



99 Frognal

Job No.	Sheet No.	Rev.
32923		
Drg. Ref.		
Made by DM	Date 31-Oct-2023	Checked Date

				width	from N.A.	Beam in	width	from N.A.	Beam in	
		[m]	Yes	[m ²]	[m]	Tension	[m ²]	[m]	Tension	
						[m]			[m]	
1	103.FR.01	103.FR.01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
2	103.FR.02	103.FR.02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
3	103.FR.03	103.FR.03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
4	103.FR.04	103.FR.04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
5	103.FR.05	103.FR.05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
6	103.FR.06	103.FR.06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
7	103.FR.07	103.FR.07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
8	1-24.TH.01	1-24.TH.01	20.0000	Yes	2666.7	20.0000	20.0000	666.67	10.0000	10.0000
9	1-24.TH.02	1-24.TH.02	20.0000	Yes	2666.7	20.0000	20.0000	666.67	10.0000	10.0000
10	1-24.TH.03	1-24.TH.03	20.0000	Yes	2666.7	20.0000	20.0000	666.67	10.0000	10.0000
11	1-24.TH.04	1-24.TH.04	20.0000	Yes	2666.7	20.0000	20.0000	666.67	10.0000	10.0000
12	99.FR.01	99.FR.01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
13	99.FR.02	99.FR.02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
14	99.FR.03	99.FR.03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
15	99.FR.04	99.FR.04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
16	99.FR.05	99.FR.05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
17	99.FR.06	99.FR.06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
18	99.FR.07	99.FR.07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
19	99.FR.08	99.FR.08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
20	99.FR.09	99.FR.09	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
21	99.FR.10	99.FR.10	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
22	W.SW.01	W.SW.01	5.0000	Yes	41.667	5.0000	5.0000	10.417	2.5000	2.5000
23	W.SE.01	W.SE.01	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
24	W.SE.02	W.SE.02	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
25	W.SE.03	W.SE.03	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
26	W.E.01	W.E.01	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
27	W.E.02	W.E.02	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
28	W.E.03	W.E.03	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
29	W.E.04	W.E.04	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
30	W.N.01	W.N.01	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
31	W.N.02	W.N.02	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000



99 Frogнал

Job No.	Sheet No.	Rev.
32923		
Drg. Ref.		
Made by DM	Date 31-Oct-2023	Checked Date

Titles

Job No.: 32923
 Job Title: 99 Frogнал
 Sub-title:
 Calculation Heading:
 Initials: DM
 Checker:
 Date Saved: 31-Oct-2023
 Date Checked:
 Notes:
 File Name: XDisp A2.xdd
 File Path: C:\Users\matri\Dropbox (A-squared)\A2-projects-2001-3000\2892 - 99 Frogнал\03 - Calculations\GMA\XDisp Models\XDisp Models

History

Date	Time	By	Notes
09-Aug-2023	11:25	matri	New
09-Aug-2023	16:59	matri	
10-Aug-2023	15:25	matri	
11-Aug-2023	10:16	matri	
06-Sep-2023	11:05	matri	
07-Sep-2023	16:35	matri	
11-Sep-2023	14:02	matri	
22-Sep-2023	16:42	matri	
22-Sep-2023	17:00	matri	
27-Oct-2023	17:21	matri	
31-Oct-2023	11:38	matri	

