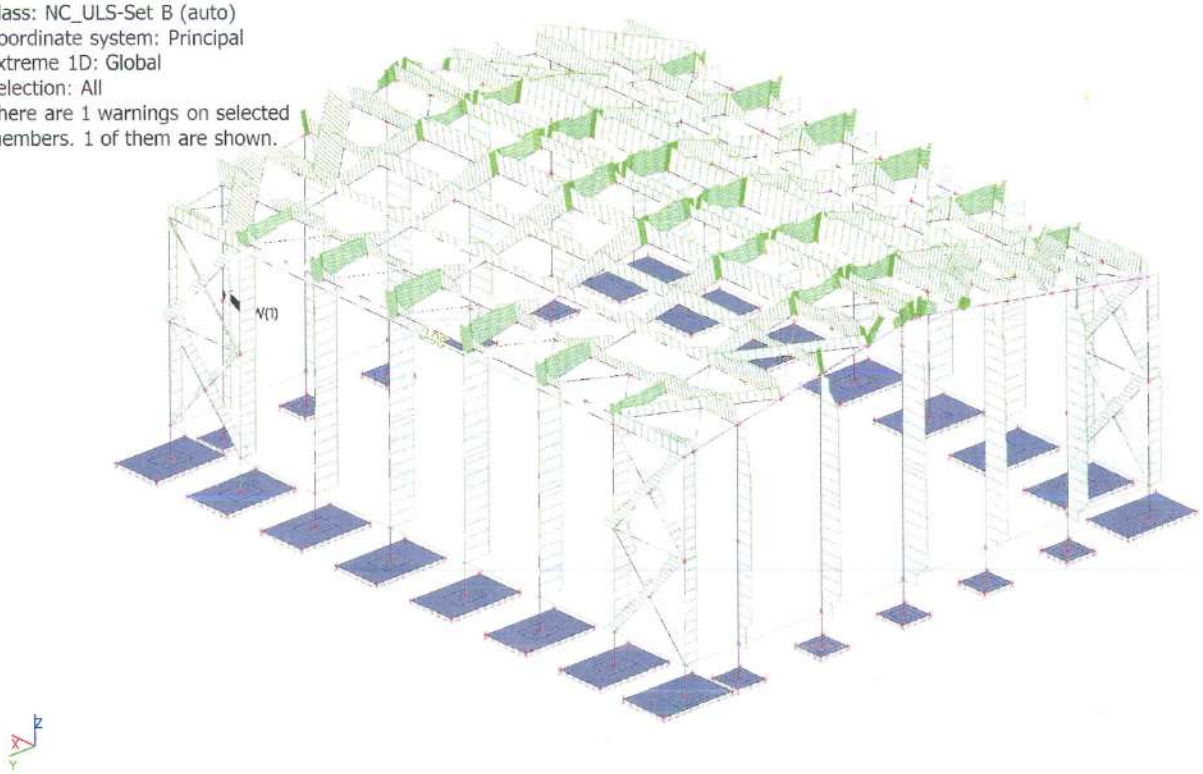
Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B427	3.100-	NC_ULS-Set B (auto).38	-0.8	-6.7	-1.3	**2.0**	0.0	1.1	6.8
B427	1.860	NC_ULS-Set B (auto).33	-10.2	0.3	-0.9	0.0	**-7.0**	0.5	10.3
B427	4.340	NC_ULS-Set B (auto).9	10.5	-0.3	-2.1	0.2	**6.7**	0.1	10.7
B427	6.200	NC_ULS-Set B (auto).9	**20.7**	-0.5	**-2.2**	-0.1	2.8	**-1.9**	20.8
B427	3.100-	NC_ULS-Set B (auto).4	-0.4	-0.4	-1.8	0.2	0.2	**2.6**	1.9
B428	1.000	NC_ULS-Set B (auto).18	**-1.1**	0.0	-2.1	0.1	-0.5	-0.7	2.4
B428	1.000	NC_ULS-Set B (auto).38	0.1	**-1.8**	-0.8	0.7	0.1	1.0	1.9
B428	1.000	NC_ULS-Set B (auto).17	-1.1	0.0	**-2.1**	0.1	-0.4	-0.2	2.4
B428	0.000	NC_ULS-Set B (auto).26	0.6	0.2	**-0.8**	0.2	0.4	0.2	1.0
B428	1.000	NC_ULS-Set B (auto).30	0.0	**1.8**	-1.4	**-0.6**	-0.2	1.2	2.3
B428	1.000	NC_ULS-Set B (auto).21	0.1	-1.7	-1.3	**0.8**	0.2	1.6	2.1
B428	0.000	NC_ULS-Set B (auto).18	-0.6	0.1	-2.1	0.1	**-0.6**	-0.7	2.2
B428	1.000	NC_ULS-Set B (auto).25	**1.0**	0.0	-0.8	0.2	**0.5**	0.8	1.3
B428	1.000	NC_ULS-Set B (auto).34	-1.1	0.0	-1.7	0.0	-0.5	**-0.8**	2.0
B428	1.000	NC_ULS-Set B (auto).15	0.0	1.4	-1.8	-0.3	0.0	**1.9**	2.2
B428	1.000	NC_ULS-Set B (auto).13	0.0	1.7	-1.8	-0.5	-0.1	1.8	**2.5**
B429	1.000	NC_ULS-Set B (auto).18	**-1.1**	0.0	-2.2	-0.1	-0.6	0.6	**2.5**
B429	1.000	NC_ULS-Set B (auto).38	0.0	**-1.8**	-1.4	**0.5**	-0.1	-1.3	2.2
B429	1.000	NC_ULS-Set B (auto).29	0.0	**1.8**	-0.9	-0.7	0.3	-1.6	2.0
B429	1.000	NC_ULS-Set B (auto).17	-1.1	0.0	**-2.2**	-0.1	-0.5	0.1	2.5
B429	0.000	NC_ULS-Set B (auto).26	0.7	-0.2	**-0.8**	-0.2	0.4	-0.3	1.1
B429	1.000	NC_ULS-Set B (auto).13	0.0	1.7	-1.3	**-0.7**	0.2	-1.7	2.2
B429	0.000	NC_ULS-Set B (auto).18	-0.5	-0.1	-2.2	-0.1	**-0.6**	0.6	2.3
B429	1.000	NC_ULS-Set B (auto).25	**1.1**	0.0	-0.8	-0.2	**0.5**	-0.8	1.4
B429	1.000	NC_ULS-Set B (auto).23	0.0	-1.3	-1.8	0.3	0.0	**-2.0**	2.2
B429	1.000	NC_ULS-Set B (auto).34	-1.1	0.0	-1.8	0.0	-0.5	**0.8**	2.1
B430	1.000	NC_ULS-Set B (auto).18	**-1.1**	0.0	-1.2	0.2	-0.5	-0.4	1.6
B430	1.000	NC_ULS-Set B (auto).25	**1.0**	0.0	-1.6	0.1	0.2	0.1	1.8
B430	1.000	NC_ULS-Set B (auto).38	0.0	**-1.7**	-0.8	0.7	-0.2	-0.8	1.9
B430	1.000	NC_ULS-Set B (auto).9	1.0	0.0	**-1.9**	0.2	0.2	0.0	2.2
B430	0.000	NC_ULS-Set B (auto).38	0.2	-1.0	**-0.8**	0.7	-0.2	-0.8	1.3
B430	1.000	NC_ULS-Set B (auto).30	0.0	**1.9**	-1.3	**-0.5**	0.0	-1.2	2.3
B430	1.000	NC_ULS-Set B (auto).21	0.1	-1.6	-1.2	**0.7**	-0.3	-1.3	2.0
B430	1.000	NC_ULS-Set B (auto).17	-1.1	0.0	-1.3	0.2	**-0.6**	-0.8	1.7
B430	1.000	NC_ULS-Set B (auto).15	0.0	1.5	-1.7	-0.3	-0.2	**-1.7**	2.2
B430	1.000	NC_ULS-Set B (auto).26	1.0	0.0	-1.5	0.1	**0.3**	**0.5**	1.8
B430	1.000	NC_ULS-Set B (auto).13	0.0	1.8	-1.7	-0.5	-0.1	-1.5	**2.5**
B431	1.000	NC_ULS-Set B (auto).38	0.0	**-1.7**	-1.3	**0.5**	0.0	1.3	2.2

Name	dx [m]	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
B431	1.000	NC_ULS-Set B (auto).29	-0.1	**1.9**	-0.9	-0.7	-0.3	1.6	2.1
B431	1.000	NC_ULS-Set B (auto).9	1.1	0.0	**-2.0**	-0.1	0.2	-0.1	2.3
B431	0.000	NC_ULS-Set B (auto).34	-0.6	-0.2	**-0.9**	-0.2	-0.4	0.3	1.1
B431	1.000	NC_ULS-Set B (auto).13	-0.1	1.8	-1.3	**-0.8**	-0.4	1.7	2.2
B431	1.000	NC_ULS-Set B (auto).17	**-1.1**	0.1	-1.3	-0.3	**-0.6**	0.9	1.7
B431	1.000	NC_ULS-Set B (auto).26	**1.1**	-0.1	-1.6	-0.1	**0.3**	**-0.8**	1.9
B431	1.000	NC_ULS-Set B (auto).23	-0.1	-1.2	-1.7	0.3	-0.2	**2.0**	2.1
B431	1.000	NC_ULS-Set B (auto).22	0.0	-1.7	-1.7	0.5	0.0	1.3	**2.4**
B432	4.421	NC_ULS-Set B (auto).18	**-39.2**	0.1	-4.2	0.0	0.2	-0.7	**39.4**
B432	5.526	NC_ULS-Set B (auto).25	**27.6**	0.1	-3.4	0.0	-0.2	0.1	27.8
B432	7.367	NC_ULS-Set B (auto).38	0.5	**-11.2**	-3.0	0.0	-4.6	0.3	11.6
B432	7.306-	NC_ULS-Set B (auto).30	0.8	**11.4**	-2.9	0.0	-4.6	0.1	11.8
B432	7.612	NC_ULS-Set B (auto).4	-1.8	0.2	**-5.7**	0.1	0.2	-0.7	6.0
B432	0.000	NC_ULS-Set B (auto).30	6.1	1.8	**-2.6**	-2.0	3.1	0.1	6.9
B432	0.000	NC_ULS-Set B (auto).29	11.9	1.8	-2.9	**-2.0**	6.2	0.3	12.4
B432	0.000	NC_ULS-Set B (auto).38	6.1	-1.7	-2.8	**1.9**	3.1	0.1	6.9
B432	0.000	NC_ULS-Set B (auto).18	-11.8	0.0	-3.9	0.0	**-10.1**	-0.2	12.4
B432	0.000	NC_ULS-Set B (auto).25	6.4	0.0	-3.2	0.0	**6.7**	0.1	7.1
B432	7.612	NC_ULS-Set B (auto).18	-26.0	0.0	-4.3	0.1	6.2	**-1.0**	26.4
B432	7.612	NC_ULS-Set B (auto).37	-1.0	-11.0	-3.4	-0.1	-9.2	**0.6**	11.5
B433	0.200	NC_ULS-Set B (auto).33	**-25.2**	-0.1	-5.2	-5.2	7.4	-1.2	25.7
B433	0.000	NC_ULS-Set B (auto).9	**26.5**	0.1	-4.4	0.1	14.1	-2.1	26.9
B433	0.200	NC_ULS-Set B (auto).38	0.3	**-11.3**	-4.4	-3.2	5.6	-0.5	12.1
B433	0.000	NC_ULS-Set B (auto).29	0.7	**11.4**	-2.9	0.3	5.8	-0.9	11.8
B433	0.200	NC_ULS-Set B (auto).4	1.4	-0.2	**-9.9**	**-10.4**	20.1	-1.8	10.0
B433	0.000	NC_ULS-Set B (auto).13	0.8	11.2	-3.9	**0.3**	7.5	-1.3	11.9
B433	0.000	NC_ULS-Set B (auto).30	0.4	11.4	**-2.6**	0.3	**3.1**	-0.5	11.7
B433	0.100-	NC_ULS-Set B (auto).4	1.4	0.0	-7.7	-5.1	**22.6**	-3.4	7.9
B433	0.020	NC_ULS-Set B (auto).4	1.4	0.3	-5.9	-0.8	20.9	**-3.8**	6.1
B433	0.200	NC_ULS-Set B (auto).30	0.4	11.4	-3.3	-0.4	3.2	**-0.1**	11.8
B433	0.200	NC_ULS-Set B (auto).9	26.5	-0.3	-7.6	-8.4	14.2	-1.3	**27.6**

7.3. Verificare otel

7.3.1. EC-EN 1993 Steel check ULS; Overall check

Values: $UC_{Overall}$
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Global
Selection: All
There are 1 warnings on selected members. 1 of them are shown.



7.3.2. EC-EN 1993 Steel check ULS

Values: $UC_{Overall}$
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Overall Unity Check

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
B5	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.57**	0.14	0.57
B6	3.100+	NC_ULS-Set B (auto).17	CS2 - IPE450	S 235	**0.56**	0.21	0.56
B7	6.854+	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.67**	0.62	0.67
B8	1.777-	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.66**	0.61	0.66
B9	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.80**	0.21	0.80
B10	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.80**	0.21	0.80
B11	0.000	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.84**	0.84	0.84
B12	8.631	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.84**	0.84	0.84
B13	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.87**	0.21	0.87
B14	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.87**	0.21	0.87
B15	0.000	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.90**	0.87	0.90
B16	8.631	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330;	S 235	**0.90**	0.87	0.90

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
			300.00)				
B17	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.87**	0.21	0.87
B18	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.87**	0.21	0.87
B19	0.000	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.90**	0.88	0.90
B20	8.631	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.90**	0.88	0.90
B21	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.80**	0.21	0.80
B22	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.81**	0.21	0.81
B23	0.000	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.84**	0.84	0.84
B24	8.631	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.84**	0.84	0.84
B25	0.000	NC_ULS-Set B (auto).4	CS2 - IPE450	S 235	**0.58**	0.15	0.58
B26	3.100+	NC_ULS-Set B (auto).9	CS2 - IPE450	S 235	**0.56**	0.21	0.56
B27	6.854+	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.68**	0.63	0.68
B28	1.777-	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.67**	0.62	0.67
B33	0.000	NC_ULS-Set B (auto).17	CS3 - IPE200	S 235	**0.37**	0.23	0.37
B34	0.000	NC_ULS-Set B (auto).25	CS3 - IPE200	S 235	**0.21**	0.21	0.00
B35	0.000	NC_ULS-Set B (auto).17	CS3 - IPE200	S 235	**0.12**	0.12	0.00
B36	0.000	NC_ULS-Set B (auto).17	CS3 - IPE200	S 235	**0.09**	0.09	0.00
B37	3.000	NC_ULS-Set B (auto).9	CS3 - IPE200	S 235	**0.12**	0.12	0.00
B38	3.000	NC_ULS-Set B (auto).33	CS3 - IPE200	S 235	**0.21**	0.21	0.00
B39	2.850	NC_ULS-Set B (auto).9	CS3 - IPE200	S 235	**0.38**	0.24	0.38
B40	0.000	NC_ULS-Set B (auto).17	CS3 - IPE200	S 235	**0.39**	0.24	0.39
B41	0.000	NC_ULS-Set B (auto).25	CS3 - IPE200	S 235	**0.20**	0.20	0.00
B42	0.000	NC_ULS-Set B (auto).17	CS3 - IPE200	S 235	**0.12**	0.12	0.00
B43	0.000	NC_ULS-Set B (auto).17	CS3 - IPE200	S 235	**0.09**	0.09	0.00
B44	3.000	NC_ULS-Set B (auto).9	CS3 - IPE200	S 235	**0.12**	0.12	0.00
B45	3.000	NC_ULS-Set B (auto).33	CS3 - IPE200	S 235	**0.20**	0.20	0.00
B46	2.850	NC_ULS-Set B (auto).9	CS3 - IPE200	S 235	**0.39**	0.24	0.39
B47	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.34	0.61
B55	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.60**	0.60	0.33
B56	1.305	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.70**	0.44	0.70
B57	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.59**	0.59	0.39
B58	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.83**	0.61	0.83
B59	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.36**	0.36	0.33
B68	2.850	NC_ULS-Set B (auto).23	CS5 - UPN140	S 235	**0.85**	0.71	0.85
B69	1.450-	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.71**	0.43	0.71
B70	0.000	NC_ULS-Set B	CS5 - UPN140	S 235	**0.57**	0.57	0.34

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
		(auto).4					
B71	1.450-	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.70**	0.47	0.70
B72	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.53**	0.53	0.46
B74	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B75	2.128	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B77	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B78	2.128	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.84**	0.84	0.00
B79	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B80	0.000	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.86**	0.86	0.00
B81	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B83	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B84	2.194	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.04**	0.04	0.00
B86	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B88	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B89	2.211	NC_ULS-Set B (auto).30	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B90	0.000	NC_ULS-Set B (auto).37	CS6 - L50X5	S 235	**0.04**	0.04	0.00
B91	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B92	2.211	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B93	0.000	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B94	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B95	2.211	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B96	0.000	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B97	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B98	2.211	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B99	0.000	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B100	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B101	2.211	NC_ULS-Set B (auto).37	CS6 - L50X5	S 235	**0.04**	0.04	0.00
B102	0.000	NC_ULS-Set B (auto).30	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B103	2.145	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.83**	0.83	0.00
B104	2.178	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B105	2.178	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.87**	0.87	0.00
B106	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B107	2.145	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.83**	0.83	0.00
B108	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B109	2.178	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.87**	0.87	0.00
B110	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B111	0.000	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.03**	0.03	0.00
B112	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B114	1.625	NC_ULS-Set B	CS6 - L50X5	S 235	**0.01**	0.01	0.00

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
		(auto).4					
B115	2.128	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.03**	0.03	0.00
B116	0.000	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.85**	0.85	0.00
B117	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B119	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B120	0.000	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.86**	0.86	0.00
B121	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B123	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B124	2.194	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.04**	0.04	0.00
B125	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B126	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B127	2.211	NC_ULS-Set B (auto).38	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B128	0.000	NC_ULS-Set B (auto).29	CS6 - L50X5	S 235	**0.03**	0.03	0.00
B129	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B130	2.211	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B131	0.000	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B132	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B133	2.211	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B134	0.000	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B135	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B136	2.211	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B137	0.000	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B138	1.625	NC_ULS-Set B (auto).9	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B139	2.211	NC_ULS-Set B (auto).29	CS6 - L50X5	S 235	**0.04**	0.04	0.00
B140	0.000	NC_ULS-Set B (auto).38	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B141	2.145	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.84**	0.84	0.00
B142	2.178	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B143	2.178	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.87**	0.87	0.00
B144	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B145	2.161	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.84**	0.84	0.00
B146	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B147	2.161	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.87**	0.87	0.00
B148	0.000	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.04**	0.04	0.00
B149	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B150	0.930	NC_ULS-Set B (auto).21	CS7 - IPE270	S 235	**0.55**	0.12	0.55
B151	0.746	NC_ULS-Set B (auto).18	CS7 - IPE270	S 235	**0.80**	0.12	0.80
B153	0.726	NC_ULS-Set B (auto).23	CS7 - IPE270	S 235	**0.89**	0.11	0.89
B154	0.620	NC_ULS-Set B (auto).13	CS7 - IPE270	S 235	**0.81**	0.11	0.81
B155	0.000	NC_ULS-Set B	CS7 - IPE270	S 235	**0.32**	0.06	0.32

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
		(auto).21					
B156	0.746	NC_ULS-Set B (auto).21	CS7 - IPE270	S 235	**0.79**	0.11	0.79
B157	0.737	NC_ULS-Set B (auto).15	CS7 - IPE270	S 235	**0.98**	0.12	0.98
B158	0.726	NC_ULS-Set B (auto).23	CS7 - IPE270	S 235	**0.90**	0.11	0.90
B159	0.620	NC_ULS-Set B (auto).13	CS7 - IPE270	S 235	**0.82**	0.11	0.82
B160	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.47
B161	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.60**	0.60	0.50
B162	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.47
B163	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.50
B164	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.58
B165	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.52
B166	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.60**	0.60	0.51
B167	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.53
B168	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.60
B169	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.74**	0.60	0.74
B170	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.68**	0.60	0.68
B171	1.450-	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.74**	0.49	0.74
B172	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.91**	0.60	0.91
B173	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.46**	0.36	0.46
B174	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.52**	0.37	0.52
B175	2.850	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.47**	0.47	0.44
B176	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.43**	0.43	0.40
B177	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.46**	0.36	0.46
B178	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.74**	0.60	0.74
B179	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.67**	0.60	0.67
B180	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.78**	0.60	0.78
B181	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.82**	0.61	0.82
B182	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.53
B183	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.60**	0.60	0.52
B184	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.54
B185	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.61
B186	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.48
B187	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.60**	0.60	0.50
B188	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.48
B189	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.35
B190	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.52**	0.36	0.52
B191	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.46**	0.36	0.46
B192	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.36**	0.36	0.33
B193	0.000	NC_ULS-Set B	CS5 - UPN140	S 235	**0.46**	0.36	0.46