Displacement Lines

Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface type	Interpolate imported displacements	Calculate for tunnels
		[m]	[m]	[m]	[m]	[m]	[m]	[No.]			
1	103.FR.01	39.54150	16.01880	114.50000	16.28080	16.39060	114.50000	47	Surface	Yes	Yes
2	103.FR.02	16.28080	16.39060	114.50000	15.61090	9.62350	114.50000	14	Surface	Yes	Yes
3	103.FR.03	15.61090	9.62350	114.50000	17.73230	8.21050	114.50000	5	Surface	Yes	Yes
4	103.FR.04	17.73230	8.21050	114.50000	20.97010	7.76430	114.50000	7	Surface	Yes	Yes
5	103.FR.05	20.97010	7.76430	114.50000	21.11900	8.95420	114.50000	2	Surface	Yes	Yes
6	103.FR.06	21.11900	8.95420	114.50000	37.94110	6.38860	114.50000	34	Surface	Yes	Yes
7	103.FR.07	37.94110	6.38860	114.50000	39.61590	16.05600	114.50000	20	Surface	Yes	Yes
8	1-24.TH.01	13.44430	-35.96890	114.50000	-24.27380	-27.58320	114.50000	77	Surface	Yes	Yes
9	1-24.TH.02	-24.27380	-27.58320	114.50000	-26.28600	-40.40990	114.50000	26	Surface	Yes	Yes
10	1-24.TH.03	-26.28600	-40.40990	114.50000	11.18610	-48.76120	114.50000	77	Surface	Yes	Yes
11	1-24.TH.04	11.18610	-48.76120	114.50000	13.44430	-35.96890	114.50000	26	Surface	Yes	Yes
12	99.FR.01	29.87900	-12.17800	114.50000	17.49200	-9.78800	114.50000	25	Surface	Yes	Yes
13	99.FR.02	17.49200	-9.78800	114.50000	15.66400	-19.06500	114.50000	19	Surface	Yes	Yes
14	99.FR.03	15.66400	-19.06500	114.50000	19.24000	-19.67500	114.50000	7	Surface	Yes	Yes
15	99.FR.04	19.24000	-19.67500	114.50000	19.03600	-20.45900	114.50000	2	Surface	Yes	Yes
16	99.FR.05	19.03600	-20.45900	114.50000	19.70500	-22.43500	114.50000	4	Surface	Yes	Yes
17	99.FR.06	19.70500	-22.43500	114.50000	22.93200	-23.04500	114.50000	7	Surface	Yes	Yes
18	99.FR.07	22.93200	-23.04500	114.50000	24.35600	-21.59300	114.50000	4	Surface	Yes	Yes
19	99.FR.08	24.35600	-21.59300	114.50000	24.44300	-20.72100	114.50000	2	Surface	Yes	Yes
20	99.FR.09	24.44300	-20.72100	114.50000	28.28000	-21.53400	114.50000	8	Surface	Yes	Yes
21	99.FR.10	28.28000	-21.53400	114.50000	29.87900	-12.17800	114.50000	19	Surface	Yes	Yes
22	W.SW.01	-25.83640	-23.36270	114.50000	1.16360	-29.86270	114.50000	56	Surface	Yes	Yes
23	W.SE.01	1.16360	-29.86270	114.50000	1.66360	-28.36270	114.50000	3	Surface	Yes	Yes
24	W.SE.02	12.16360	-29.36270	114.50000	22.66360	-35.86270	114.50000	25	Surface	Yes	Yes
25	W.SE.03	1.66360	-29.36270	114.50000	12.16360	-29.36270	114.50000	21	Surface	Yes	Yes
26	W.E.01	24.83180	-28.76050	114.50000	26.32680	-28.26050	114.50000	3	Surface	Yes	Yes
27	W.E.02	26.33180	-28.26050	114.50000	27.32680	-22.26050	114.50000	12	Surface	Yes	Yes
28	W.E.03	27.32680	-22.26050	114.50000	29.82680	-22.76050	114.50000	5	Surface	Yes	Yes
29	W.E.04	29.82680	-22.76050	114.50000	33.66360	-6.36270	114.50000	34	Surface	Yes	Yes
30	W.N.01	-19.61940	4.01840	114.50000	19.32680	1.73950	114.50000	78	Surface	Yes	Yes
31	W.N.02	19.32680	1.73950	114.50000	20.61310	0.85650	114.50000	3	Surface	Yes	Yes