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
		(auto).4					
B194	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.52**	0.36	0.52
B195	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.00
B196	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.00
B197	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.00
B198	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.00
B199	2.850	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.60**	0.60	0.00
B200	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.41
B201	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.00
B202	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.00
B203	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.00
B204	0.000	NC_ULS-Set B (auto).23	CS5 - UPN140	S 235	**0.80**	0.67	0.80
B205	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.42
B206	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.61**	0.61	0.60
B207	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.59**	0.59	0.29
B208	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.52**	0.37	0.52
B209	2.850	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.56**	0.56	0.49
B210	2.850	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.59**	0.59	0.36
B221	2.105	NC_ULS-Set B (auto).9	CS6 - L50X5	S 235	**0.26**	0.26	0.00
B222	0.000	NC_ULS-Set B (auto).18	CS6 - L50X5	S 235	**0.34**	0.34	0.00
B223	0.000	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.35**	0.35	0.00
B224	0.000	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.39**	0.39	0.00
B225	2.850	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.20**	0.20	0.16
B226	2.122	NC_ULS-Set B (auto).10	CS6 - L50X5	S 235	**0.35**	0.35	0.00
B227	0.000	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.33**	0.33	0.00
B228	2.089	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.38**	0.38	0.00
B229	0.000	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.59**	0.59	0.26
B230	0.000	NC_ULS-Set B (auto).9	CS6 - L50X5	S 235	**0.22**	0.22	0.18
B231	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.37**	0.37	0.24
B232	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.39**	0.39	0.00
B233	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.37**	0.37	0.00
B234	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.39**	0.39	0.00
B235	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.51**	0.51	0.00
B236	2.850	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.37**	0.37	0.26
B238	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.51**	0.51	0.00
B239	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.52**	0.52	0.00
B240	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.39**	0.39	0.00
B241	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.37**	0.37	0.00
B242	3.000	NC_ULS-Set B	CS5 - UPN140	S 235	**0.40**	0.40	0.00

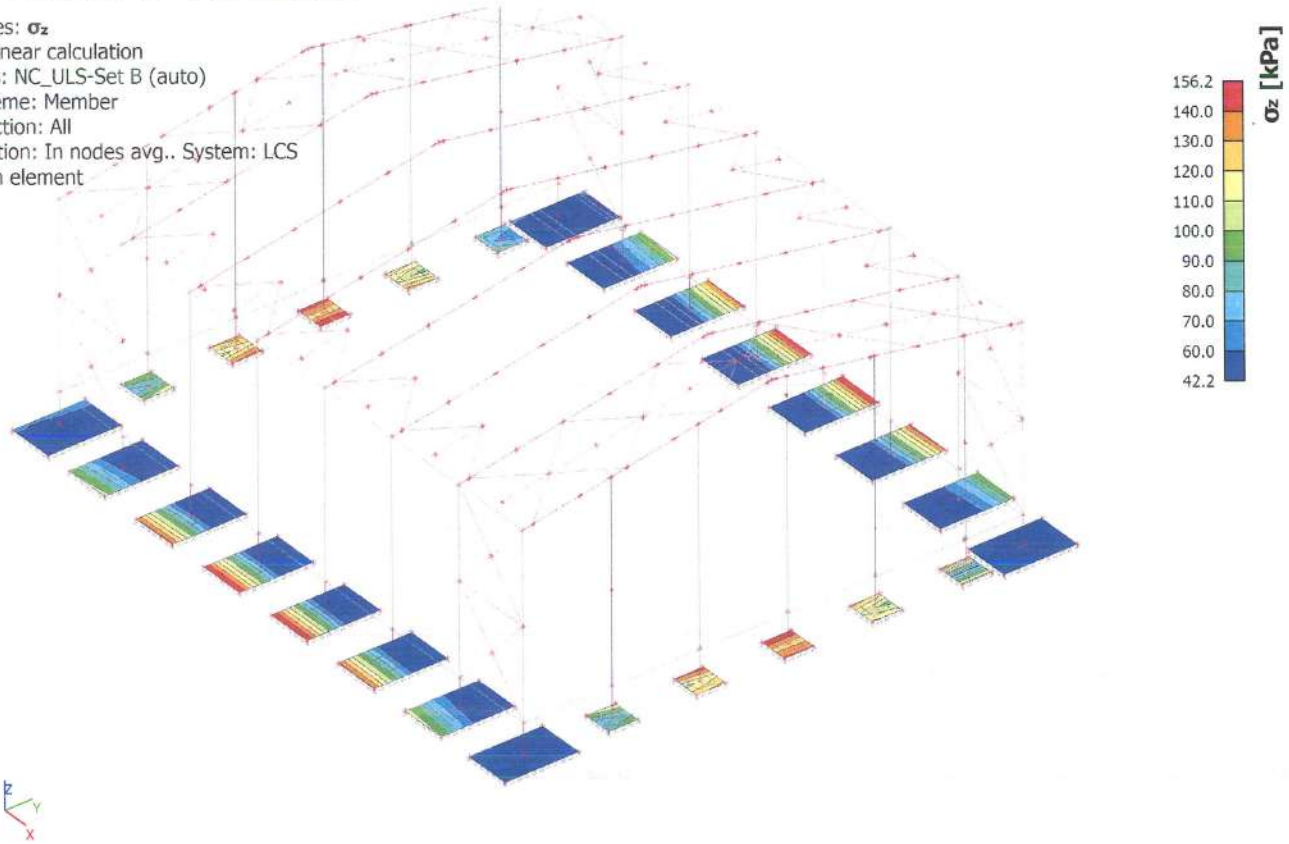
Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
		(auto).4					
B243	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.52**	0.52	0.00
B244	2.850	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.34	0.62
B245	1.475+	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.68**	0.44	0.68
B246	1.475+	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.74**	0.47	0.74
B247	1.475+	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.71**	0.48	0.71
B248	1.475+	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.67**	0.45	0.67
B249	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.51
B250	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.84**	0.61	0.84
B251	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.81**	0.61	0.81
B252	3.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.36
B253	0.000	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.62**	0.62	0.00
B254	2.122	NC_ULS-Set B (auto).10	CS6 - L50X5	S 235	**0.32**	0.32	0.00
B255	0.000	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.34**	0.34	0.00
B256	0.000	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.60**	0.60	0.26
B257	2.850	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.23**	0.21	0.23
B258	2.089	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.36**	0.36	0.00
B259	2.105	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.24**	0.24	0.00
B260	0.000	NC_ULS-Set B (auto).18	CS6 - L50X5	S 235	**0.31**	0.31	0.00
B261	0.000	NC_ULS-Set B (auto).9	CS6 - L50X5	S 235	**0.23**	0.21	0.23
B262	0.000	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.36**	0.36	0.00
B263	0.000	NC_ULS-Set B (auto).33	CS6 - L50X5	S 235	**0.39**	0.39	0.00
B264	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B265	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B266	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B267	1.625	NC_ULS-Set B (auto).39	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B268	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B269	1.625	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B270	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B271	1.625	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B272	2.105	NC_ULS-Set B (auto).9	CS6 - L50X5	S 235	**0.39**	0.39	0.00
B273	2.105	NC_ULS-Set B (auto).18	CS6 - L50X5	S 235	**0.46**	0.46	0.00
B274	2.105	NC_ULS-Set B (auto).10	CS6 - L50X5	S 235	**0.31**	0.31	0.00
B275	2.105	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.40**	0.40	0.00
B276	2.089	NC_ULS-Set B (auto).10	CS6 - L50X5	S 235	**0.42**	0.42	0.00
B277	2.122	NC_ULS-Set B (auto).34	CS6 - L50X5	S 235	**0.30**	0.30	0.00
B278	2.122	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.60**	0.60	0.22
B279	2.089	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.43**	0.43	0.00
B280	2.089	NC_ULS-Set B	CS6 - L50X5	S 235	**0.40**	0.40	0.00

Name	dx [m]	Case	Cross-section	Material	$UC_{Overall}$ [-]	UC_{Sec} [-]	UC_{Stab} [-]
		(auto).10					
B281	2.122	NC_ULS-Set B (auto).18	CS6 - L50X5	S 235	**0.33**	0.33	0.00
B282	2.089	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.45**	0.45	0.00
B283	2.122	NC_ULS-Set B (auto).25	CS6 - L50X5	S 235	**0.57**	0.57	0.00
B284	2.105	NC_ULS-Set B (auto).9	CS6 - L50X5	S 235	**0.39**	0.39	0.00
B285	2.105	NC_ULS-Set B (auto).18	CS6 - L50X5	S 235	**0.43**	0.43	0.00
B286	2.105	NC_ULS-Set B (auto).26	CS6 - L50X5	S 235	**0.29**	0.29	0.00
B287	2.105	NC_ULS-Set B (auto).17	CS6 - L50X5	S 235	**0.36**	0.36	0.00
B288	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B289	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B290	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B291	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.01**	0.01	0.00
B292	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B293	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B294	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B295	1.625	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.02**	0.02	0.00
B296	1.425	NC_ULS-Set B (auto).4	CS5 - UPN140	S 235	**0.59**	0.59	0.27
B415	2.194	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.84**	0.84	0.00
B416	0.000	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.86**	0.86	0.00
B417	0.000	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.87**	0.87	0.00
B418	0.000	NC_ULS-Set B (auto).4	CS17 - L60X6	S 235	**0.85**	0.85	0.00
B419	0.000	NC_ULS-Set B (auto).1	CS6 - L50X5	S 235	**0.00**	0.00	0.00
B420	3.402+	NC_ULS-Set B (auto).23	CS4 - I + I var (IPE330; 300.00)	S 235	**0.76**	0.76	0.00
B421	0.000	NC_ULS-Set B (auto).9	CS2 - IPE450	S 235	**0.43**	0.37	0.43
B422	8.479+	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.56**	0.56	0.00
B423	0.000	NC_ULS-Set B (auto).9	CS2 - IPE450	S 235	**0.44**	0.38	0.44
B424	3.402+	NC_ULS-Set B (auto).23	CS4 - I + I var (IPE330; 300.00)	S 235	**0.75**	0.75	0.00
B425	0.000	NC_ULS-Set B (auto).17	CS2 - IPE450	S 235	**0.43**	0.37	0.43
B426	8.479+	NC_ULS-Set B (auto).4	CS4 - I + I var (IPE330; 300.00)	S 235	**0.56**	0.56	0.00
B427	0.000	NC_ULS-Set B (auto).17	CS2 - IPE450	S 235	**0.43**	0.38	0.43
B432	0.737	NC_ULS-Set B (auto).15	CS7 - IPE270	S 235	**0.98**	0.12	0.98
B433	0.200	NC_ULS-Set B (auto).4	CS6 - L50X5	S 235	**0.97**	0.97	0.85

7.4. Fundatie

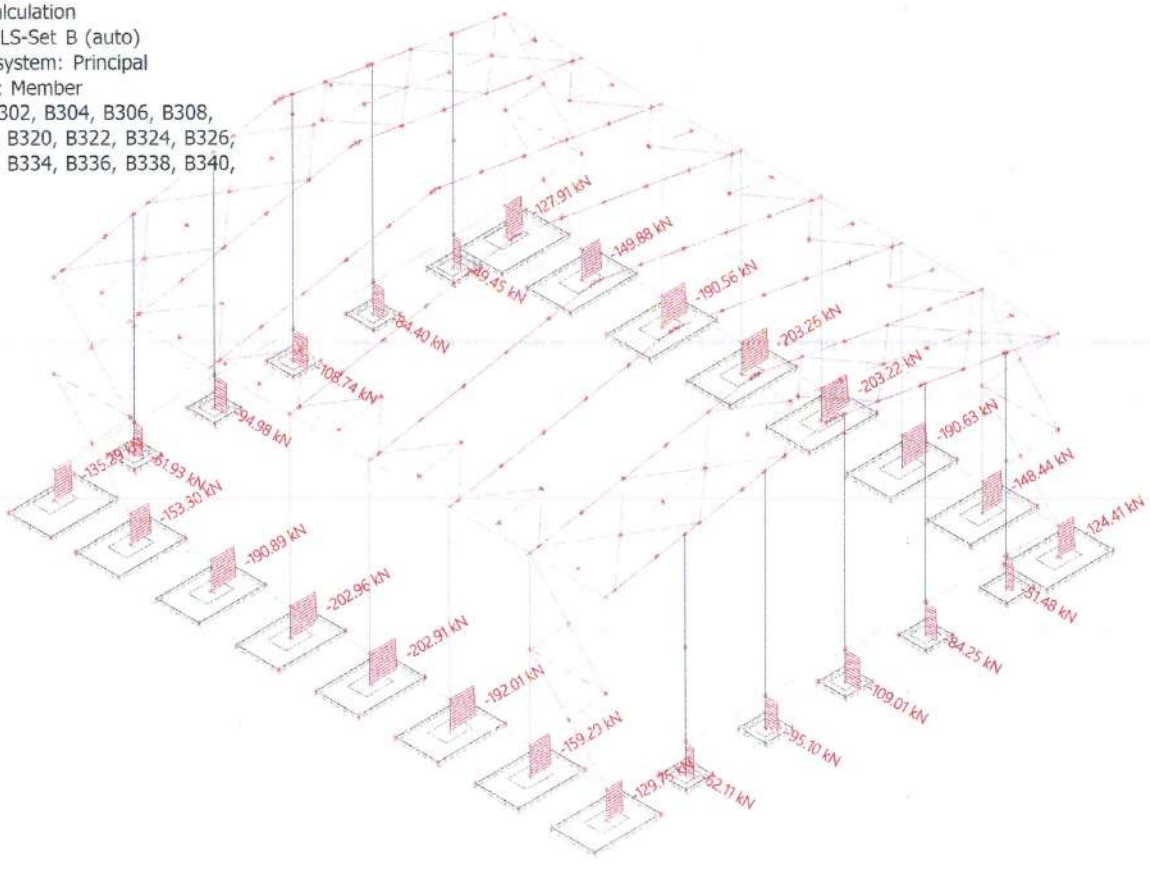
7.4.1. Presiune pe talpa dundatiei

Values: σ_z
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Extreme: Member
Selection: All
Location: In nodes avg.. System: LCS
mesh element



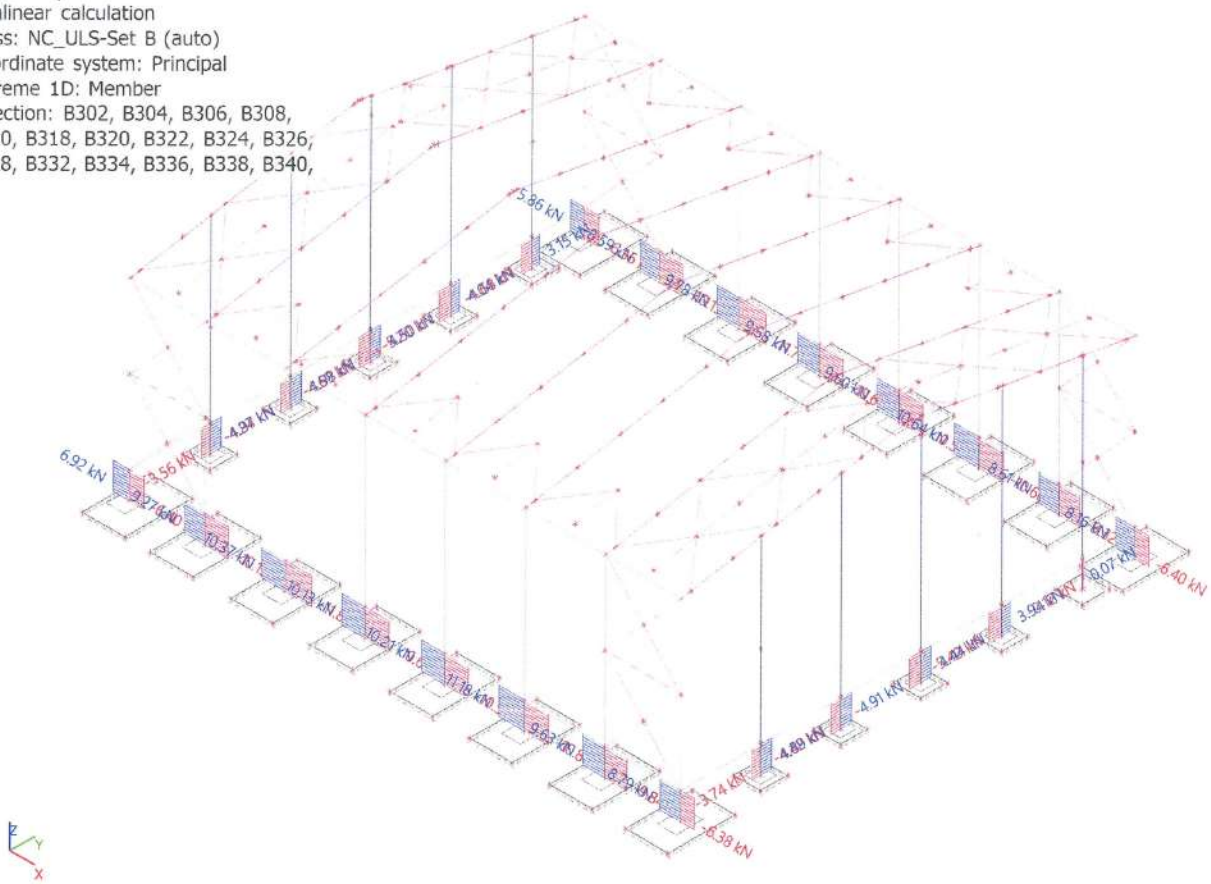
7.4.2. 1D internal forces; N

Values: **N**
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: B302, B304, B306, B308, B310, B318, B320, B322, B324, B326, B328, B332, B334, B336, B338, B340, ...



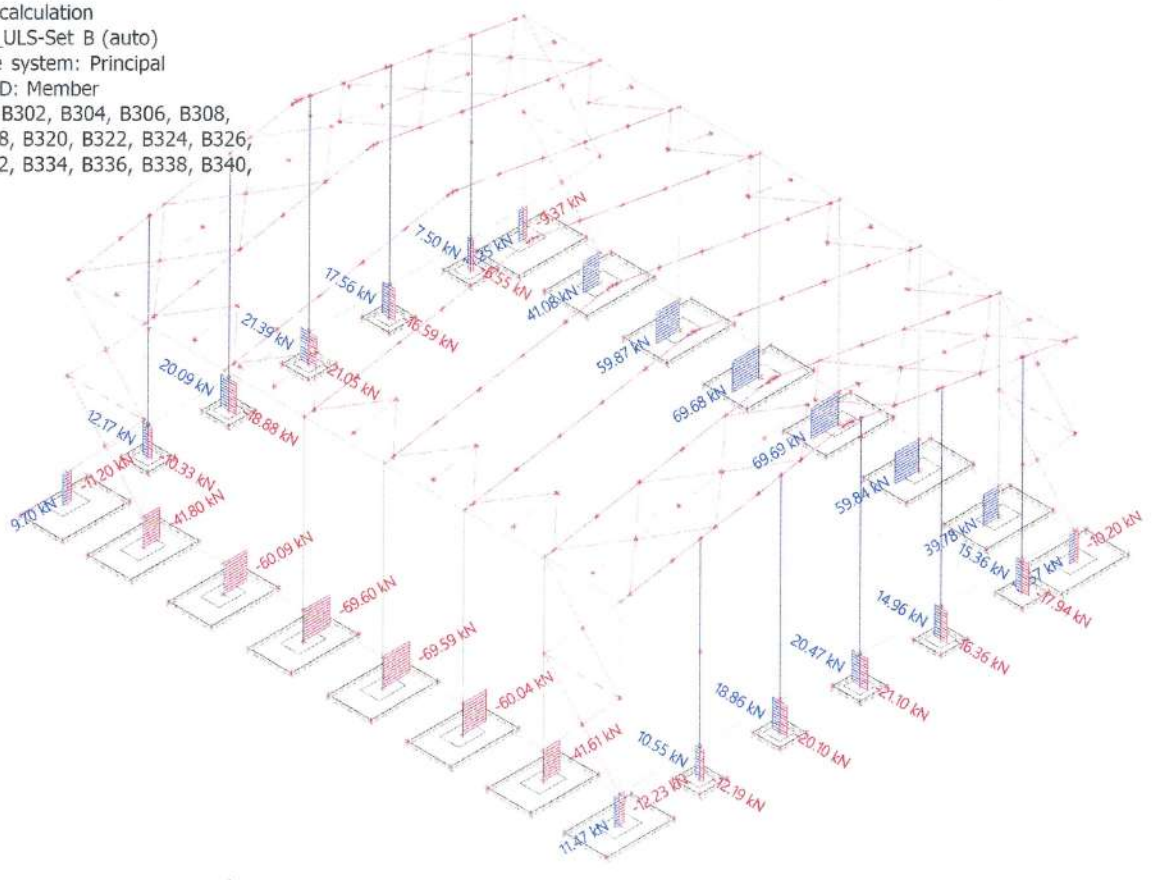
7.4.3. 1D internal forces; V_y

Values: V_y
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: B302, B304, B306, B308, B310, B318, B320, B322, B324, B326, B328, B332, B334, B336, B338, B340, ...