Displacement Grids

Ref.	Name	Extrusion Direction	Base line start:	Base line Y start:	Base line Z (level):	Base line end:	Base line Y end:	Base line Z (level):	Base line Intervals	Extrusion Distance	Extrusion Intervals	Surface type	Calculate for tunnels	
			[m]	[m]	[m]	[m]	[m]	[m]	[No.]	[m]	[No.]			
1	Grid	Global X	-52.57000	-97.52000	112.00000	12.00000	-	24.00000	112.00000	10	132.00000	27	Surface	Yes

Imported Displacements

Set:	Set:	Result:	Coordinates:	Coordinates:	Displacements:	Displacements:	Displacements:	
Ref.	Name	Ref.	x [m]	y [m]	z [m]	x [mm]	y [mm]	z [mm]
1	A2	1	39.54150	16.01880	114.50000	0.00000	0.00000	0.00814 2,6
		2	39.04659	16.02671	114.50000	0.00000	0.00000	0.00774 2,6
		3	38.55168	16.03462	114.50000	0.00000	0.00000	0.00734 2,6
		4	38.05677	16.04253	114.50000	0.00000	0.00000	0.00692 2,6
		5	37.56187	16.05044	114.50000	0.00000	0.00000	0.00651 2,6
		6	37.06696	16.05835	114.50000	0.00000	0.00000	0.00610 2,6
		7	36.57205	16.06626	114.50000	0.00000	0.00000	0.00569 2,6
		8	36.07714	16.07417	114.50000	0.00000	0.00000	0.00528 2,6
		9	35.58223	16.08208	114.50000	0.00000	0.00000	0.00487 2,6
		10	35.08732	16.09000	114.50000	0.00000	0.00000	0.00446 2,6
		11	34.59241	16.09791	114.50000	0.00000	0.00000	0.00405 2,6
		12	34.09751	16.10582	114.50000	0.00000	0.00000	0.00364 2,6
		13	33.60260	16.11373	114.50000	0.00000	0.00000	-0.00013 2,6
		14	33.10769	16.12164	114.50000	0.00000	0.00000	-0.00133 2,6
		15	32.61278	16.12955	114.50000	0.00000	0.00000	-0.00253 2,6
		16	32.11787	16.13746	114.50000	0.00000	0.00000	-0.00373 2,6
		17	31.62296	16.14537	114.50000	0.00000	0.00000	-0.00493 2,6
		18	31.12805	16.15328	114.50000	0.00000	0.00000	-0.00613 2,6
		19	30.63314	16.16119	114.50000	0.00000	0.00000	-0.00733 2,6
		20	30.13823	16.16910	114.50000	0.00000	0.00000	-0.00853 2,6
		21	29.64332	16.17701	114.50000	0.00000	0.00000	-0.00973 2,6
		22	29.14841	16.18492	114.50000	0.00000	0.00000	-0.01093 2,6
		23	28.65350	16.19283	114.50000	0.00000	0.00000	-0.01213 2,6
		24	28.15859	16.20074	114.50000	0.00000	0.00000	-0.01333 2,6
		25	27.66368	16.20865	114.50000	0.00000	0.00000	-0.01453 2,6
		26	27.16877	16.21656	114.50000	0.00000	0.00000	-0.01573 2,6
		27	26.67386	16.22447	114.50000	0.00000	0.00000	-0.01693 2,6
		28	26.17895	16.23238	114.50000	0.00000	0.00000	-0.01813 2,6
		29	25.68404	16.24029	114.50000	0.00000	0.00000	-0.01933 2,6
		30	25.18913	16.24820	114.50000	0.00000	0.00000	-0.02053 2,6



99 Frogнал

Job No. Sheet No. Rev.

32923

Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Table with columns: Set, Ref., Name, Result, Coordinates (x, y, z), Displacements (x, y, z). Contains 160 rows of data.



99 Frognal

Job No.	Sheet No.	Rev.
32923		
Drg. Ref.		
Made by DM	Date 31-Oct-2023	Checked Date

Ref.	Building Name	Sub-Building Name	Height	Default	Hogging:			Sagging:		
					2nd Mom. of Area	Dist. of Bending	Dist. of N.A. from	2nd Mom. of Area	Dist. of Bending	Dist. of N.A. from
16	99.FR.05	99.FR.05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
17	99.FR.06	99.FR.06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
18	99.FR.07	99.FR.07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
19	99.FR.08	99.FR.08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
20	99.FR.09	99.FR.09	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
21	99.FR.10	99.FR.10	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
22	W.SW.01	W.SW.01	5.0000	Yes	41.667	5.0000	5.0000	10.417	2.5000	2.5000
23	W.SE.01	W.SE.01	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
24	W.SE.02	W.SE.02	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
25	W.SE.03	W.SE.03	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
26	W.E.01	W.E.01	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
27	W.E.02	W.E.02	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
28	W.E.03	W.E.03	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
29	W.E.04	W.E.04	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
30	W.N.01	W.N.01	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
31	W.N.02	W.N.02	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000



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Job No.	Sheet No.	Rev.
32923		
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DM	31-Oct-2023	

Titles

Job No.: 32923
 Job Title: 99 Frogнал
 Sub-title:
 Calculation Heading:
 Initials: DM
 Checker:
 Date Saved: 31-Oct-2023
 Date Checked:
 Notes:
 File Name: XDisp B1.xdd
 File Path: C:\Users\matr\Dropbox
 (A-squared)\A2-projects-2001-3000\2892 - 99 Frogнал\03 -
 Calculations\GMA\XDisp Models\XDisp Models

History

Date	Time	By	Notes
09-Aug-2023	11:25	matr	New
09-Aug-2023	16:59	matr	
10-Aug-2023	15:25	matr	
11-Aug-2023	10:16	matr	
06-Sep-2023	12:54	matr	
06-Sep-2023	15:24	matr	
06-Sep-2023	15:32	matr	
07-Sep-2023	17:48	matr	
08-Sep-2023	18:27	matr	
11-Sep-2023	14:03	matr	
22-Sep-2023	17:50	matr	
26-Oct-2023	18:42	matr	
27-Oct-2023	17:24	matr	
31-Oct-2023	11:59	matr	