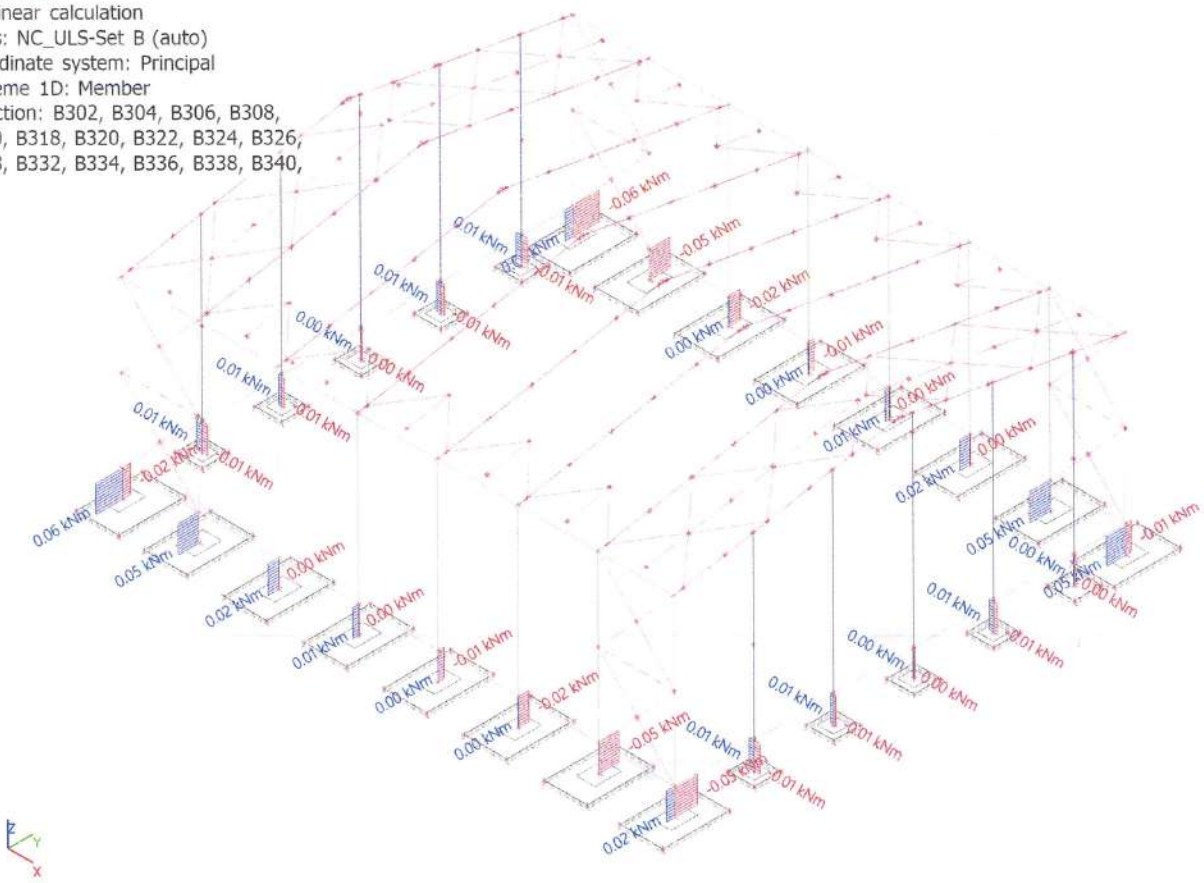
7.4.4. 1D internal forces; V_z

Values: V_z
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: B302, B304, B306, B308, B310, B318, B320, B322, B324, B326, B328, B332, B334, B336, B338, B340, ...



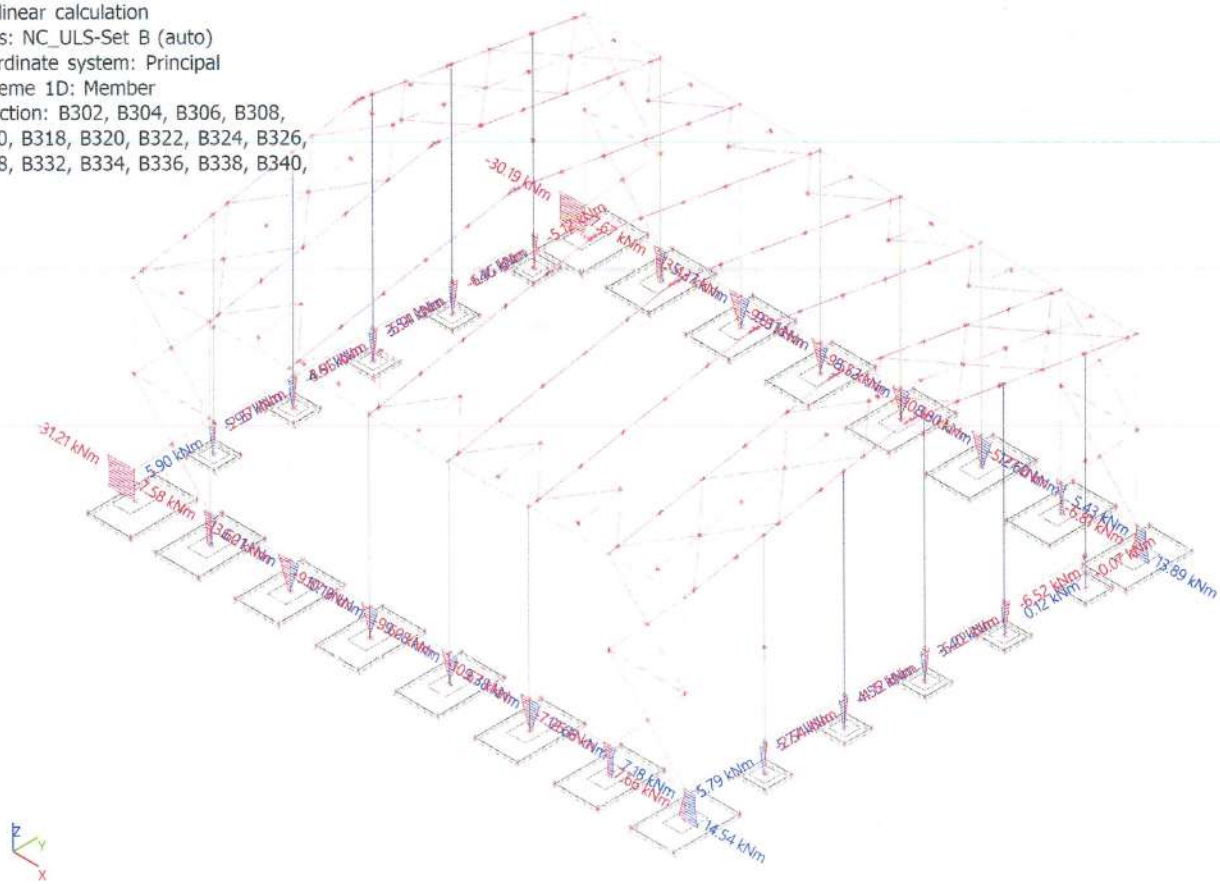
7.4.5. 1D internal forces; M_x

Values: M_x
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: B302, B304, B306, B308, B310, B318, B320, B322, B324, B326, B328, B332, B334, B336, B338, B340, ...



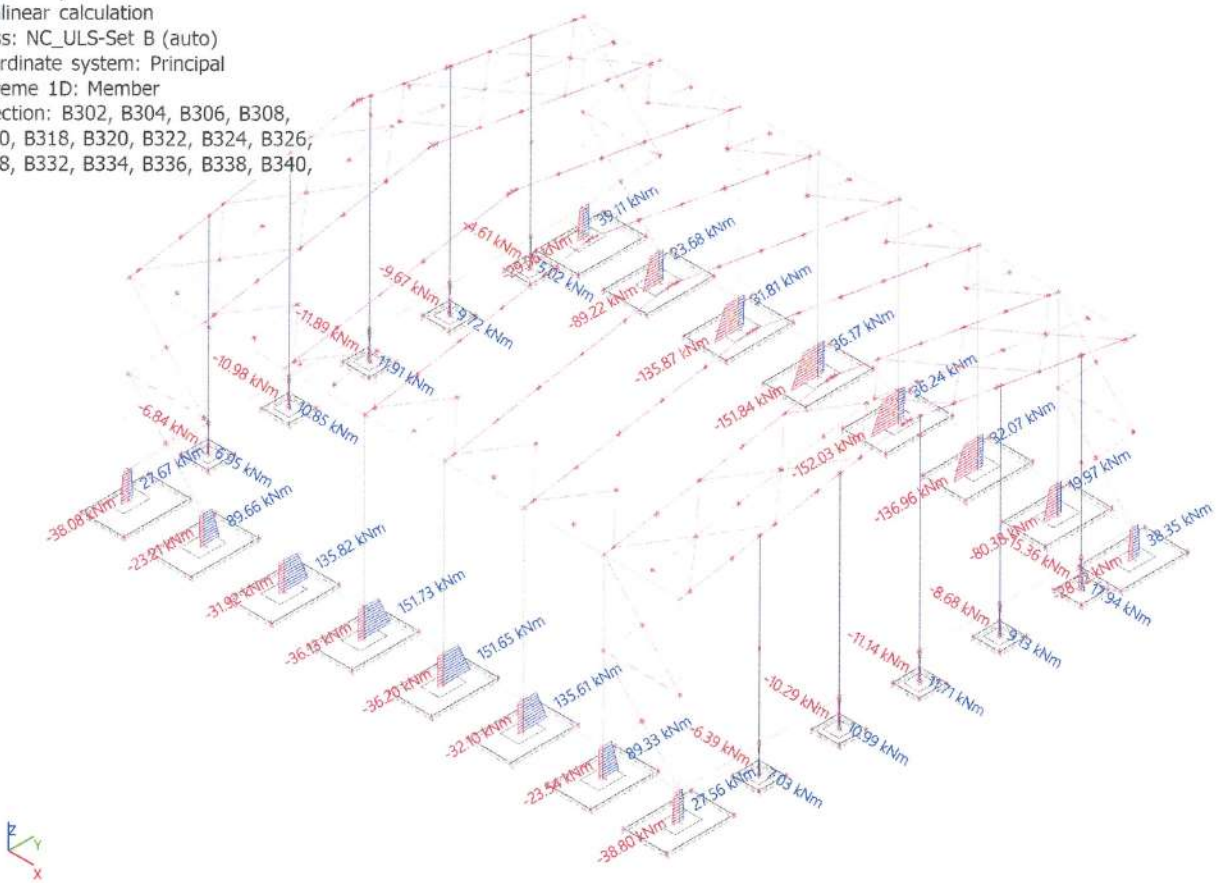
7.4.6. 1D internal forces; M_z

Values: M_z
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: B302, B304, B306, B308, B310, B318, B320, B322, B324, B326, B328, B332, B334, B336, B338, B340, ...



7.4.7. 1D internal forces; M_y

Values: M_y
Nonlinear calculation
Class: NC_ULS-Set B (auto)
Coordinate system: Principal
Extreme 1D: Member
Selection: B302, B304, B306, B308, B310, B318, B320, B322, B324, B326, B328, B332, B334, B336, B338, B340, ...



7.5. Buloane de ancorare

Project data

Project name	
Project number	
Author	
Description	
Date	9/27/2025
Code	

Material

Steel	S 235
Concrete	C20/25, C25/30

Project item N25

Design

Name	N25
Description	
Analysis	Stress, strain/ loads in equilibrium

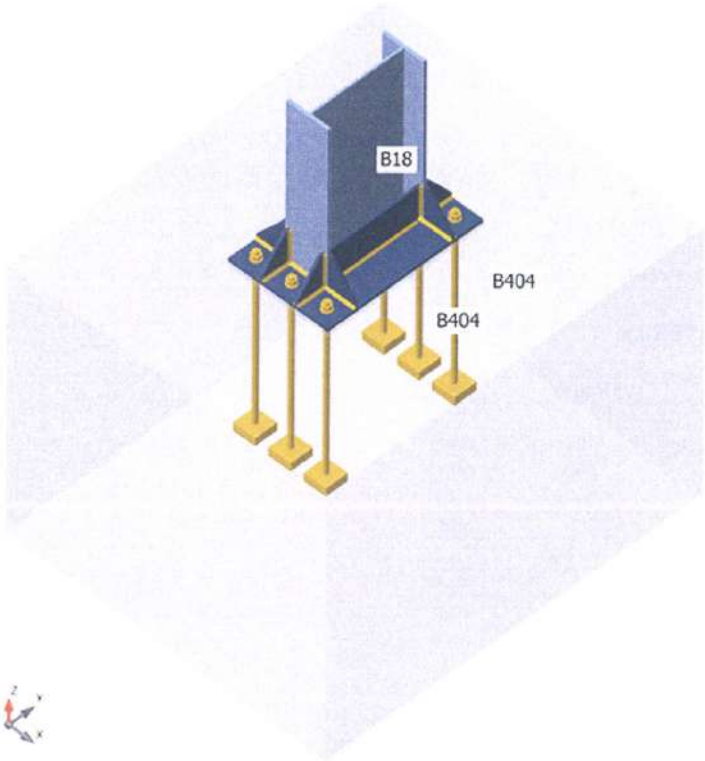
Members

Geometry

Name	Cross-section	β – Direction [°]	γ - Pitch [°]	α - Rotation [°]	Offset ex [mm]	Offset ey [mm]	Offset ez [mm]
B18	6 - IPE450	0.0	90.0	90.0	0	0	0
B404	406 - CS16	0.0	0.0	0.0	0	0	0

Supports and forces

Name	Support	Forces in	X [mm]
B18 / end		Position	0



Cross-sections

Name	Material
6 - IPE450	S 235
406 - CS16	C20/25

Anchors

Name	Diameter [mm]	f_y [MPa]	f_u [MPa]	Gross area [mm^2]
M24 8.8	24	640.0	800.0	452

Load effects (forces in equilibrium)

Name	Member	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
ULS-Set B (auto)5(1)	B18 / End	-139.1	0.1	-57.9	0.0	77.9	0.2
	B404 / End	13.4	0.0	-6.2	0.0	2.2	-2.0
ULS-Set B (auto)100(2)	B18 / End	-35.3	0.0	-10.0	0.0	13.4	0.0
	B404 / End	1.8	0.0	-4.6	0.0	2.1	-0.3
ULS-Set B (auto)1(3)	B18 / End	-47.7	0.0	-13.4	0.0	18.1	0.0
	B404 / End	2.4	0.0	-6.2	0.0	2.9	-0.5

ULS-Set B (auto)8(4)	B18 / End	-126.7	0.1	-54.5	0.0	73.2	0.2
	B404 / End	12.8	0.0	-4.6	0.0	1.5	-1.9

Unbalanced forces

Name	X [kN]	Y [kN]	Z [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
ULS-Set B (auto)5(1)	13.4	57.9	-145.3	-77.9	2.1	-2.0
ULS-Set B (auto)100(2)	1.8	10.0	-39.9	-13.4	2.1	-0.3
ULS-Set B (auto)1(3)	2.4	13.4	-53.9	-18.1	2.9	-0.5
ULS-Set B (auto)8(4)	12.7	54.5	-131.3	-73.2	1.3	-1.9

Foundation block

Item	Value	Unit
CB 1		
Dimensions	1450 x 1700	mm
Depth	1200	mm
Anchor	M24 8.8	
Anchoring length	700	mm
Shear force transfer	Anchors	
Mortar joint	20	mm

Check

Summary

Name	Value	Check status
Analysis	100.0%	OK
Plates	0.0 < 5.0%	OK
Anchors	65.2 < 100%	OK
Welds	32.0 < 100%	OK
Concrete block	15.0 < 100%	OK
Buckling	Not calculated	

Plates

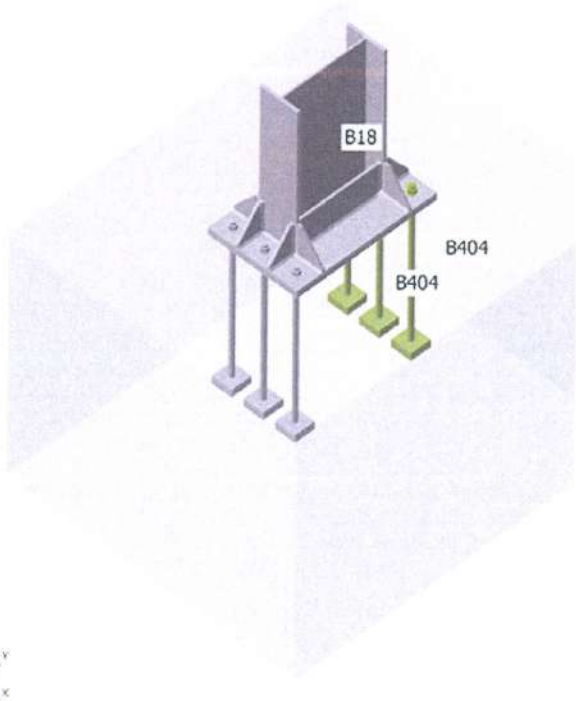
Name	t_p [mm]	Loads	σ_{Ed} [MPa]	ε_{Pl} [%]	$\sigma_{c,Ed}$ [MPa]	Status
B18-bfl 1	14.6	ULS-Set B (auto)5(1)	92.1	0.0	0.0	OK
B18-tfl 1	14.6	ULS-Set B (auto)5(1)	50.0	0.0	0.0	OK
B18-w 1	9.4	ULS-Set B (auto)5(1)	60.3	0.0	0.0	OK
BP1	15.0	ULS-Set B (auto)5(1)	153.5	0.0	0.0	OK
WID1a	12.0	ULS-Set B (auto)5(1)	121.5	0.0	0.0	OK
WID1b	12.0	ULS-Set B (auto)5(1)	123.8	0.0	0.0	OK
WID1c	12.0	ULS-Set B (auto)5(1)	64.6	0.0	0.0	OK
WID1d	12.0	ULS-Set B (auto)5(1)	63.1	0.0	0.0	OK
RIB1a	12.0	ULS-Set B (auto)5(1)	99.8	0.0	0.0	OK
RIB1b	12.0	ULS-Set B (auto)5(1)	99.2	0.0	0.0	OK
RIB2a	12.0	ULS-Set B (auto)5(1)	62.7	0.0	0.0	OK
RIB2b	12.0	ULS-Set B (auto)5(1)	62.7	0.0	0.0	OK
RIB3a	12.0	ULS-Set B (auto)5(1)	50.8	0.0	0.0	OK
RIB3b	12.0	ULS-Set B (auto)5(1)	50.6	0.0	0.0	OK

Design data

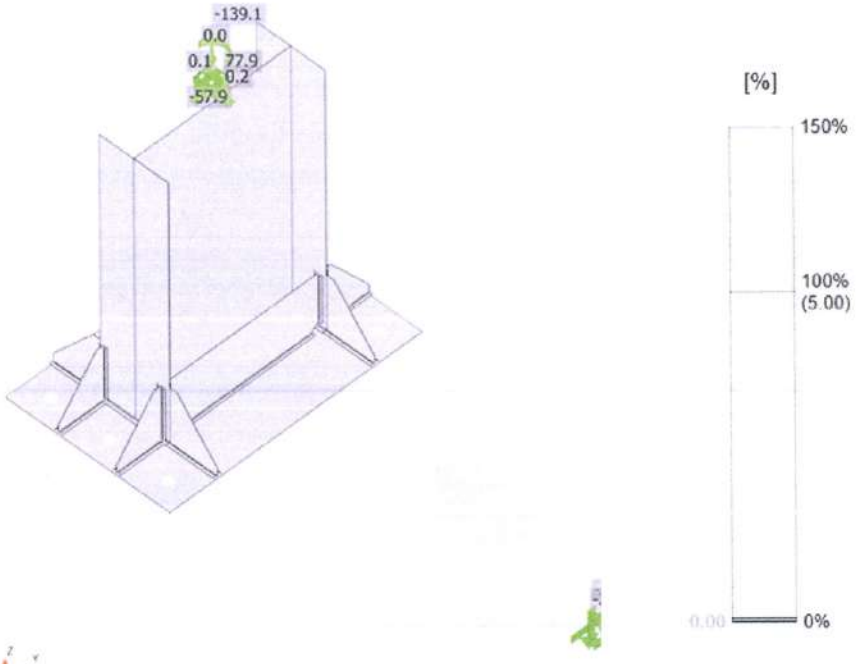
Material	f_y [MPa]	ε_{lim} [%]
S 235	235.0	5.0