Displacement Lines

Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface type	Interpolate imported displacements	Calculate for tunnels
		[m]	[m]	[m]	[m]	[m]	[m]	[No.]			
1	103.FR.01	39.54150	16.01890	114.50000	16.28080	16.39060	114.50000	47	Surface	Yes	Yes
2	103.FR.02	16.28080	16.39060	114.50000	16.61090	9.62350	114.50000	14	Surface	Yes	Yes
3	103.FR.03	15.61090	9.62350	114.50000	17.73230	8.21050	114.50000	5	Surface	Yes	Yes
4	103.FR.04	17.73230	8.21050	114.50000	20.97010	7.76430	114.50000	7	Surface	Yes	Yes
5	103.FR.05	20.97010	7.76430	114.50000	21.11900	8.95420	114.50000	2	Surface	Yes	Yes
6	103.FR.06	21.11900	8.95420	114.50000	37.94110	6.38860	114.50000	34	Surface	Yes	Yes
7	103.FR.07	37.94110	6.38860	114.50000	39.61590	16.03600	114.50000	20	Surface	Yes	Yes
8	1-24.TH.01	13.44430	-35.96890	114.50000	-24.27380	-27.58320	114.50000	77	Surface	Yes	Yes
9	1-24.TH.02	-24.27380	-27.58320	114.50000	-26.28600	-40.40990	114.50000	26	Surface	Yes	Yes
10	1-24.TH.03	-26.28600	-40.40990	114.50000	11.18610	-48.76120	114.50000	77	Surface	Yes	Yes
11	1-24.TH.04	11.18610	-48.76120	114.50000	13.44430	-35.96890	114.50000	26	Surface	Yes	Yes
12	99.FR.01	29.87900	-12.17800	114.50000	17.49200	-9.78800	114.50000	25	Surface	Yes	Yes
13	99.FR.02	17.49200	-9.78800	114.50000	15.66400	-19.06500	114.50000	19	Surface	Yes	Yes
14	99.FR.03	15.66400	-19.06500	114.50000	19.24000	-19.67500	114.50000	7	Surface	Yes	Yes
15	99.FR.04	19.24000	-19.67500	114.50000	19.03600	-20.45900	114.50000	2	Surface	Yes	Yes
16	99.FR.05	19.03600	-20.45900	114.50000	19.70500	-22.43500	114.50000	4	Surface	Yes	Yes
17	99.FR.06	19.70500	-22.43500	114.50000	22.93200	-23.04500	114.50000	7	Surface	Yes	Yes
18	99.FR.07	22.93200	-23.04500	114.50000	24.35600	-21.59300	114.50000	4	Surface	Yes	Yes
19	99.FR.08	24.35600	-21.59300	114.50000	24.44300	-20.72100	114.50000	2	Surface	Yes	Yes
20	99.FR.09	24.44300	-20.72100	114.50000	28.28000	-21.53400	114.50000	8	Surface	Yes	Yes
21	99.FR.10	28.28000	-21.53400	114.50000	29.87900	-12.17800	114.50000	19	Surface	Yes	Yes
22	W.SW.01	-25.83640	-29.36270	114.50000	1.16360	-29.86270	114.50000	56	Surface	Yes	Yes
23	W.SE.01	1.16360	-29.86270	114.50000	1.66360	-28.36270	114.50000	3	Surface	Yes	Yes
24	W.SE.02	12.16360	-29.36270	114.50000	22.66360	-35.86270	114.50000	25	Surface	Yes	Yes
25	W.SE.03	1.66360	-28.36270	114.50000	12.16360	-29.36270	114.50000	21	Surface	Yes	Yes
26	W.E.01	24.83180	-28.76050	114.50000	26.32680	-28.26050	114.50000	3	Surface	Yes	Yes
27	W.E.02	26.32680	-28.26050	114.50000	27.32680	-22.26050	114.50000	12	Surface	Yes	Yes
28	W.E.03	27.32680	-22.26050	114.50000	29.82680	-22.76050	114.50000	5	Surface	Yes	Yes
29	W.E.04	29.82680	-22.76050	114.50000	33.66360	-6.36270	114.50000	34	Surface	Yes	Yes
30	W.N.01	-19.61940	4.01840	114.50000	19.32680	1.73950	114.50000	78	Surface	Yes	Yes
31	W.N.02	19.32680	1.73950	114.50000	20.61310	0.85650	114.50000	3	Surface	Yes	Yes

Displacement Grids

Ref.	Name	Extrusion: Direction	Base line start: X	Base line start: Y	Base line start: Z (level)	Base line end: X	Base line end: Y	Base line end: Z (level)	Intervals	Extrusion: Distance	Extrusion: Intervals	Surface type	Calculate for tunnels
			[m]	[m]	[m]	[m]	[m]	[m]	[No.]	[m]	[No.]		
1	Grid	Global X	-52.57000	-97.52000	112.00000	-	61.00000	112.00000	159	132.00000	132	Surface	Yes

Polygonal Excavations

Ref. 1
 Excavation Name: Wall Installation
 Surface level [m]: 112.00
 Contribution: Positive

Corner	x	y	Base Level	Arc Enabled	Stiffened	Prev. Side	Prev. Side: d	Prev. Side: p1	Next Side	Next Side: d	Next Side: p1	Next Side: p2
	[m]	[m]	[m]			[m]	[%]	[m]	[m]	[%]	[m]	[%]
1	0.56000	-0.71000	102.20	Yes	No	-	-	-	-	-	-	-
2	-3.3200	-20.260	102.20	Yes	No	-	-	-	-	-	-	-
3	5.8100	-22.060	102.20	Yes	No	-	-	-	-	-	-	-
4	16.140	-10.460	102.20	Yes	No	-	-	-	-	-	-	-
5	17.320	-4.1600	102.20	Yes	No	-	-	-	-	-	-	-
6	0.56000	-0.71000	102.20	Yes	No	-	-	-	-	-	-	-