Symbol explanation

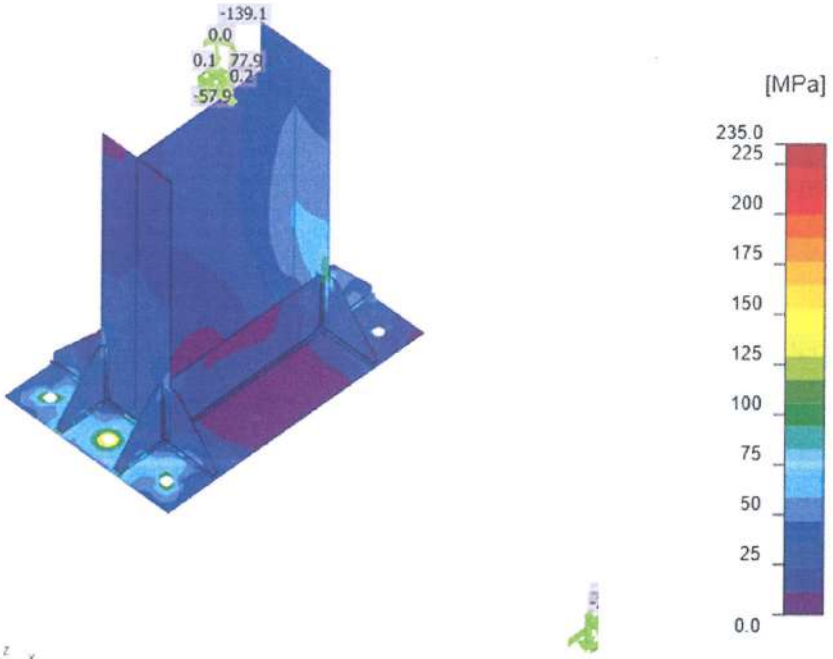
t_p	Plate thickness
σ_{Ed}	Equivalent stress
ε_{Pl}	Plastic strain
$\sigma_{c,Ed}$	Contact stress
f_y	Yield strength
ε_{lim}	Limit of plastic strain



Overall check, ULS-Set B (auto)5(1)



Strain check, ULS-Set B (auto)5(1)



Equivalent stress, ULS-Set B (auto)5(1)

Anchors

Shape	Item	Loads	N_{Ed} [kN]	V_{Ed} [kN]	$N_{Rd,c}$ [kN]	$N_{Rd,p}$ [kN]	$N_{Rd,cb}$ [kN]	$V_{Rd,s}$ [kN]	$V_{Rd,c}$ [kN]	$V_{Rd,cp}$ [kN]	Ut [%]	Uts [%]	Uts [%]	Detailing	Status
	A1	ULS-Set B (auto) 5(1)	23.2	9.5	205.4	795.6	0.0	0.0	204.3	746.9	43.4	16.9	31.5	OK	OK
	A2	ULS-Set B (auto) 5(1)	23.8	9.5	205.4	795.6	0.0	0.0	0.0	746.9	43.4	16.9	30.8	OK	OK
	A3	ULS-Set B (auto) 5(1)	42.2	9.8	205.4	795.6	0.0	0.0	0.0	746.9	43.4	17.4	30.8	OK	OK
	A4	ULS-Set B (auto) 5(1)	0.0	9.6	0.0	795.6	0.0	0.0	888.8	746.9	0.0	65.2	52.7	OK	OK

	A5	ULS-Set B (auto) 5(1)	0.0	9.6	0.0	795.6	0.0	0.0	888	746.9	0.0	65.2	52.7	OK	OK
	A6	ULS-Set B (auto) 5(1)	0.0	10.0	0.0	795.6	0.0	0.0	888	746.9	0.0	65.2	52.7	OK	OK

Design data

Grade	$N_{Rd,s}$ [kN]
M24 8.8 - 1	172.8

Symbol explanation

N_{Ed}	Tension force
V_{Ed}	Resultant of bolt shear forces Vy and Vz in shear planes
$N_{Rd,c}$	Design resistance in case of concrete cone failure under tension load - EN 1992-4 – 7.2.1.4
$N_{Rd,p}$	Design resistance in case of pull-out failure - EN 1992-4 – 7.2.1.5
$N_{Rd,cb}$	Design resistance in case of concrete blow-out failure - EN 1992-4 – 7.2.1.8
$V_{Rd,s}$	Design shear resistance of a fastener in case of steel failure - EN 1992-4 – 7.2.2.3.2
$V_{Rd,c}$	Design resistance in case of concrete cone failure under shear load - EN 1992-4 – 7.2.2.5
$V_{Rd,cp}$	Design resistance in case of concrete pryout failure - EN 1992-4 – 7.2.2.4
Ut_t	Utilization in tension
Ut_s	Utilization in shear
Ut_{ts}	Utilization in tension and shear
$N_{Rd,s}$	Design tensile resistance of a fastener in case of steel failure - EN 1992-4 – 7.2.1.3

Welds

Item	Edge	T_w [mm]	L [mm]	Loads	$\sigma_{w,Ed}$ [MPa]	ε_{Pl} [%]	$\sigma_{\perp}$ [MPa]	$\tau_{\perp}$ [MPa]	$\tau_{\parallel}$ [MPa]	Ut [%]	Ut_c [%]	Detailing	Status
BP 1	B18-bfl 1	◢ 7.0 ◣	190	ULS-Set B (auto)5(1)	48.0	0.0	-0.9	-27.7	1.6	13.3	9.0	OK	OK
		◢ 7.0 ◣	190	ULS-Set B (auto)5(1)	58.3	0.0	-46.8	20.0	-1.1	18.1	10.1	OK	OK
BP 1	B18-tfl 1	◢ 7.0 ◣	190	ULS-Set B (auto)5(1)	86.0	0.0	64.9	32.5	1.4	25.1	12.6	OK	OK
		◢ 7.0 ◣	190	ULS-Set B (auto)5(1)	52.4	0.0	-2.2	-30.2	-1.6	14.6	8.8	OK	OK
BP 1	B18-w 1	◢ 5.0 ◣	435	ULS-Set B (auto)5(1)	48.6	0.0	-24.4	-23.8	4.7	13.5	8.5	OK	OK

		◢ 5.0 ◣	435	ULS-Set B (auto)5(1)	49.7	0.0	-24.0	24.6	-4.9	13.8	8.5	OK	OK
BP 1	WID 1a	◢ 6.5 ◣	129	ULS-Set B (auto)5(1)	40.6	0.0	-19.0	-19.0	8.4	11.3	9.1	OK	OK
		◢ 6.5 ◣	129	ULS-Set B (auto)5(1)	48.8	0.0	-18.4	18.4	-18.5	13.6	9.9	OK	OK
B18-bfl 1	WID 1a	-	150	-	-	-	-	-	-	-	-	OK	OK
BP 1	WID 1b	◢ 6.5 ◣	129	ULS-Set B (auto)5(1)	56.6	0.0	-23.1	-23.1	18.8	15.7	10.7	OK	OK
		◢ 6.5 ◣	129	ULS-Set B (auto)5(1)	50.3	0.0	-23.2	23.2	-11.2	14.0	10.0	OK	OK
B18-bfl 1	WID 1b	-	150	-	-	-	-	-	-	-	-	OK	OK
BP 1	WID 1c	◢ 6.5 ◣	128	ULS-Set B (auto)5(1)	66.1	0.0	16.6	11.2	-35.3	18.4	11.7	OK	OK
		◢ 6.5 ◣	128	ULS-Set B (auto)5(1)	34.1	0.0	-0.4	-3.6	-19.3	9.5	7.0	OK	OK
B18-tfl 1	WID 1c	-	150	-	-	-	-	-	-	-	-	OK	OK
BP 1	WID 1d	◢ 6.5 ◣	128	ULS-Set B (auto)5(1)	36.0	0.0	1.5	5.4	20.1	10.0	7.9	OK	OK
		◢ 6.5 ◣	128	ULS-Set B (auto)5(1)	70.2	0.0	6.5	-7.6	39.6	19.5	11.1	OK	OK
B18-tfl 1	WID 1d	-	150	-	-	-	-	-	-	-	-	OK	OK
BP 1	RIB1 a	◢ 6.0 ◣	123	ULS-Set B (auto)5(1)	64.3	0.0	-15.2	-15.4	32.6	17.9	12.1	OK	OK
		◢ 6.0 ◣	123	ULS-Set B (auto)5(1)	65.5	0.0	-26.5	27.2	-21.4	18.2	12.7	OK	OK

B18-bfl1	RIB1a	◢6.0◣	149	ULS-Set B (auto)5(1)	115.2	0.0	-41.1	-35.0	-51.4	32.0	19.4	OK	OK
		◢6.0◣	149	ULS-Set B (auto)5(1)	103.9	0.0	-31.6	37.6	43.0	28.9	17.2	OK	OK
BP1	RIB1b	◢6.0◣	123	ULS-Set B (auto)5(1)	66.2	0.0	-27.1	-27.2	21.8	18.4	12.0	OK	OK
		◢6.0◣	123	ULS-Set B (auto)5(1)	62.1	0.0	-7.9	10.4	-34.0	17.2	11.3	OK	OK
B18-bfl1	RIB1b	◢6.0◣	149	ULS-Set B (auto)5(1)	102.1	0.0	-31.3	-37.3	-41.9	28.4	16.8	OK	OK
		◢6.0◣	149	ULS-Set B (auto)5(1)	113.2	0.0	-40.7	34.7	50.2	31.4	18.7	OK	OK
BP1	RIB2a	◢6.0◣	123	ULS-Set B (auto)5(1)	94.0	0.0	18.3	15.1	-51.1	26.1	13.9	OK	OK
		◢6.0◣	123	ULS-Set B (auto)5(1)	88.4	0.0	10.0	-13.1	49.0	24.6	12.4	OK	OK
B18-tfl1	RIB2a	◢6.0◣	149	ULS-Set B (auto)5(1)	54.5	0.0	18.1	22.7	19.2	15.1	9.8	OK	OK
		◢6.0◣	149	ULS-Set B (auto)5(1)	65.0	0.0	22.5	-20.9	-28.3	18.0	11.2	OK	OK
BP1	RIB2b	◢6.0◣	123	ULS-Set B (auto)5(1)	75.4	0.0	10.5	9.7	-42.0	21.0	11.1	OK	OK
		◢6.0◣	123	ULS-Set B (auto)5(1)	76.1	0.0	14.3	-15.1	40.4	21.1	11.9	OK	OK
B18-tfl1	RIB2b	◢6.0◣	149	ULS-Set B (auto)5(1)	66.2	0.0	26.2	21.7	27.5	18.4	12.5	OK	OK
		◢6.0◣	149	ULS-Set B (auto)5(1)	57.0	0.0	18.7	-23.2	-20.7	15.8	9.9	OK	OK
BP1	RIB3a	◢5.5◣	380	ULS-Set B	32.2	0.0	-2.2	-2.4	-18.4	8.9	8.0	OK	OK

				(auto)5(1)									
		◢ 5.5 ◣	380	ULS-Set B (auto)5(1)	38.6	0.0	-6.7	6.4	21.0	10.7	8.6	OK	OK
B18-tfl1	RIB3a	◢ 5.5 ◣	130	ULS-Set B (auto)5(1)	32.5	0.0	6.3	-11.6	-14.3	9.0	6.9	OK	OK
		◢ 5.5 ◣	130	ULS-Set B (auto)5(1)	53.3	0.0	21.0	15.6	23.5	14.8	9.5	OK	OK
BP1	RIB3b	◢ 5.5 ◣	380	ULS-Set B (auto)5(1)	40.0	0.0	-8.2	-8.1	-21.1	11.1	8.8	OK	OK
		◢ 5.5 ◣	380	ULS-Set B (auto)5(1)	33.5	0.0	-5.1	5.2	18.4	9.3	8.2	OK	OK
B18-tfl1	RIB3b	◢ 5.5 ◣	130	ULS-Set B (auto)5(1)	54.8	0.0	21.4	-16.1	-24.3	15.2	9.8	OK	OK
		◢ 5.5 ◣	130	ULS-Set B (auto)5(1)	34.2	0.0	6.8	12.1	15.1	9.5	7.0	OK	OK
B18-bfl1	RIB3a	◢ 6.0 ◣	130	ULS-Set B (auto)5(1)	78.3	0.0	-17.8	-23.9	37.0	21.8	11.8	OK	OK
		◢ 6.0 ◣	130	ULS-Set B (auto)5(1)	95.0	0.0	-29.6	23.5	-46.5	26.4	14.1	OK	OK
B18-bfl1	RIB3b	◢ 6.0 ◣	130	ULS-Set B (auto)5(1)	94.1	0.0	-29.4	-23.4	46.0	26.1	14.0	OK	OK
		◢ 6.0 ◣	130	ULS-Set B (auto)5(1)	77.7	0.0	-17.8	23.8	-36.6	21.6	11.7	OK	OK

Design data

Material	f_u [MPa]	β_w [-]	$\sigma_{w,Rd}$ [MPa]	0.9 σ [MPa]
S 235	360.0	0.80	360.0	259.2

Symbol explanation

T_w Throat thickness a
L Length

$\sigma_{w,Ed}$	Equivalent stress
ε_{Pl}	Strain
$\sigma_{\perp}$	Perpendicular stress
$\tau_{\perp}$	Shear stress perpendicular to weld axis
$\tau_{\parallel}$	Shear stress parallel to weld axis
Ut	Utilization
Ut_c	Weld capacity estimation
◢	Fillet weld
f_u	Ultimate strength of weld
β_w	Correlation factor EN 1993-1-8 – Tab. 4.1
$\sigma_{w,Rd}$	Equivalent stress resistance
0.9 σ	Perpendicular stress resistance: 0.9*fu/γM2

Concrete block

Item	Loads	c [mm]	A_{eff} [mm²]	σ [MPa]	k_j [-]	f_{jd} [MPa]	Ut [%]	Status
CB 1	ULS-Set B (auto)5(1)	26	57462	4.0	3.00	26.8	15.0	OK

Symbol explanation

c	Bearing width
A_{eff}	Effective area
σ	Average stress in concrete
k_j	Concentration factor
f_{jd}	The ultimate bearing strength of the concrete block
Ut	Utilization

Buckling

Buckling analysis was not calculated.

Code settings

Item	Value	Unit	Reference
Safety factor γ_{M0}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M1}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M2}	1.25	-	EN 1993-1-1 – 6.1, EN 1993-1-8 – Table 2.1
Safety factor γ_{M3}	1.25	-	EN 1993-1-8 – Table 2.1
Safety factor γ_C	1.50	-	EN 1992-1-1 – 2.4.2.4
Safety factor γ_{Inst}	1.20	-	EN 1992-4 – Table 4.1
Joint coefficient βj	0.67	-	EN 1993-1-8 – 6.2.5(7)
Effective area - influence of mesh size	0.10	-	
Friction coefficient - concrete	0.25	-	EN 1993-1-8
Friction coefficient in slip-resistance	0.30	-	EN 1993-1-8 – Table 3.7
Limit plastic strain	0.05	-	EN 1993-1-5
Detailing	Yes		
Distance between bolts [d0]	2.20	-	EN 1993-1-8 – Table 3.3
Distance between bolts and edge [d0]	1.20	-	EN 1993-1-8 – Table 3.3

Concrete breakout resistance check	Both		
Cracked concrete	Yes		EN 1992-4
Local deformation check	Yes		
Local deformation limit	0.03	-	CIDECT DG 1, 3 – 1.1
Geometrical nonlinearity (GMNA)	Yes		Analysis with large deformations for hollow section joints
Braced system	No		EN 1993-1-8 – 5.2.2.5

7.6. Imbinare stalp grinda

Project data

Project name	
Project number	
Author	
Description	
Date	9/27/2025
Code	

Material

Steel	S 235
Concrete	C20/25, C25/30

Project item N16

Design

Name	N16
Description	
Analysis	Stress, strain/ loads in equilibrium

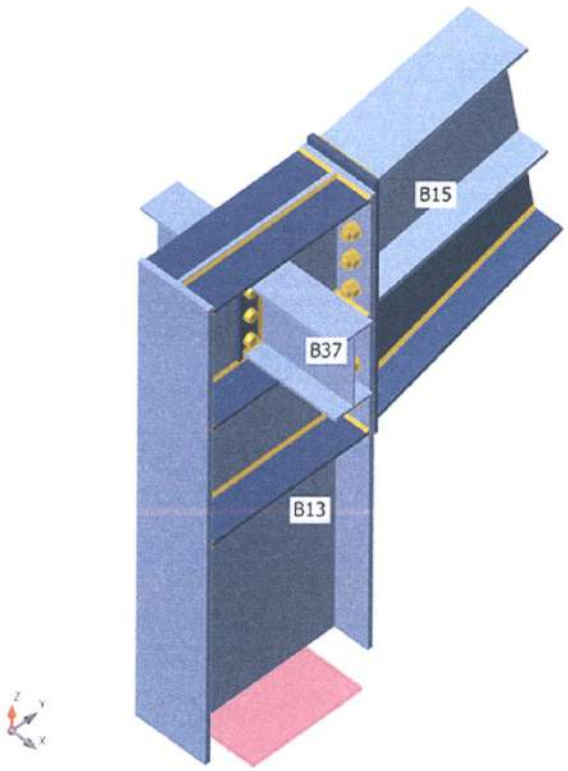
Members

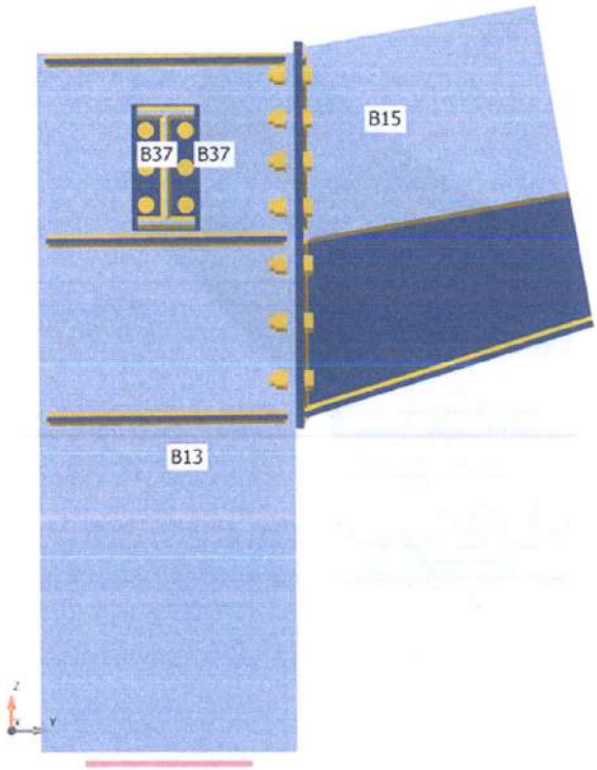
Geometry

Name	Cross-section	β – Direction [°]	γ - Pitch [°]	α - Rotation [°]	Offset ex [mm]	Offset ey [mm]	Offset ez [mm]
B13	6 - IPE450	0.0	90.0	90.0	0	0	0
B15	30 - IPE330	90.0	10.0	0.0	0	0	0
B36	36 - IPE200	0.0	0.0	0.0	0	0	0
B37	36 - IPE200	0.0	0.0	0.0	0	0	0

Supports and forces

Name	Support	Forces in	X [mm]
B13 / begin	N-Vy-Vz-Mx-My-Mz	Position	0
B15 / end		Position	0
B36 / begin		Position	0
B37 / end		Position	0


B15
B37
B13



Cross-sections

Name	Material
6 - IPE450	S 235
30 - IPE330	S 235
36 - IPE200	S 235

Bolts

Name	Diameter [mm]	f_y [MPa]	f_u [MPa]	Gross area [mm^2]
M20 8.8	20	640.0	800.0	314
M16 8.8	16	640.0	800.0	201

Load effects (forces in equilibrium)

Name	Member	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
ULS-Set B (auto)5(1)	B13 / Begin	120.0	0.1	-57.7	0.0	-280.7	-0.2
	B15 / End	-77.5	-6.7	-104.6	0.0	270.0	-0.5
	B36 / Begin	-64.7	0.0	-1.6	0.0	-0.6	0.0
	B37 / End	58.1	0.5	-2.0	0.0	1.2	0.6

ULS-Set B (auto)100(2)	B13 / Begin	21.3	0.0	-9.9	0.0	-48.2	0.0
	B15 / End	-13.3	-1.1	-18.2	0.0	46.3	-0.1
	B36 / Begin	-11.8	0.0	-0.5	0.0	-0.2	0.0
	B37 / End	10.7	0.1	-0.5	0.0	0.3	0.1
ULS-Set B (auto)8(3)	B13 / Begin	112.6	0.1	-54.2	0.0	-263.9	-0.2
	B15 / End	-72.8	-6.3	-98.2	0.0	253.8	-0.5
	B36 / Begin	-60.6	0.0	-1.4	0.0	-0.6	0.0
	B37 / End	54.3	0.4	-1.8	0.0	1.1	0.6
ULS-Set B (auto)1(4)	B13 / Begin	28.7	0.0	-13.4	0.0	-65.0	-0.1
	B15 / End	-18.0	-1.5	-24.6	0.0	62.6	-0.1
	B36 / Begin	-15.9	0.0	-0.6	0.0	-0.3	0.0
	B37 / End	14.4	0.1	-0.7	0.0	0.4	0.1

Unbalanced forces

Name	X [kN]	Y [kN]	Z [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
ULS-Set B (auto)5(1)	0.0	0.0	0.0	10.7	0.9	0.2
ULS-Set B (auto)100(2)	0.0	0.0	0.0	1.8	0.2	0.0
ULS-Set B (auto)8(3)	0.0	0.0	0.0	10.1	0.9	0.2
ULS-Set B (auto)1(4)	0.0	0.0	0.0	2.5	0.2	0.0

Check

Summary

Name	Value	Check status
Analysis	100.0%	OK
Plates	0.4 < 5.0%	OK
Bolts	82.9 < 100%	OK
Welds	98.5 < 100%	OK
Buckling	Not calculated	

Plates

Name	t_p [mm]	Loads	σ_{Ed} [MPa]	ε_{Pl} [%]	$\sigma_{c,Ed}$ [MPa]	Status
B13-bfl 1	14.6	ULS-Set B (auto)5(1)	235.7	0.3	57.8	OK
B13-tfl 1	14.6	ULS-Set B (auto)5(1)	175.8	0.0	0.0	OK
B13-w 1	9.4	ULS-Set B (auto)5(1)	235.1	0.0	57.8	OK
B15-bfl 1	11.5	ULS-Set B (auto)5(1)	84.4	0.0	0.0	OK
B15-tfl 1	11.5	ULS-Set B (auto)5(1)	235.3	0.2	0.0	OK
B15-w 1	7.5	ULS-Set B (auto)5(1)	233.4	0.0	0.0	OK
B36-bfl 1	8.5	ULS-Set B (auto)5(1)	87.5	0.0	0.0	OK
B36-tfl 1	8.5	ULS-Set B (auto)5(1)	112.2	0.0	0.0	OK
B36-w 1	5.6	ULS-Set B (auto)5(1)	63.6	0.0	0.0	OK
B37-bfl 1	8.5	ULS-Set B (auto)5(1)	93.0	0.0	0.0	OK
B37-tfl 1	8.5	ULS-Set B (auto)5(1)	149.1	0.0	0.0	OK
B37-w 1	5.6	ULS-Set B (auto)5(1)	81.7	0.0	0.0	OK
EP1	15.0	ULS-Set B (auto)5(1)	235.8	0.4	68.1	OK
WID1a	7.5	ULS-Set B (auto)5(1)	230.9	0.0	0.0	OK
WID1b	11.5	ULS-Set B (auto)5(1)	235.2	0.1	0.0	OK

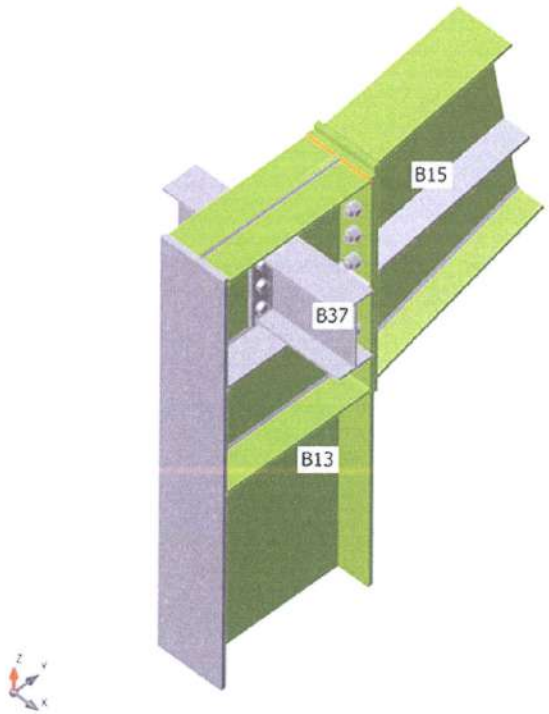
EP2a	10.0	ULS-Set B (auto)5(1)	191.1	0.0	25.9	OK
EP2b	10.0	ULS-Set B (auto)5(1)	157.2	0.0	18.8	OK
STIFF1a	10.0	ULS-Set B (auto)5(1)	88.5	0.0	0.0	OK
STIFF1b	10.0	ULS-Set B (auto)5(1)	77.9	0.0	0.0	OK
STIFF2a	10.0	ULS-Set B (auto)5(1)	176.8	0.0	0.0	OK
STIFF2b	10.0	ULS-Set B (auto)5(1)	164.6	0.0	0.0	OK
STIFF3a	10.0	ULS-Set B (auto)5(1)	235.0	0.0	0.0	OK
STIFF3b	10.0	ULS-Set B (auto)5(1)	231.5	0.0	0.0	OK

Design data

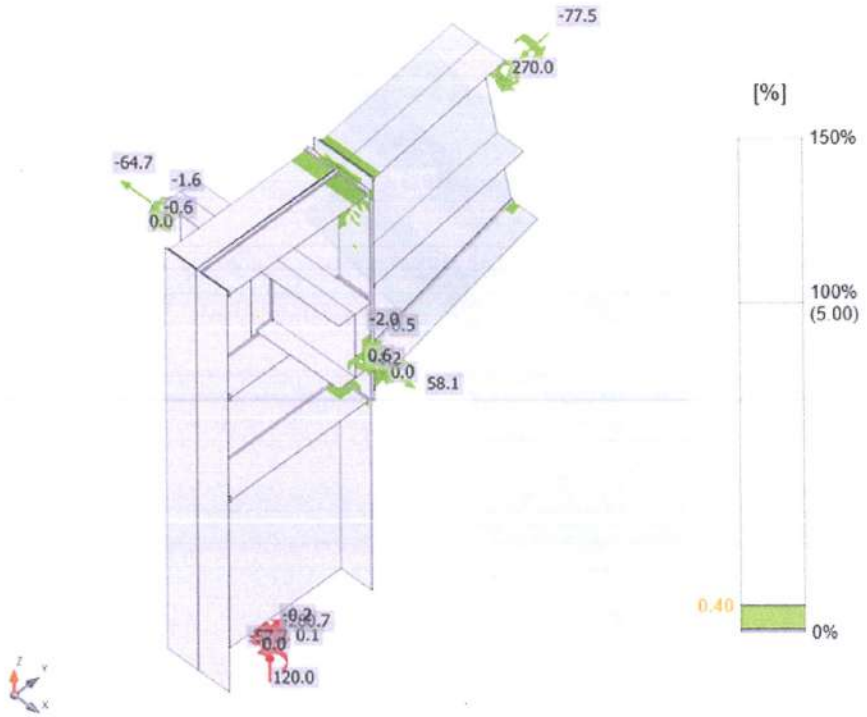
Material	f_y [MPa]	ε_{lim} [%]
S 235	235.0	5.0

Symbol explanation

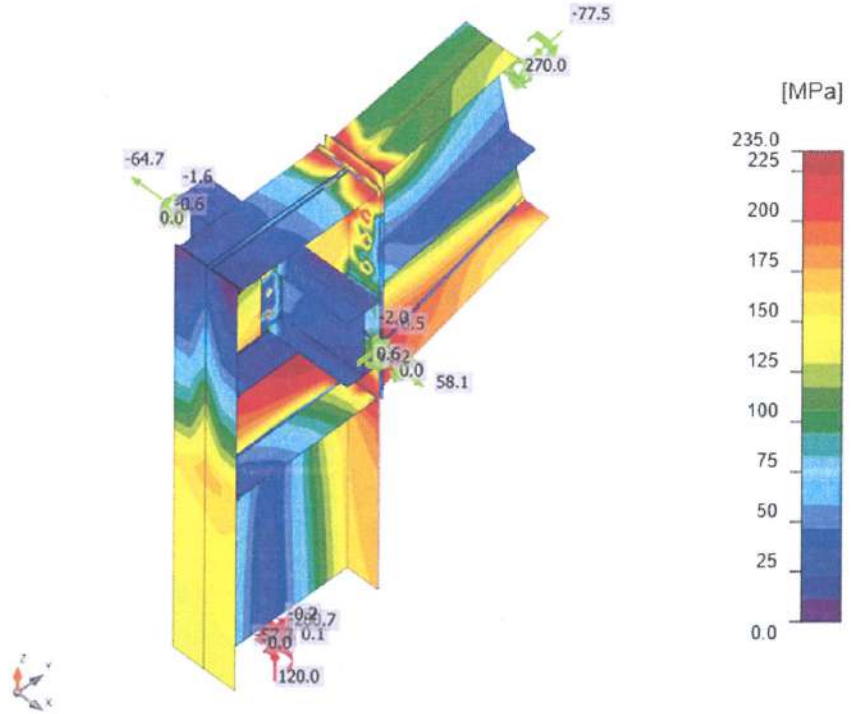
t_p	Plate thickness
σ_{Ed}	Equivalent stress
ε_{Pl}	Plastic strain
$\sigma_{c,Ed}$	Contact stress
f_y	Yield strength
ε_{lim}	Limit of plastic strain



Overall check, ULS-Set B (auto)5(1)



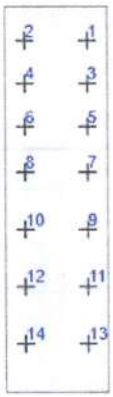
Strain check, ULS-Set B (auto)5(1)



Equivalent stress, ULS-Set B (auto)5(1)

Bolts

Shape	Item	Grade	Loads	$F_{t,Ed}$ [kN]	$F_{v,Ed}$ [kN]	$F_{b,Rd}$ [kN]	Ut_t [%]	Ut_s [%]	Ut_{ts} [%]	Detailing	Status
	B1	M20 8.8 - 1	ULS-Set B (auto)5(1)	117.0	5.0	128.4	82.9	5.3	64.5	OK	OK
	B2	M20 8.8 - 1	ULS-Set B (auto)5(1)	116.4	4.3	128.4	82.5	4.5	63.5	OK	OK
	B3	M20 8.8 - 1	ULS-Set B (auto)5(1)	68.6	6.4	181.4	48.6	6.8	41.5	OK	OK
	B4	M20 8.8 - 1	ULS-Set B (auto)5(1)	68.0	5.3	186.3	48.2	5.6	40.0	OK	OK

	B5	M20 8.8 - 1	ULS-Set B (auto)5(1)	48.0	5.8	186. 3	34. 0	6.2	30. 5	OK	OK
	B6	M20 8.8 - 1	ULS-Set B (auto)5(1)	48.5	4.8	186. 3	34. 4	5.1	29. 6	OK	OK
	B7	M20 8.8 - 1	ULS-Set B (auto)5(1)	32.9	4.4	182. 0	23. 3	4.7	21. 4	OK	OK
	B8	M20 8.8 - 1	ULS-Set B (auto)5(1)	34.7	3.5	202. 6	24. 6	3.7	21. 2	OK	OK
	B9	M20 8.8 - 1	ULS-Set B (auto)5(1)	11.2	1.8	148. 5	7.9	1.9	7.6	OK	OK
	B10	M20 8.8 - 1	ULS-Set B (auto)5(1)	14.9	1.0	143. 4	10. 6	1.1	8.6	OK	OK
	B11	M20 8.8 - 1	ULS-Set B (auto)5(1)	0.2	0.7	120. 5	0.2	0.8	0.9	OK	OK
	B12	M20 8.8 - 1	ULS-Set B (auto)5(1)	0.5	1.5	160. 7	0.4	1.6	1.9	OK	OK
	B13	M20 8.8 - 1	ULS-Set B (auto)5(1)	2.3	4.8	146. 2	1.6	5.1	6.3	OK	OK
	B14	M20 8.8 - 1	ULS-Set B (auto)5(1)	2.2	5.8	151. 4	1.6	6.1	7.3	OK	OK
	B15	M16 8.8 - 2	ULS-Set B (auto)5(1)	16.9	1.3	46.7	18. 7	2.9	15. 6	OK	OK
	B16	M16 8.8 - 2	ULS-Set B (auto)5(1)	19.7	1.1	108. 3	21. 8	2.0	17. 4	OK	OK
	B17	M16 8.8 - 2	ULS-Set B (auto)5(1)	10.3	1.3	108. 3	11. 4	2.5	10. 4	OK	OK
	B18	M16 8.8 - 2	ULS-Set B (auto)5(1)	10.1	0.7	51.1	11. 2	1.4	9.2	OK	OK
	B19	M16 8.8 - 2	ULS-Set B	12.1	1.9	108. 3	13. 4	3.3	12. 7	OK	OK

			(auto)5(1)								
	B20	M16 8.8 - 2	ULS-Set B (auto)5(1)	12.7	1.2	48.6	14.1	2.5	12.0	OK	OK

Design data

Grade	$F_{t,Rd}$ [kN]	$B_{p,Rd}$ [kN]	$F_{v,Rd}$ [kN]
M20 8.8 - 1	141.1	251.8	94.1
M16 8.8 - 2	90.4	137.8	60.3

Symbol explanation

$F_{t,Ed}$	Tension force
$F_{v,Ed}$	Resultant of bolt shear forces Vy and Vz in shear planes
$F_{b,Rd}$	Plate bearing resistance EN 1993-1-8 – Tab. 3.4
Ut_t	Utilization in tension
Ut_s	Utilization in shear
Ut_{ts}	Interaction of tension and shear EN 1993-1-8 – Tab. 3.4
$F_{t,Rd}$	Bolt tension resistance EN 1993-1-8 – Tab. 3.4
$B_{p,Rd}$	Punching shear resistance EN 1993-1-8 – Tab. 3.4
$F_{v,Rd}$	Bolt shear resistance EN 1993-1-8 – Tab. 3.4

Welds

Item	Edge	T_w [mm]	L [mm]	Loads	$\sigma_{w,Ed}$ [MPa]	ε_{Pl} [%]	$\sigma_\perp$ [MPa]	$\tau_\perp$ [MPa]	$\tau_\parallel$ [MPa]	Ut [%]	Ut_c [%]	Detailing	Status
EP1	B15-bfl 1	◢ 7.0 ◣	160	ULS-Set B (auto)5 (1)	82.4	0.0	48.3	31.6	-22.1	22.9	15.7	OK	OK
		◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	57.7	0.0	19.4	-31.4	-1.0	16.0	12.7	OK	OK
EP1	B15-tfl 1	◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	288.0	0.0	-40.4	16.7	-163.8	80.0	60.1	OK	OK
		◢ 7.0 ◣	160	ULS-Set B (auto)5 (1)	319.2	0.0	182.9	-80.9	-127.5	88.7	70.2	OK	OK
EP1	B15-w 1	◢ 5.0 ◣	322	ULS-Set B (auto)5 (1)	345.3	0.0	171.3	167.6	43.3	95.9	50.9	OK	OK
		◢ 5.0 ◣	322	ULS-Set B (auto)5 (1)	350.0	0.0	170.2	-173.8	-31.5	97.2	50.6	OK	OK

B13-bfl 1	WID1a	◢5.0◣	299	ULS-Set B (auto)5 (1)	354.6	1.2	-36.1	-42.3	199.2	98.5	82.2	OK	OK
		◢5.0◣	299	ULS-Set B (auto)5 (1)	354.5	1.2	-42.6	36.3	-199.9	98.5	84.3	OK	OK
B15-bfl 1	WID1a	◢5.0◣	470	ULS-Set B (auto)5 (1)	146.8	0.0	40.3	37.6	72.3	40.8	23.0	OK	OK
		◢5.0◣	470	ULS-Set B (auto)5 (1)	147.8	0.0	39.4	-42.0	-70.7	41.1	23.0	OK	OK
WID 1b	WID1a	◢5.0◣	529	ULS-Set B (auto)5 (1)	153.7	0.0	-39.4	-38.6	-76.6	42.7	31.5	OK	OK
		◢5.0◣	529	ULS-Set B (auto)5 (1)	166.1	0.0	-83.1	77.9	-28.8	46.1	28.4	OK	OK
EP2a	B37-bfl 1	◢4.5◣	100	ULS-Set B (auto)5 (1)	85.6	0.0	46.6	23.4	-34.2	23.8	15.3	OK	OK
		◢4.5◣	100	ULS-Set B (auto)5 (1)	100.0	0.0	-42.9	27.5	44.3	27.8	19.2	OK	OK
EP2a	B37-tfl 1	◢4.5◣	99	ULS-Set B (auto)5 (1)	86.6	0.0	-11.9	0.0	49.5	24.0	13.2	OK	OK
		◢4.5◣	100	ULS-Set B (auto)5 (1)	142.3	0.0	76.7	-38.4	57.6	39.5	23.8	OK	OK
EP2a	B37-w 1	◢4.0◣	190	ULS-Set B (auto)5 (1)	74.2	0.0	32.3	35.8	-14.4	20.6	12.7	OK	OK
		◢4.0◣	190	ULS-Set B (auto)5 (1)	80.2	0.0	44.2	-36.5	-12.6	22.3	12.8	OK	OK
EP2b	B36-bfl 1	◢4.5◣	100	ULS-Set B (auto)5 (1)	84.7	0.0	45.3	22.9	-34.3	23.5	15.9	OK	OK
		◢4.5◣	99	ULS-Set B (auto)5 (1)	50.6	0.0	-12.4	8.1	-27.1	14.0	9.6	OK	OK
EP2b	B36-tfl 1	◢4.5◣	99	ULS-Set B	66.9	0.0	-16.4	-11.5	35.6	18.6	11.6	OK	OK

				(auto)5 (1)									
		◢ 4.5 ◣	100	ULS-Set B (auto)5 (1)	105.9	0.0	56.7	-29.7	42.3	29.4	20.6	OK	OK
EP2b	B36-w1	◢ 4.0 ◣	190	ULS-Set B (auto)5 (1)	74.0	0.0	34.2	37.0	-8.2	20.5	12.6	OK	OK
		◢ 4.0 ◣	190	ULS-Set B (auto)5 (1)	73.4	0.0	35.7	-35.9	-9.1	20.4	12.2	OK	OK
B13-bfl 1	STIFF 1a	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	96.4	0.0	55.8	34.8	-29.3	26.8	21.7	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	50.3	0.0	16.6	-17.4	-21.2	14.0	11.3	OK	OK
B13-w 1	STIFF 1a	◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	58.3	0.0	8.4	27.6	-18.6	16.2	10.2	OK	OK
		◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	45.2	0.0	15.3	-19.1	-15.5	12.6	9.0	OK	OK
B13-tfl 1	STIFF 1a	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	24.2	0.0	-21.6	-4.7	-4.1	8.3	7.5	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	30.0	0.0	10.0	-12.2	10.9	8.3	8.0	OK	OK
B13-bfl 1	STIFF 1b	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	64.4	0.0	23.6	28.0	20.2	17.9	15.0	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	93.7	0.0	49.9	-45.8	1.1	26.0	22.5	OK	OK
B13-w 1	STIFF 1b	◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	27.8	0.0	-2.4	-1.6	15.9	7.7	7.6	OK	OK
		◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	51.2	0.0	4.9	-29.4	-1.0	14.2	9.7	OK	OK
B13-tfl 1	STIFF 1b	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	30.3	0.0	5.6	12.2	-12.1	8.4	8.1	OK	OK