Side	x1	y1	x2	y2	G.M. Curve: Vertical	G.M. Curve: Horizontal
	[m]	[m]	[m]	[m]		
1	0.56000	-0.71000	-3.3200	-20.260	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
2	-3.3200	-20.260	5.8100	-22.060	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
3	5.8100	-22.060	16.140	-10.460	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
4	16.140	-10.460	17.320	-4.1600	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))



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Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
5	17.320	-4.1600	0.56000	-0.71000	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
6	0.56000	-0.71000	0.56000	-0.71000	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))

Ref. 2
Excavation Name: Basement Excavation
 Surface level [m]: 112.00
 Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	0.56000	-0.71000	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	-3.3200	-20.260	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	5.8100	-22.060	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	16.140	-10.460	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
5	17.320	-4.1600	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	0.56000	-0.71000	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	0.56000	-0.71000	-3.3200	-20.260	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
2	-3.3200	-20.260	5.8100	-22.060	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
3	5.8100	-22.060	16.140	-10.460	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
4	16.140	-10.460	17.320	-4.1600	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
5	17.320	-4.1600	0.56000	-0.71000	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
6	0.56000	-0.71000	0.56000	-0.71000	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))

Circular Excavations

Vertical Ground Movement Curves

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.039] [0.100,0.000,0.049] [0.200,0.000,0.056] [0.300,0.000,0.062] [0.400,0.000,0.067] [0.500,0.000,0.070] [0.600,0.000,0.072] [0.700,0.000,0.073] [0.800,0.000,0.073] [0.900,0.000,0.072] [1.000,0.000,0.070] [1.100,0.000,0.068] [1.200,0.000,0.065] [1.300,0.000,0.061] [1.400,0.000,0.058] [1.500,0.000,0.054] [1.600,0.000,0.050] [1.700,0.000,0.046] [1.800,0.000,0.042] [1.900,0.000,0.038] [2.000,0.000,0.034] [2.100,0.000,0.030] [2.200,0.000,0.027] [2.300,0.000,0.023] [2.400,0.000,0.020] [2.500,0.000,0.017] [2.600,0.000,0.014] [2.700,0.000,0.012] [2.800,0.000,0.010] [2.900,0.000,0.008] [3.000,0.000,0.007] [3.100,0.000,0.005] [3.200,0.000,0.004] [3.300,0.000,0.004] [3.400,0.000,0.003] [3.500,0.000,0.002] [3.600,0.000,0.002] [3.700,0.000,0.002] [3.800,0.000,0.001] [3.900,0.000,0.001] [4.000,0.000,0.000]

Curve Fitting Method: Polynomial
 x Order: 4
 y Order: 0
 Polynomial: z = -2.6455E-3x⁴ + 2.8495E-2x³ - 1.0051E-1x² + 1.0569E-1x + 3.8990E-2
 Coeff. of Determination: 9.9991E-1

Curve Name: 50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.020] [2.000,0.000,0.000]

Curve Fitting Method: Polynomial
 x Order: 1
 y Order: 0
 Polynomial: z = -10.E-3x + 2.0E-2
 Coeff. of Determination: 1.0

Horizontal Ground Movement Curves

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.150] [4.000,0.000,0.000]

Curve Fitting Method: Polynomial
 x Order: 1
 y Order: 0
 Polynomial: z = -3.75E-2x + 1.50E-1
 Coeff. of Determination: 1.00