		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	22.8	0.0	-22.3	2.6	-0.7	8.6	6.9	OK	OK
B13-bfl 1	STIFF 2a	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	276.2	0.0	-129.2	-136.3	35.9	76.7	60.9	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	285.8	0.0	-143.0	136.0	-43.7	79.4	63.5	OK	OK
B13-w 1	STIFF 2a	◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	81.8	0.0	3.0	-5.5	-46.9	22.7	18.2	OK	OK
		◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	79.4	0.0	-0.7	-7.8	45.2	22.1	17.0	OK	OK
B13-tfl 1	STIFF 2a	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	58.4	0.0	-31.9	-22.8	16.7	16.2	9.7	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	48.2	0.0	-11.3	20.2	-18.0	13.4	9.3	OK	OK
B13-bfl 1	STIFF 2b	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	235.1	0.0	-121.3	-112.6	28.7	65.3	55.6	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	230.5	0.0	-107.5	116.2	-19.0	64.0	52.5	OK	OK
B13-w 1	STIFF 2b	◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	77.4	0.0	0.6	8.2	-43.9	21.5	15.6	OK	OK
		◢ 4.5 ◣	420	ULS-Set B (auto)5 (1)	71.6	0.0	3.7	3.8	41.1	19.9	15.8	OK	OK
B13-tfl 1	STIFF 2b	◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	47.6	0.0	-10.8	-21.2	16.4	13.2	9.5	OK	OK
		◢ 4.5 ◣	90	ULS-Set B (auto)5 (1)	57.3	0.0	-31.9	21.2	-17.5	15.9	9.6	OK	OK
EP1	WID1 a	◢ 4.5	299	ULS-Set B (auto)5 (1)	354.1	0.9	1.2	8.6	-204.3	98.4	80.7	OK	OK
EP1	WID1 b	◢ 7.0 ◣	159	ULS-Set B	352.8	0.0	-133.9	-186.4	28.1	98.0	76.8	OK	OK

				(auto)5 (1)									
		◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	293.6	0.0	-167.7	136.8	-25.3	81.6	63.4	OK	OK
B13-bfl 1	STIFF 3a	◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	186.3	0.0	-19.5	106.1	14.1	51.8	30.1	OK	OK
		◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	353.1	0.2	214.9	-151.5	56.6	98.1	60.1	OK	OK
B13-w 1	STIFF 3a	◢ 4.0 ◣	420	ULS-Set B (auto)5 (1)	147.2	0.0	85.8	63.1	27.9	40.9	25.6	OK	OK
		◢ 4.0 ◣	420	ULS-Set B (auto)5 (1)	98.2	0.0	2.8	-54.2	16.8	27.3	19.4	OK	OK
B13-tfl 1	STIFF 3a	◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	15.0	0.0	-7.5	-5.3	-5.3	4.2	4.2	OK	OK
		◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	13.8	0.0	9.5	-5.6	1.3	3.8	3.8	OK	OK
B13-bfl 1	STIFF 3b	◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	352.9	0.1	216.1	150.2	-58.4	98.0	56.6	OK	OK
		◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	167.5	0.0	-7.0	-96.0	-11.2	46.5	27.3	OK	OK
B13-w 1	STIFF 3b	◢ 4.0 ◣	420	ULS-Set B (auto)5 (1)	89.9	0.0	5.5	48.1	-19.1	25.0	17.4	OK	OK
		◢ 4.0 ◣	420	ULS-Set B (auto)5 (1)	138.0	0.0	83.4	-56.5	-28.9	38.3	23.5	OK	OK
B13-tfl 1	STIFF 3b	◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	13.6	0.0	9.7	5.2	-1.8	3.8	3.8	OK	OK
		◢ 4.0 ◣	90	ULS-Set B (auto)5 (1)	11.4	0.0	-4.0	3.9	4.8	3.2	3.2	OK	OK

Design data

Material	f_u	β_w	$\sigma_{w,Rd}$	0.9 σ

	[MPa]	[-]	[MPa]	[MPa]
S 235	360.0	0.80	360.0	259.2

Symbol explanation

T_w	Throat thickness a
L	Length
$\sigma_{w,Ed}$	Equivalent stress
ε_{Pl}	Strain
$\sigma_\perp$	Perpendicular stress
$\tau_\perp$	Shear stress perpendicular to weld axis
$\tau_\parallel$	Shear stress parallel to weld axis
Ut	Utilization
Ut_c	Weld capacity estimation
◢	Fillet weld
f_u	Ultimate strength of weld
β_w	Correlation factor EN 1993-1-8 – Tab. 4.1
$\sigma_{w,Rd}$	Equivalent stress resistance
0.9 σ	Perpendicular stress resistance: 0.9*fu/γM2

Buckling

Buckling analysis was not calculated.

Code settings

Item	Value	Unit	Reference
Safety factor γ_{M0}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M1}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M2}	1.25	-	EN 1993-1-1 – 6.1, EN 1993-1-8 – Table 2.1
Safety factor γ_{M3}	1.25	-	EN 1993-1-8 – Table 2.1
Safety factor γ_C	1.50	-	EN 1992-1-1 – 2.4.2.4
Safety factor γ_{Inst}	1.20	-	EN 1992-4 – Table 4.1
Joint coefficient βj	0.67	-	EN 1993-1-8 – 6.2.5(7)
Effective area - influence of mesh size	0.10	-	
Friction coefficient - concrete	0.25	-	EN 1993-1-8
Friction coefficient in slip-resistance	0.30	-	EN 1993-1-8 – Table 3.7
Limit plastic strain	0.05	-	EN 1993-1-5
Detailing	Yes		
Distance between bolts [d0]	2.20	-	EN 1993-1-8 – Table 3.3
Distance between bolts and edge [d0]	1.20	-	EN 1993-1-8 – Table 3.3
Concrete breakout resistance check	Both		
Cracked concrete	Yes		EN 1992-4
Local deformation check	Yes		
Local deformation limit	0.03	-	CIDECT DG 1, 3 – 1.1
Geometrical nonlinearity (GMNA)	Yes		Analysis with large deformations for hollow section joints
Braced system	No		EN 1993-1-8 – 5.2.2.5

7.7. Imbinare grinda-grinda

Project data

Project name	
Project number	
Author	
Description	
Date	9/27/2025
Code	

Material

Steel	S 235
Concrete	C20/25, C25/30

Project item N18

Design

Name	N18
Description	
Analysis	Stress, strain/ loads in equilibrium

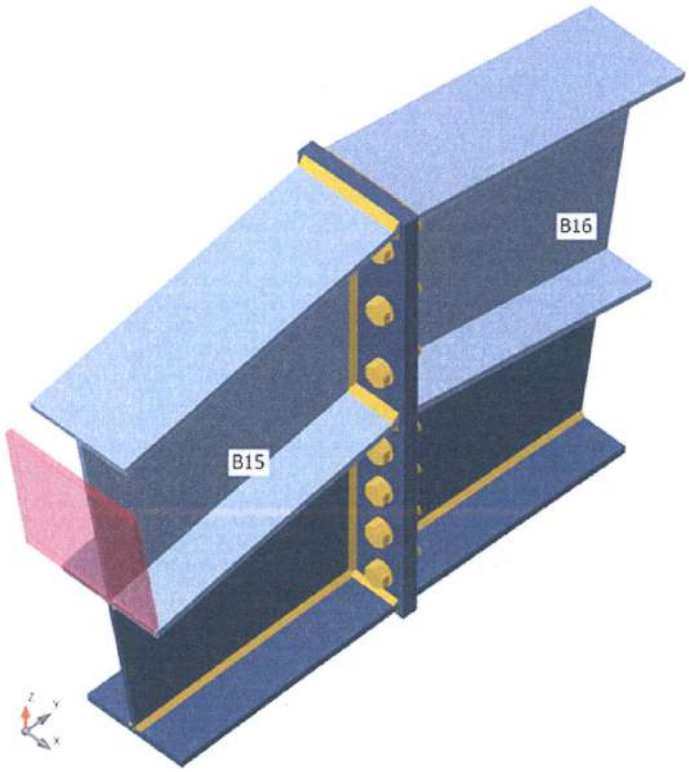
Members

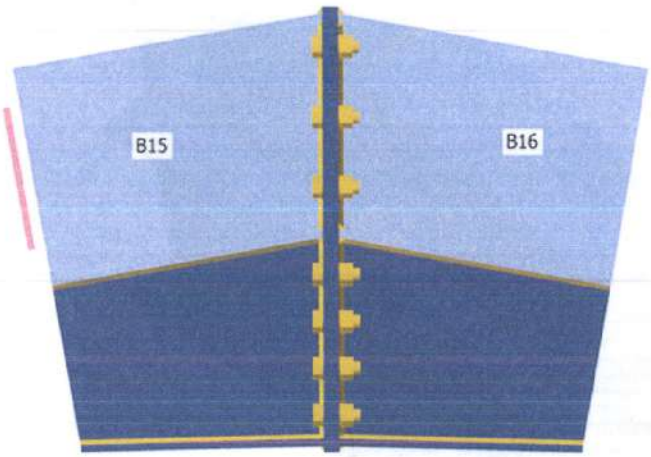
Geometry

Name	Cross-section	β – Direction [°]	γ - Pitch [°]	α - Rotation [°]	Offset ex [mm]	Offset ey [mm]	Offset ez [mm]
B15	30 - IPE330	90.0	10.0	0.0	0	0	0
B16	30 - IPE330	90.0	-10.0	0.0	0	0	0

Supports and forces

Name	Support	Forces in	X [mm]
B15 / begin	N-Vy-Vz-Mx-My-Mz	Position	0
B16 / end		Position	0


B16
B15



Cross-sections

Name	Material
30 - IPE330	S 235

Bolts

Name	Diameter [mm]	f_y [MPa]	f_u [MPa]	Gross area [mm²]
M20 8.8	20	640.0	800.0	314

Load effects (forces in equilibrium)

Name	Member	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
ULS-Set B (auto)5(1)	B15 / Begin	65.6	0.0	-11.6	0.0	144.7	-0.2
	B16 / End	-65.6	0.0	-11.6	0.0	-144.7	0.2
ULS-Set B (auto)100(2)	B15 / Begin	11.2	0.0	-2.0	0.0	25.4	0.0
	B16 / End	-11.2	0.0	-2.0	0.0	-25.4	0.0
ULS-Set B (auto)8(3)	B15 / Begin	61.7	0.0	-10.9	0.0	135.9	-0.2
	B16 / End	-61.7	0.0	-10.9	0.0	-135.9	0.2
ULS-Set B (auto)1(4)	B15 / Begin	15.1	0.0	-2.7	0.0	34.2	0.0

	B16 / End	-15.1	0.0	-2.7	0.0	-34.2	0.0

Unbalanced forces

Name	X [kN]	Y [kN]	Z [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
ULS-Set B (auto)5(1)	0.0	0.0	0.0	0.0	0.0	0.0
ULS-Set B (auto)100(2)	0.0	0.0	0.0	0.0	0.0	0.0
ULS-Set B (auto)8(3)	0.0	0.0	0.0	0.0	0.0	0.0
ULS-Set B (auto)1(4)	0.0	0.0	0.0	0.0	0.0	0.0

Check

Summary

Name	Value	Check status
Analysis	100.0%	OK
Plates	0.2 < 5.0%	OK
Bolts	77.8 < 100%	OK
Welds	98.1 < 100%	OK
Buckling	Not calculated	

Plates

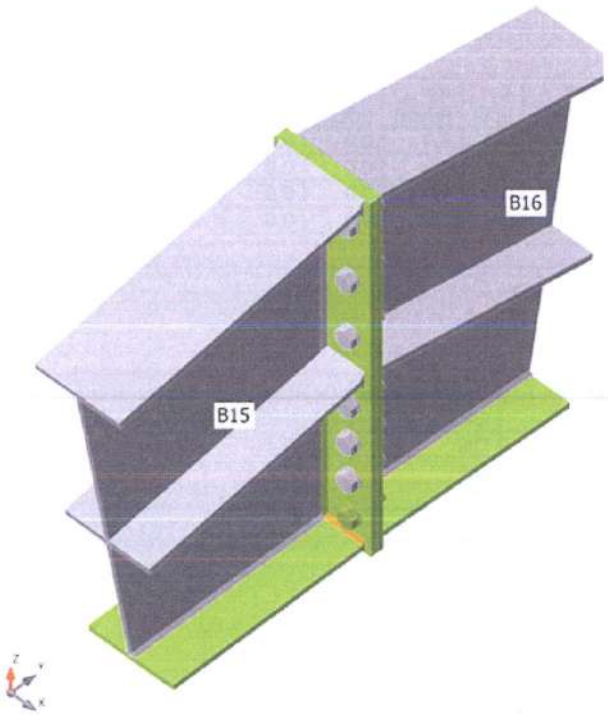
Name	t_p [mm]	Loads	σ_{Ed} [MPa]	ε_{Pl} [%]	$\sigma_{c,Ed}$ [MPa]	Status
B15-bfl 1	11.5	ULS-Set B (auto)5(1)	47.9	0.0	0.0	OK
B15-tfl 1	11.5	ULS-Set B (auto)5(1)	148.0	0.0	0.0	OK
B15-w 1	7.5	ULS-Set B (auto)5(1)	129.0	0.0	0.0	OK
B16-bfl 1	11.5	ULS-Set B (auto)5(1)	48.0	0.0	0.0	OK
B16-tfl 1	11.5	ULS-Set B (auto)5(1)	148.0	0.0	0.0	OK
B16-w 1	7.5	ULS-Set B (auto)5(1)	128.7	0.0	0.0	OK
PP1a	12.0	ULS-Set B (auto)5(1)	235.5	0.2	135.6	OK
PP1b	12.0	ULS-Set B (auto)5(1)	235.5	0.2	135.6	OK
WID1a	7.5	ULS-Set B (auto)5(1)	156.9	0.0	0.0	OK
WID1b	11.5	ULS-Set B (auto)5(1)	235.2	0.1	0.0	OK
WID2a	7.5	ULS-Set B (auto)5(1)	156.8	0.0	0.0	OK
WID2b	11.5	ULS-Set B (auto)5(1)	235.2	0.1	0.0	OK

Design data

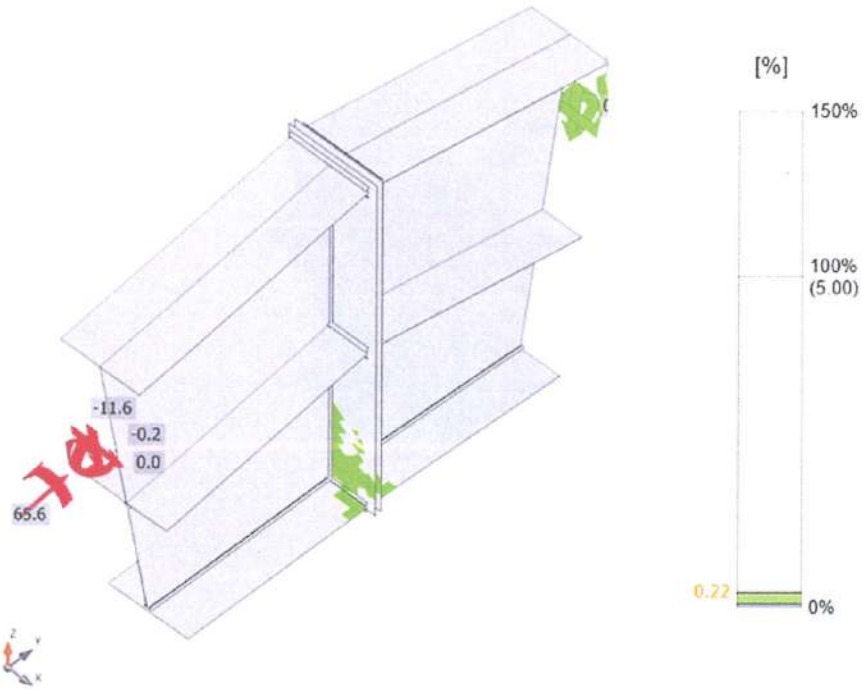
Material	f_y [MPa]	ε_{lim} [%]
S 235	235.0	5.0

Symbol explanation

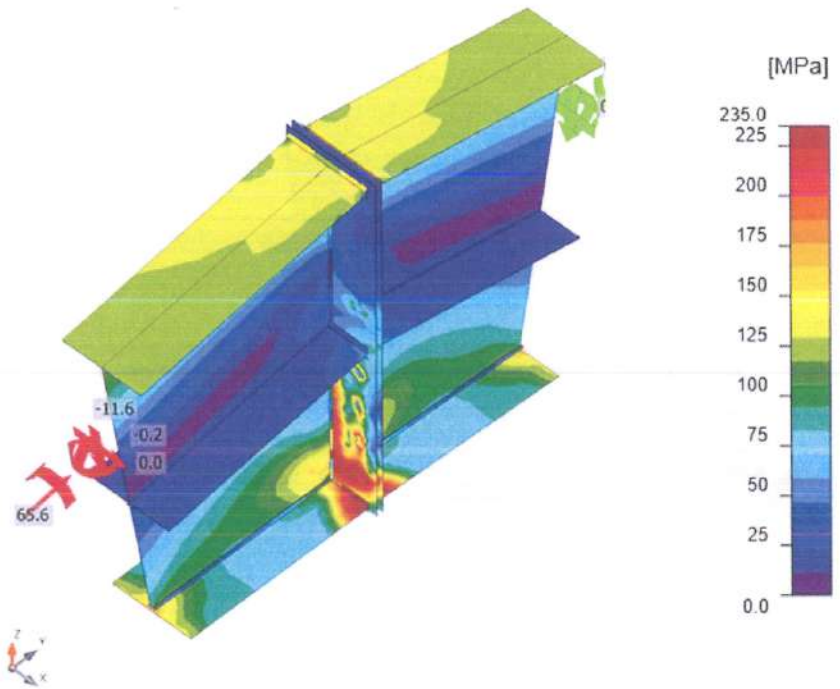
- t_p Plate thickness
- σ_{Ed} Equivalent stress
- ε_{Pl} Plastic strain
- $\sigma_{c,Ed}$ Contact stress
- f_y Yield strength
- ε_{lim} Limit of plastic strain



Overall check, ULS-Set B (auto)5(1)



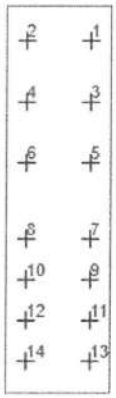
Strain check, ULS-Set B (auto)5(1)



Equivalent stress, ULS-Set B (auto)5(1)

Bolts

Shape	Item	Grade	Loads	$F_{t,Ed}$ [kN]	$F_{v,Ed}$ [kN]	$F_{b,Rd}$ [kN]	Ut_t [%]	Ut_s [%]	Ut_{ts} [%]	Detailing	Status
	B1	M20 8.8 - 1	ULS-Set B (auto)5(1)	0.8	0.0	91.6	0.6	0.0	0.4	OK	OK
	B2	M20 8.8 - 1	ULS-Set B (auto)5(1)	0.8	0.0	91.6	0.6	0.0	0.4	OK	OK
	B3	M20 8.8 - 1	ULS-Set B (auto)5(1)	0.2	0.0	91.6	0.1	0.0	0.1	OK	OK
	B4	M20 8.8 - 1	ULS-Set B (auto)5(1)	0.2	0.0	91.6	0.1	0.0	0.1	OK	OK



B5	M20 8.8 - 1	ULS-Set B (auto)5(1)	14.0	0.0	91.6	9.9	0.0	7.1	OK	OK
B6	M20 8.8 - 1	ULS-Set B (auto)5(1)	14.7	0.0	91.6	10.4	0.0	7.4	OK	OK
B7	M20 8.8 - 1	ULS-Set B (auto)5(1)	30.8	0.0	91.6	21.8	0.0	15.6	OK	OK
B8	M20 8.8 - 1	ULS-Set B (auto)5(1)	31.2	0.0	91.6	22.1	0.0	15.8	OK	OK
B9	M20 8.8 - 1	ULS-Set B (auto)5(1)	37.1	0.0	96.8	26.3	0.0	18.8	OK	OK
B10	M20 8.8 - 1	ULS-Set B (auto)5(1)	37.0	0.0	96.9	26.2	0.0	18.7	OK	OK
B11	M20 8.8 - 1	ULS-Set B (auto)5(1)	47.6	0.0	129.5	33.7	0.0	24.1	OK	OK
B12	M20 8.8 - 1	ULS-Set B (auto)5(1)	47.6	0.0	122.1	33.7	0.0	24.1	OK	OK
B13	M20 8.8 - 1	ULS-Set B (auto)5(1)	109.1	0.0	140.1	77.3	0.0	55.2	OK	OK
B14	M20 8.8 - 1	ULS-Set B (auto)5(1)	109.8	0.0	140.1	77.8	0.0	55.6	OK	OK

Design data

Grade	$F_{t,Rd}$ [kN]	$B_{p,Rd}$ [kN]	$F_{v,Rd}$ [kN]
M20 8.8 - 1	141.1	206.9	94.1

Symbol explanation

$F_{t,Ed}$	Tension force
$F_{v,Ed}$	Resultant of bolt shear forces Vy and Vz in shear planes
$F_{b,Rd}$	Plate bearing resistance EN 1993-1-8 – Tab. 3.4
Ut_t	Utilization in tension
Ut_s	Utilization in shear
Ut_{ts}	Interaction of tension and shear EN 1993-1-8 – Tab. 3.4
$F_{t,Rd}$	Bolt tension resistance EN 1993-1-8 – Tab. 3.4
$B_{p,Rd}$	Punching shear resistance EN 1993-1-8 – Tab. 3.4

$F_{v,Rd}$ Bolt shear resistance EN 1993-1-8 – Tab. 3.4

Welds

Item	Edge	T_w [mm]	L [mm]	Loads	$\sigma_{w,Ed}$ [MPa]	ε_{Pl} [%]	$\sigma_{\perp}$ [MPa]	$\tau_{\perp}$ [MPa]	$\tau_{\parallel}$ [MPa]	Ut [%]	Ut_c [%]	Detailing	Status
PP1 a	B15-bfl 1	◢ 7.0 ◣	160	ULS-Set B (auto)5 (1)	36.7	0.0	15.2	19.2	-2.2	10.2	8.7	OK	OK
		◢ 7.0 ◣	160	ULS-Set B (auto)5 (1)	49.8	0.0	28.3	-22.6	-6.8	13.8	11.4	OK	OK
PP1 a	B15-tfl 1	◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	152.6	0.0	-81.3	-73.5	-12.8	42.4	36.1	OK	OK
		◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	185.7	0.0	-76.0	97.6	6.9	51.6	42.1	OK	OK
PP1 a	B15-w 1	◢ 4.5 ◣	322	ULS-Set B (auto)5 (1)	145.6	0.0	-72.1	-71.8	-13.4	40.5	23.3	OK	OK
		◢ 4.5 ◣	322	ULS-Set B (auto)5 (1)	146.1	0.0	-71.9	72.2	13.2	40.6	23.3	OK	OK
PP1 b	B16-bfl 1	◢ 7.0 ◣	160	ULS-Set B (auto)5 (1)	36.7	0.0	15.1	19.2	2.2	10.2	7.4	OK	OK
		◢ 7.0 ◣	160	ULS-Set B (auto)5 (1)	49.8	0.0	28.3	-22.6	6.9	13.8	9.5	OK	OK
PP1 b	B16-tfl 1	◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	152.6	0.0	-81.3	-73.5	12.8	42.4	36.1	OK	OK
		◢ 7.0 ◣	159	ULS-Set B (auto)5 (1)	185.7	0.0	-76.0	97.6	-6.8	51.6	42.0	OK	OK
PP1 b	B16-w 1	◢ 4.5 ◣	322	ULS-Set B (auto)5 (1)	145.6	0.0	-72.1	-71.8	13.4	40.5	24.9	OK	OK
		◢ 4.5 ◣	322	ULS-Set B (auto)5 (1)	146.1	0.0	-71.9	72.2	-13.3	40.6	24.6	OK	OK

PP1 a	WID 1a	◢ 4.5 ◣	299	ULS-Set B (auto)5 (1)	321.6	0.0	161.2	159.7	-17.8	89.3	43.3	OK	OK
		◢ 4.5 ◣	299	ULS-Set B (auto)5 (1)	323.9	0.0	159.8	-161.5	19.5	90.0	43.9	OK	OK
B15-bfl 1	WID 1a	◢ 4.5 ◣	412	ULS-Set B (auto)5 (1)	33.8	0.0	10.2	11.6	-14.6	9.4	7.5	OK	OK
		◢ 4.5 ◣	411	ULS-Set B (auto)5 (1)	31.0	0.0	10.7	-9.3	14.0	8.6	7.5	OK	OK
WID 1b	WID 1a	◢ 4.5 ◣	363	ULS-Set B (auto)5 (1)	116.7	0.0	-36.6	-37.1	-52.1	32.4	24.5	OK	OK
		◢ 4.5 ◣	363	ULS-Set B (auto)5 (1)	116.9	0.0	-37.6	37.2	51.9	32.5	24.7	OK	OK
PP1 a	WID 1b	◢ 4.5 ◣	159	ULS-Set B (auto)5 (1)	353.1	0.2	148.7	127.7	-133.7	98.1	76.9	OK	OK
		◢ 4.5 ◣	159	ULS-Set B (auto)5 (1)	271.4	0.0	-75.3	132.2	-72.0	75.4	42.5	OK	OK
PP1 b	WID 2a	◢ 4.5 ◣	299	ULS-Set B (auto)5 (1)	323.9	0.0	159.9	161.5	-19.6	90.0	43.9	OK	OK
		◢ 4.5 ◣	299	ULS-Set B (auto)5 (1)	321.6	0.0	161.3	-159.7	17.7	89.3	43.3	OK	OK
B16-bfl 1	WID 2a	◢ 4.5 ◣	411	ULS-Set B (auto)5 (1)	30.9	0.0	10.7	9.3	-13.9	8.6	7.5	OK	OK
		◢ 4.5 ◣	412	ULS-Set B (auto)5 (1)	33.8	0.0	10.2	-11.6	14.5	9.4	7.5	OK	OK
WID 2b	WID 2a	◢ 4.5 ◣	363	ULS-Set B (auto)5 (1)	119.6	0.0	-39.9	-39.4	-51.8	33.2	24.9	OK	OK
		◢ 4.5 ◣	363	ULS-Set B (auto)5 (1)	119.5	0.0	-38.8	39.3	52.1	33.2	24.7	OK	OK
PP1 b	WID 2b	◢ 4.5 ◣	159	ULS-Set B	353.1	0.2	148.6	127.7	133.7	98.1	79.0	OK	OK

				(auto)5 (1)									
		◢ 4.5 ◣	159	ULS-Set B (auto)5 (1)	271.2	0.0	-75.4	132.1	72.0	75.3	43.4	OK	OK

Design data

Material	f_u [MPa]	β_w [-]	$\sigma_{w,Rd}$ [MPa]	0.9 σ [MPa]
S 235	360.0	0.80	360.0	259.2

Symbol explanation

T_w	Throat thickness a
L	Length
$\sigma_{w,Ed}$	Equivalent stress
ε_{Pl}	Strain
$\sigma_\perp$	Perpendicular stress
$\tau_\perp$	Shear stress perpendicular to weld axis
$\tau_\parallel$	Shear stress parallel to weld axis
Ut	Utilization
Ut_c	Weld capacity estimation
◢	Fillet weld
f_u	Ultimate strength of weld
β_w	Correlation factor EN 1993-1-8 – Tab. 4.1
$\sigma_{w,Rd}$	Equivalent stress resistance
0.9 σ	Perpendicular stress resistance: 0.9*fu/γM2

Buckling

Buckling analysis was not calculated.

Code settings

Item	Value	Unit	Reference
Safety factor γ_{M0}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M1}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M2}	1.25	-	EN 1993-1-1 – 6.1, EN 1993-1-8 – Table 2.1
Safety factor γ_{M3}	1.25	-	EN 1993-1-8 – Table 2.1
Safety factor γ_C	1.50	-	EN 1992-1-1 – 2.4.2.4
Safety factor γ_{Inst}	1.20	-	EN 1992-4 – Table 4.1
Joint coefficient βj	0.67	-	EN 1993-1-8 – 6.2.5(7)
Effective area - influence of mesh size	0.10	-	
Friction coefficient - concrete	0.25	-	EN 1993-1-8
Friction coefficient in slip-resistance	0.30	-	EN 1993-1-8 – Table 3.7
Limit plastic strain	0.05	-	EN 1993-1-5
Detailing	Yes		
Distance between bolts [d0]	2.20	-	EN 1993-1-8 – Table 3.3

Distance between bolts and edge [d0]	1.20	-	EN 1993-1-8 – Table 3.3
Concrete breakout resistance check	Both		
Cracked concrete	Yes		EN 1992-4
Local deformation check	Yes		
Local deformation limit	0.03	-	CIDECT DG 1, 3 – 1.1
Geometrical nonlinearity (GMNA)	Yes		Analysis with large deformations for hollow section joints
Braced system	No		EN 1993-1-8 – 5.2.2.5

7.8. Contravantuiri acoperis

Project data

Project name	
Project number	
Author	
Description	
Date	9/27/2025
Code	

Material

Steel	S 235

Project item Con N104

Design

Name	Con N104
Description	
Analysis	Stress, strain/ loads in equilibrium

Members

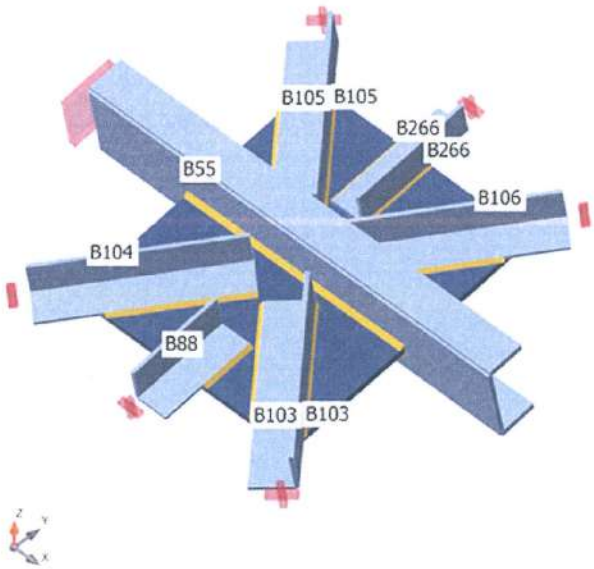
Geometry

Name	Cross-section	β – Direction [°]	γ - Pitch [°]	α - Rotation [°]	Offset ex [mm]	Offset ey [mm]	Offset ez [mm]
B55	1 - UPN120(U120)	0.0	0.0	10.6	0	0	0
B88	2 - L50X5	90.0	10.0	90.0	0	0	0
B103	3 - L60X6	131.2	7.6	-6.6	0	0	0
B104	2 - L50X5	48.8	7.6	96.6	0	0	0
B105	3 - L60X6	131.2	7.6	-6.6	0	0	0
B106	2 - L50X5	48.8	7.6	96.6	0	0	0
B266	2 - L50X5	90.0	10.0	0.0	0	0	0

Supports and forces

Name	Support	Forces in	X [mm]
B55 / begin	N-Vy-Vz-Mx-My-Mz	Position	0
B55 / end		Position	0
B88 / begin	Mx-My-Mz	Position	0
B103 / begin	Mx-My-Mz	Position	0

B104 / begin	Mx-My-Mz	Position	0
B105 / end	Mx-My-Mz	Position	0
B106 / end	Mx-My-Mz	Position	0
B266 / end	Mx-My-Mz	Position	0



Cross-sections

Name	Material
1 - UPN120(U120)	S 235
2 - L50X5	S 235
3 - L60X6	S 235

Load effects (forces in equilibrium)

Name	Member	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
NC_ULS-Set(1)	B55 / Begin	-0.1	-0.1	-0.2	0.0	1.0	0.0
	B55 / End	0.5	-0.2	0.5	0.0	-1.0	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-27.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	28.0	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(2)	B55 / Begin	-0.1	-0.1	-0.1	0.0	0.7	0.0
	B55 / End	0.3	-0.2	0.4	0.0	-0.7	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-20.4	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	20.8	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(3)	B55 / Begin	-0.4	-0.5	-1.1	0.0	3.3	0.2
	B55 / End	1.6	-0.8	1.5	0.0	-3.3	-0.2
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-89.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	91.4	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(4)	B55 / Begin	-0.5	-0.7	-1.6	0.0	4.4	0.2
	B55 / End	2.2	-1.1	1.9	0.0	-4.4	-0.2
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-118.8	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	121.3	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(5)	B55 / Begin	-0.2	-0.3	-0.6	0.0	2.1	0.1
	B55 / End	1.0	-0.5	1.0	0.0	-2.1	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-56.6	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	57.7	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(6)	B55 / Begin	-0.4	-0.5	-1.1	0.0	3.0	0.1
	B55 / End	1.5	-0.8	1.4	0.0	-3.0	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-82.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	84.3	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(7)	B55 / Begin	-0.5	-0.7	-1.5	0.0	4.1	0.2
	B55 / End	2.1	-1.1	1.8	0.0	-4.1	-0.2
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-111.7	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	114.1	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(8)	B55 / Begin	-0.2	-0.3	-0.6	0.0	1.8	0.1
	B55 / End	0.9	-0.4	0.8	0.0	-1.8	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-49.4	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	50.5	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(9)	B55 / Begin	1.6	-0.3	-1.6	0.0	3.7	0.1
	B55 / End	-1.0	-0.3	2.0	0.0	-3.7	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-33.7	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	34.6	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(10)	B55 / Begin	-1.3	-0.2	-1.2	0.0	2.8	0.1
	B55 / End	1.8	-0.3	1.6	0.0	-2.8	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-16.1	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	16.8	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(11)	B55 / Begin	1.6	-0.3	-1.6	0.0	3.7	0.1
	B55 / End	-1.0	-0.3	2.0	0.0	-3.7	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-33.7	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	34.6	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(12)	B55 / Begin	-1.3	-0.2	-1.2	0.0	2.8	0.1
	B55 / End	1.8	-0.3	1.6	0.0	-2.8	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-16.1	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	16.8	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(13)	B55 / Begin	7.2	-0.3	-0.6	0.0	1.9	0.1
	B55 / End	-6.6	-0.3	1.0	0.0	-1.9	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-36.3	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	37.1	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.1	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(14)	B55 / Begin	4.1	-0.3	-0.2	0.0	1.0	0.1
	B55 / End	-3.6	-0.2	0.6	0.0	-1.0	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-19.4	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	20.2	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(15)	B55 / Begin	6.9	-0.3	-0.8	0.0	2.3	0.1
	B55 / End	-6.3	-0.4	1.1	0.0	-2.3	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-57.2	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	58.1	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.1	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(16)	B55 / Begin	3.9	-0.2	-0.4	0.0	1.4	0.1
	B55 / End	-3.4	-0.3	0.7	0.0	-1.4	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-40.3	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	41.1	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(17)	B55 / Begin	-3.2	0.0	-0.8	0.0	2.2	0.0
	B55 / End	3.4	-0.3	1.2	0.0	-2.2	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-81.0	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	81.4	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(18)	B55 / Begin	-6.3	0.1	-0.5	0.0	1.3	0.0
	B55 / End	6.4	-0.2	0.8	0.0	-1.3	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-64.6	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	64.8	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(19)	B55 / Begin	-3.2	0.0	-0.8	0.0	2.2	0.0
	B55 / End	3.4	-0.3	1.2	0.0	-2.2	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-81.0	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	81.4	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(20)	B55 / Begin	-6.3	0.1	-0.5	0.0	1.3	0.0
	B55 / End	6.4	-0.2	0.8	0.0	-1.3	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-64.6	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	64.8	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(21)	B55 / Begin	6.3	-0.3	-0.1	0.0	1.2	0.1
	B55 / End	-5.8	-0.3	0.5	0.0	-1.2	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-51.4	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	52.2	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(22)	B55 / Begin	3.2	-0.2	0.2	0.0	0.3	0.1
	B55 / End	-2.7	-0.2	0.1	0.0	-0.3	-0.1
	B88 / Begin	-0.2	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-34.2	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	35.1	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(23)	B55 / Begin	6.1	-0.3	-0.5	0.0	2.2	0.1
	B55 / End	-5.5	-0.4	0.9	0.0	-2.2	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-67.4	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	68.3	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(24)	B55 / Begin	3.1	-0.2	-0.2	0.0	1.4	0.1
	B55 / End	-2.6	-0.3	0.5	0.0	-1.4	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-50.1	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	50.8	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(25)	B55 / Begin	1.7	-0.3	-1.6	0.0	3.5	0.1
	B55 / End	-1.2	-0.3	1.8	0.0	-3.5	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-26.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	27.3	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(26)	B55 / Begin	-1.1	-0.2	-1.2	0.0	2.6	0.1
	B55 / End	2.5	-0.2	1.5	0.0	-2.6	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-8.7	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	-0.8	0.0	0.0	0.0	0.0	0.0
	B105 / End	10.0	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(27)	B55 / Begin	1.7	-0.3	-1.6	0.0	3.5	0.1
	B55 / End	-1.2	-0.3	1.8	0.0	-3.5	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-26.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	27.3	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(28)	B55 / Begin	-1.1	-0.2	-1.2	0.0	2.6	0.1
	B55 / End	2.5	-0.2	1.5	0.0	-2.6	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-8.7	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	-0.8	0.0	0.0	0.0	0.0	0.0
	B105 / End	10.0	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(29)	B55 / Begin	7.2	-0.3	-0.6	0.0	1.7	0.1
	B55 / End	-6.8	-0.3	0.8	0.0	-1.7	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-29.6	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	30.2	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.2	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(30)	B55 / Begin	4.2	-0.2	-0.2	0.0	0.8	0.1
	B55 / End	-3.7	-0.2	0.5	0.0	-0.8	-0.1
	B88 / Begin	-0.1	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-12.3	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	13.0	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(31)	B55 / Begin	7.0	-0.3	-0.7	0.0	2.0	0.1
	B55 / End	-6.6	-0.3	1.0	0.0	-2.0	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-50.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	51.1	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.1	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(32)	B55 / Begin	4.0	-0.2	-0.4	0.0	1.1	0.1
	B55 / End	-3.5	-0.2	0.6	0.0	-1.1	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-33.3	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	33.9	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(33)	B55 / Begin	-3.2	0.1	-0.8	0.0	1.9	0.0
	B55 / End	3.3	-0.2	1.0	0.0	-1.9	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-73.9	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	74.1	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(34)	B55 / Begin	-6.4	0.1	-0.4	0.0	1.0	0.0
	B55 / End	6.4	-0.1	0.7	0.0	-1.0	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-57.9	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	57.9	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(35)	B55 / Begin	-3.2	0.1	-0.8	0.0	1.9	0.0
	B55 / End	3.3	-0.2	1.0	0.0	-1.9	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-73.9	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	74.1	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(36)	B55 / Begin	-6.4	0.1	-0.4	0.0	1.0	0.0
	B55 / End	6.4	-0.1	0.7	0.0	-1.0	0.0
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-57.9	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	57.9	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(37)	B55 / Begin	6.4	-0.2	-0.1	0.0	1.0	0.1
	B55 / End	-6.0	-0.3	0.3	0.0	-1.0	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-45.0	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	45.6	0.0	0.0	0.0	0.0	0.0

	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.1	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(38)	B55 / Begin	3.3	-0.2	0.3	0.0	0.1	0.1
	B55 / End	-2.8	-0.2	0.0	0.0	-0.1	-0.1
	B88 / Begin	-0.2	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-27.8	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	28.5	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(39)	B55 / Begin	6.2	-0.2	-0.5	0.0	2.0	0.1
	B55 / End	-5.8	-0.3	0.7	0.0	-2.0	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-60.9	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	61.5	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.1	0.0	0.0	0.0	0.0	0.0
NC_ULS-Set(40)	B55 / Begin	3.1	-0.2	-0.1	0.0	1.1	0.1
	B55 / End	-2.7	-0.2	0.4	0.0	-1.1	-0.1
	B88 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B103 / Begin	-43.5	0.0	0.0	0.0	0.0	0.0
	B104 / Begin	0.0	0.0	0.0	0.0	0.0	0.0
	B105 / End	44.1	0.0	0.0	0.0	0.0	0.0
	B106 / End	0.0	0.0	0.0	0.0	0.0	0.0
	B266 / End	0.0	0.0	0.0	0.0	0.0	0.0

Unbalanced forces

Name	X [kN]	Y [kN]	Z [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
NC_ULS-Set(1)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(2)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(3)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(4)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(5)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(6)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(7)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(8)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(9)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(10)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(11)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(12)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(13)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(14)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(15)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(16)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(17)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(18)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(19)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(20)	0.0	0.0	0.3	0.0	0.0	0.0

NC_ULS-Set(21)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(22)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(23)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(24)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(25)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(26)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(27)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(28)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(29)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(30)	0.0	0.0	0.2	0.0	0.0	0.0
NC_ULS-Set(31)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(32)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(33)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(34)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(35)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(36)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(37)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(38)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(39)	0.0	0.0	0.3	0.0	0.0	0.0
NC_ULS-Set(40)	0.0	0.0	0.3	0.0	0.0	0.0

Check

Summary

Name	Value	Check status
Analysis	100.0%	OK
Plates	0.4 < 5.0%	OK
Welds	98.8 < 100%	OK
Buckling	35.03	

Plates

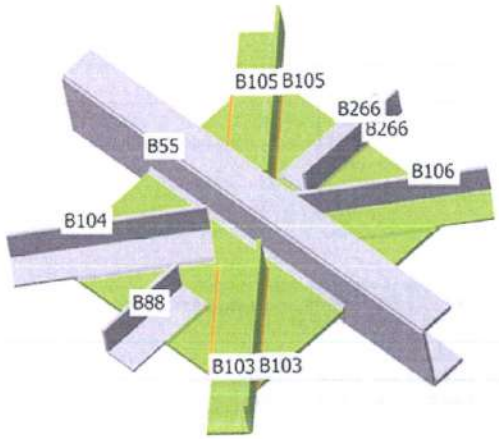
Name	t_p [mm]	Loads	σ_{Ed} [MPa]	ε_{Pl} [%]	$\sigma_{c,Ed}$ [MPa]	Status
B55-bfl 1	9.0	NC_ULS-Set(4)	87.3	0.0	0.0	OK
B55-tfl 1	9.0	NC_ULS-Set(4)	104.1	0.0	0.0	OK
B55-w 1	7.0	NC_ULS-Set(4)	149.5	0.0	0.0	OK
B88-bfl 1	5.0	NC_ULS-Set(4)	113.2	0.0	0.0	OK
B88-w 1	5.0	NC_ULS-Set(4)	194.6	0.0	0.0	OK
B103-bfl 1	6.0	NC_ULS-Set(4)	235.9	0.4	0.0	OK
B103-w 1	6.0	NC_ULS-Set(4)	235.2	0.1	0.0	OK
B104-bfl 1	5.0	NC_ULS-Set(4)	117.8	0.0	0.0	OK
B104-w 1	5.0	NC_ULS-Set(4)	201.3	0.0	0.0	OK
B105-bfl 1	6.0	NC_ULS-Set(4)	235.9	0.4	0.0	OK
B105-w 1	6.0	NC_ULS-Set(4)	235.6	0.3	0.0	OK
B106-bfl 1	5.0	NC_ULS-Set(4)	73.3	0.0	0.0	OK
B106-w 1	5.0	NC_ULS-Set(4)	207.1	0.0	0.0	OK
B266-bfl 1	5.0	NC_ULS-Set(4)	213.1	0.0	0.0	OK
B266-w 1	5.0	NC_ULS-Set(4)	110.3	0.0	0.0	OK
GUSS1	10.0	NC_ULS-Set(4)	235.1	0.0	0.0	OK
GUSS4	10.0	NC_ULS-Set(4)	235.0	0.0	0.0	OK

Design data

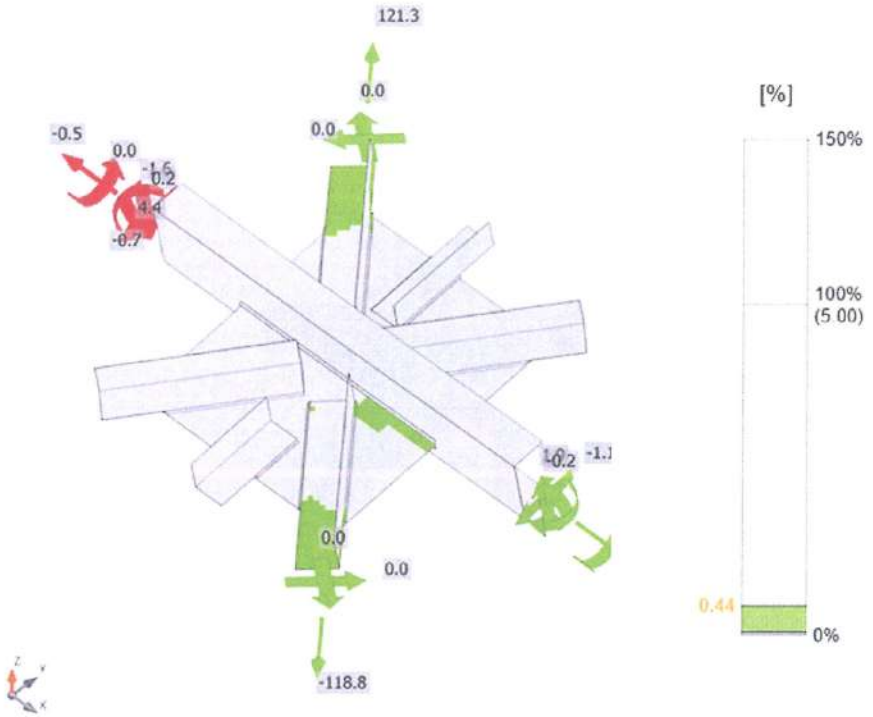
Material	f_y [MPa]	ε_{lim} [%]
S 235	235.0	5.0

Symbol explanation

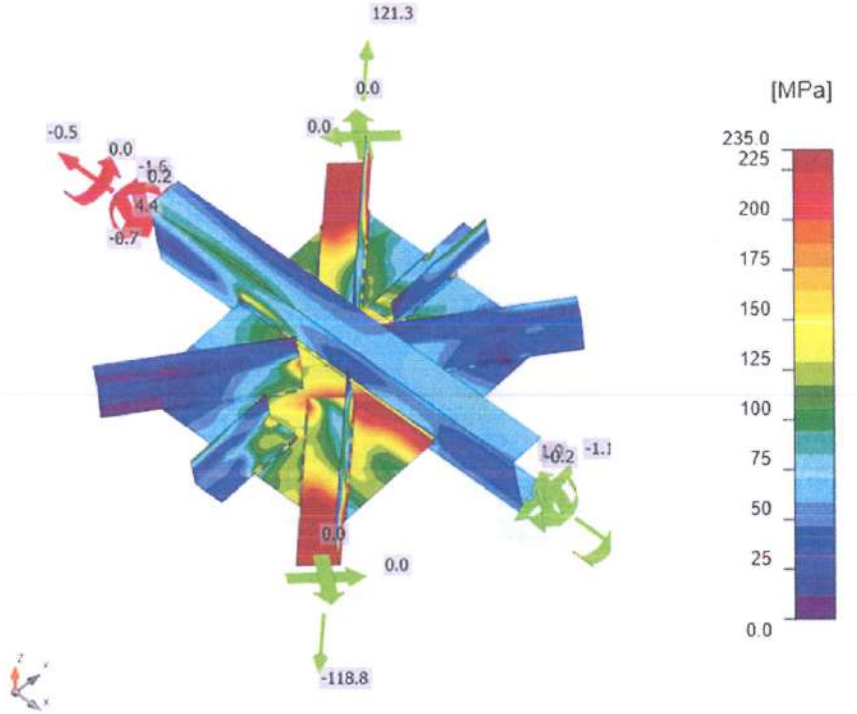
t_p	Plate thickness
σ_{Ed}	Equivalent stress
ε_{Pl}	Plastic strain
$\sigma_{c,Ed}$	Contact stress
f_y	Yield strength
ε_{lim}	Limit of plastic strain



Overall check, NC_ULS-Set(4)



Strain check, NC_ULS-Set(4)



Equivalent stress, NC_ULS-Set(4)

Welds

Item	Edge	T_w [mm]	L [mm]	Loads	$\sigma_{w,Ed}$ [MPa]	ε_{Pl} [%]	$\sigma_{\perp}$ [MPa]	$\tau_{\perp}$ [MPa]	$\tau_{\parallel}$ [MPa]	Ut [%]	Ut_c [%]	Detailing	Status
B55-w 1	GUS S1	◢ 4.5 ◣	347	NC_ULS-Set(4)	87.1	0.0	-44.4	-38.5	-19.7	24.2	14.6	OK	OK
		◢ 4.5 ◣	347	NC_ULS-Set(4)	175.8	0.0	58.8	-62.0	-72.8	48.8	30.9	OK	OK
GUS S1	B88-w 1	◢ 3.5	75	NC_ULS-Set(4)	261.1	0.0	-115.4	-71.3	114.9	72.5	52.7	OK	OK
GUS S1	B88-w 1	◢ 3.5	75	NC_ULS-Set(4)	328.1	0.0	5.6	183.4	-47.4	91.1	54.0	OK	OK
GUS S1	B104-w 1	◢ 3.5	175	NC_ULS-Set(4)	148.2	0.0	-33.8	7.0	83.0	41.2	24.9	OK	OK

GUS S1	B104 -w 1	◢ 3.5	196	NC_ULS-Set(4)	329.4	0.0	15.6	171.9	-80.8	91.5	45.4	OK	OK
GUS S1	B103 -bfl 1	◢ 4.0	168	NC_ULS-Set(4)	352.8	0.0	157.4	-44.8	-176.7	98.0	68.3	OK	OK
GUS S1	B103 -bfl 1	◢ 4.0	191	NC_ULS-Set(4)	355.5	1.9	146.7	155.1	104.4	98.8	88.8	OK	OK
B55-w 1	GUS S4	◢ 4.5 ◣	348	NC_ULS-Set(4)	179.8	0.0	89.8	78.7	43.5	49.9	39.1	OK	OK
		◢ 4.5 ◣	348	NC_ULS-Set(4)	87.0	0.0	-37.7	25.4	-37.5	24.2	16.1	OK	OK
GUS S4	B266 -bfl 1	◢ 3.5	109	NC_ULS-Set(4)	290.2	0.0	88.6	-156.4	-31.7	80.6	51.8	OK	OK
GUS S4	B266 -bfl 1	◢ 3.5	109	NC_ULS-Set(4)	185.9	0.0	-99.6	51.8	-74.4	51.7	38.9	OK	OK
GUS S4	B106 -w 1	◢ 3.5	194	NC_ULS-Set(4)	151.9	0.0	72.7	34.7	68.7	42.2	24.5	OK	OK
GUS S4	B106 -w 1	◢ 3.5	180	NC_ULS-Set(4)	244.7	0.0	129.9	110.6	45.9	68.0	37.1	OK	OK
GUS S4	B105 -bfl 1	◢ 4.0	187	NC_ULS-Set(4)	354.5	1.2	127.2	162.6	-100.3	98.5	87.3	OK	OK
GUS S4	B105 -bfl 1	◢ 4.0	165	NC_ULS-Set(4)	352.9	0.1	181.1	-73.0	158.9	98.0	72.1	OK	OK

Design data

Material	f_u [MPa]	β_w [-]	$\sigma_{w,Rd}$ [MPa]	0.9 σ [MPa]
S 235	360.0	0.80	360.0	259.2

Symbol explanation

T_w	Throat thickness a
L	Length
$\sigma_{w,Ed}$	Equivalent stress
ε_{Pl}	Strain
$\sigma_\perp$	Perpendicular stress
$\tau_\perp$	Shear stress perpendicular to weld axis
$\tau_\parallel$	Shear stress parallel to weld axis
Ut	Utilization
Ut_c	Weld capacity estimation
◢	Fillet weld
f_u	Ultimate strength of weld
β_w	Correlation factor EN 1993-1-8 – Tab. 4.1
$\sigma_{w,Rd}$	Equivalent stress resistance
0.9 σ	Perpendicular stress resistance: 0.9*fu/γM2

Buckling

Loads	Shape	Factor [-]
NC_ULS-Set(1)	1	152.74
	2	174.43
	3	208.57
	4	220.34
	5	222.35
	6	239.08
NC_ULS-Set(2)	1	206.20
	2	235.49
	3	281.57
	4	297.46
	5	300.18
	6	322.76
NC_ULS-Set(3)	1	46.53
	2	53.14
	3	64.58
	4	67.58
	5	69.89
	6	74.04
NC_ULS-Set(4)	1	35.03
	2	40.01
	3	48.72
	4	50.80
	5	52.84
	6	55.86
NC_ULS-Set(5)	1	73.79
	2	84.26
	3	102.02
	4	107.18
	5	109.76
	6	116.95
NC_ULS-Set(6)	1	50.44
	2	57.60
	3	70.12
	4	73.15
	5	76.01
	6	80.39
NC_ULS-Set(7)	1	37.24
	2	42.53
	3	51.85
	4	53.99
	5	56.34
	6	59.45
NC_ULS-Set(8)	1	84.35
	2	96.32

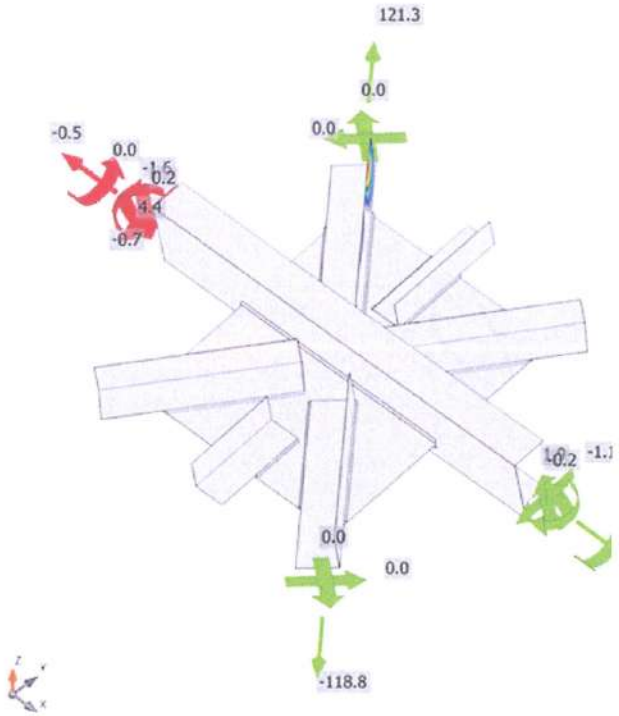
	3	116.91
	4	122.40
	5	126.21
	6	134.03
NC_ULS-Set(9)	1	85.87
	2	88.39
	3	88.52
	4	90.69
	5	92.51
	6	99.22
NC_ULS-Set(10)	1	116.92
	2	119.56
	3	120.67
	4	125.01
	5	135.51
	6	137.14
NC_ULS-Set(11)	1	85.87
	2	88.39
	3	88.52
	4	90.69
	5	92.51
	6	99.22
NC_ULS-Set(12)	1	116.92
	2	119.56
	3	120.67
	4	125.01
	5	135.51
	6	137.14
NC_ULS-Set(13)	1	105.81
	2	120.77
	3	147.20
	4	152.13
	5	152.85
	6	158.34
NC_ULS-Set(14)	1	195.14
	2	222.73
	3	276.15
	4	280.69
	5	287.02
	6	292.17
NC_ULS-Set(15)	1	71.80
	2	81.98
	3	100.30
	4	107.15
	5	111.79
	6	115.00
NC_ULS-Set(16)	1	104.24
	2	119.05

	3	143.40
	4	151.18
	5	151.29
	6	164.42
NC_ULS-Set(17)	1	54.55
	2	62.30
	3	72.35
	4	72.96
	5	74.73
	6	82.45
NC_ULS-Set(18)	1	70.94
	2	81.03
	3	86.13
	4	92.65
	5	93.03
	6	98.22
NC_ULS-Set(19)	1	54.55
	2	62.30
	3	72.35
	4	72.96
	5	74.73
	6	82.45
NC_ULS-Set(20)	1	70.94
	2	81.03
	3	86.13
	4	92.65
	5	93.03
	6	98.22
NC_ULS-Set(21)	1	86.53
	2	98.83
	3	111.36
	4	116.17
	5	116.29
	6	126.93
NC_ULS-Set(22)	1	138.73
	2	150.63
	3	158.44
	4	170.13
	5	171.83
	6	178.49
NC_ULS-Set(23)	1	63.25
	2	72.23
	3	87.05
	4	89.66
	5	91.42
	6	99.83
NC_ULS-Set(24)	1	87.71
	2	100.17

	3	116.86
	4	118.50
	5	119.44
	6	133.16
NC_ULS-Set(25)	1	91.91
	2	94.08
	3	94.54
	4	98.38
	5	105.67
	6	106.97
NC_ULS-Set(26)	1	127.04
	2	131.27
	3	132.39
	4	137.69
	5	148.01
	6	150.01
NC_ULS-Set(27)	1	91.91
	2	94.08
	3	94.54
	4	98.38
	5	105.67
	6	106.97
NC_ULS-Set(28)	1	127.04
	2	131.27
	3	132.39
	4	137.69
	5	148.01
	6	150.01
NC_ULS-Set(29)	1	127.97
	2	146.03
	3	168.10
	4	173.56
	5	177.41
	6	186.16
NC_ULS-Set(30)	1	291.21
	2	332.24
	3	361.52
	4	367.36
	5	376.21
	6	389.02
NC_ULS-Set(31)	1	81.38
	2	92.93
	3	113.71
	4	121.82
	5	127.11
	6	130.39
NC_ULS-Set(32)	1	126.54
	2	144.51

	3	174.36
	4	182.87
	5	183.55
	6	199.93
NC_ULS-Set(33)	1	60.10
	2	68.64
	3	79.16
	4	80.28
	5	81.79
	6	90.21
NC_ULS-Set(34)	1	80.15
	2	91.55
	3	95.06
	4	103.68
	5	104.06
	6	108.40
NC_ULS-Set(35)	1	60.10
	2	68.64
	3	79.16
	4	80.28
	5	81.79
	6	90.21
NC_ULS-Set(36)	1	80.15
	2	91.55
	3	95.06
	4	103.68
	5	104.06
	6	108.40
NC_ULS-Set(37)	1	99.95
	2	114.16
	3	126.14
	4	132.31
	5	133.85
	6	143.79
NC_ULS-Set(38)	1	176.61
	2	179.15
	3	201.68
	4	204.38
	5	206.77
	6	223.67
NC_ULS-Set(39)	1	70.23
	2	80.20
	3	96.68
	4	99.11
	5	101.28
	6	110.88
NC_ULS-Set(40)	1	101.86
	2	116.34

	3	133.80
	4	136.96
	5	137.37
	6	152.47



First buckling mode shape, NC_ULS-Set(4)

Code settings

Item	Value	Unit	Reference
Safety factor γ_{M0}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M1}	1.00	-	EN 1993-1-1 – 6.1
Safety factor γ_{M2}	1.25	-	EN 1993-1-1 – 6.1, EN 1993-1-8 – Table 2.1
Safety factor γ_{M3}	1.25	-	EN 1993-1-8 – Table 2.1
Safety factor γ_C	1.50	-	EN 1992-1-1 – 2.4.2.4
Safety factor γ_{Inst}	1.20	-	EN 1992-4 – Table 4.1
Joint coefficient βj	0.67	-	EN 1993-1-8 – 6.2.5(7)
Effective area - influence of mesh size	0.10	-	
Friction coefficient - concrete	0.25	-	EN 1993-1-8
Friction coefficient in slip-resistance	0.30	-	EN 1993-1-8 – Table 3.7
Limit plastic strain	0.05	-	EN 1993-1-5

Detailing	Yes		
Distance between bolts [d0]	2.20	-	EN 1993-1-8 – Table 3.3
Distance between bolts and edge [d0]	1.20	-	EN 1993-1-8 – Table 3.3
Concrete breakout resistance check	Both		
Cracked concrete	Yes		EN 1992-4
Local deformation check	Yes		
Local deformation limit	0.03	-	CIDECT DG 1, 3 – 1.1
Geometrical nonlinearity (GMNA)	Yes		Analysis with large deformations for hollow section joints
Braced system	No		EN 1993-1-8 – 5.2.2.5

PROGRAM PRIVIND CONTROLUL CALITĂŢII LUCRĂRILOR
ŞI FAZELE DETERMINANTE

Nr. crt.	Denumirea lucrării	Tipul actului întocmit	Participanţi	Observaţii
1	Betonare fundatii .	P.V.L.A.	B.E.P.I.	P-Proiectant structuri
2	Montare structură metalică (stalpi si grinzi).	P.V.	B.E.P.I.	P-Proiectant structuri
3	Receptie acoperis si inchideri.	P.V.	B.E.P.	P-Proiectant structuri

Prescurtări:

B	– Beneficiar;
E	– Executant;
P	– Proiectant;
I	– Inspectoratul Judeţean în Construcţii, ;
P.V.	– Proces verbal;
P.V.R.	– Proces verbal de recepţie;
P.V.L.A.	– Proces verbal lucrări ascunse.

Notă: – Punctele 1...3 sunt "FAZE DETERMINANTE";
– Participanţii la faza determinantă vor fi anunţaţi cu 5 zile înaintea datei stabilite.

PROIECTANT, **BENEFICIAR,** **CONSTRUCTOR,**
ing. Cristinel Grigore