Curve Name: 50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.021] [0.050,0.000,0.019] [0.100,0.000,0.018] [0.150,0.000,0.017] [0.200,0.000,0.016] [0.250,0.000,0.015] [0.300,0.000,0.015] [0.350,0.000,0.013] [0.400,0.000,0.013] [0.450,0.000,0.011] [0.500,0.000,0.011] [0.550,0.000,0.010] [0.600,0.000,0.009] [0.650,0.000,0.009] [0.700,0.000,0.008] [0.750,0.000,0.007] [0.800,0.000,0.007] [0.850,0.000,0.006] [0.900,0.000,0.005] [0.950,0.000,0.005] [1.000,0.000,0.004] [1.050,0.000,0.004] [1.100,0.000,0.004] [1.150,0.000,0.003] [1.200,0.000,0.003] [1.250,0.000,0.002] [1.300,0.000,0.002] [1.350,0.000,0.002] [1.400,0.000,0.001] [1.450,0.000,0.001] [1.500,0.000,0.000]

Curve Fitting Method: Polynomial
 x Order: 3
 y Order: 0
 Polynomial: z = -1.4083E-3x³ + 8.0276E-3x² - 2.2288E-2x + 2.0242E-2
 Coeff. of Determination: 9.9936E-1

Damage Category Strains

Ref. Name 0 (Negligible) 1 (Very Slight) 2 (Slight) 3 (Moderate)



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1 to 1 (Very Slight) 2 (Slight) 3 (Moderate) 4 (Severe)
 1 Burland Strain Limits 0.0 500.00E-6 750.00E-6 0.0015000

Specific Buildings - Geometry

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start	Distance Along Line: End	Vertical Offsets from Line for Vertical Movement Calculations [m]	Vertical Displacement Limit Sensitivity [mm]	Damage Category Strains	Poisson's Ratio	E/G
1	103.FR.01	103.FR.01	103.FR.01	0.00000	23.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
2	103.FR.02	103.FR.02	103.FR.02	0.00000	6.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
3	103.FR.03	103.FR.03	103.FR.03	0.00000	2.50000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
4	103.FR.04	103.FR.04	103.FR.04	0.00000	3.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
5	103.FR.05	103.FR.05	103.FR.05	0.00000	1.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
6	103.FR.06	103.FR.06	103.FR.06	0.00000	17.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
7	103.FR.07	103.FR.07	103.FR.07	0.00000	9.80000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
8	1-24.TH.01	1-24.TH.01	1-24.TH.01	0.00000	36.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
9	1-24.TH.02	1-24.TH.02	1-24.TH.02	0.00000	12.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
10	1-24.TH.03	1-24.TH.03	1-24.TH.03	0.00000	38.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
11	1-24.TH.04	1-24.TH.04	1-24.TH.04	0.00000	12.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
12	99.FR.01	99.FR.01	99.FR.01	0.00000	12.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
13	99.FR.02	99.FR.02	99.FR.02	0.00000	9.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
14	99.FR.03	99.FR.03	99.FR.03	0.00000	3.60000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
15	99.FR.04	99.FR.04	99.FR.04	0.00000	0.80000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
16	99.FR.05	99.FR.05	99.FR.05	0.00000	2.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
17	99.FR.06	99.FR.06	99.FR.06	0.00000	3.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
18	99.FR.07	99.FR.07	99.FR.07	0.00000	2.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
19	99.FR.08	99.FR.08	99.FR.08	0.00000	0.80000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
20	99.FR.09	99.FR.09	99.FR.09	0.00000	3.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
21	99.FR.10	99.FR.10	99.FR.10	0.00000	9.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
22	W.SW.01	W.SW.01	W.SW.01	0.00000	27.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
23	W.SE.01	W.SE.01	W.SE.01	0.00000	1.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
24	W.SE.02	W.SE.02	W.SE.02	0.00000	12.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
25	W.SE.03	W.SE.03	W.SE.03	0.00000	10.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
26	W.E.01	W.E.01	W.E.01	0.00000	1.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
27	W.E.02	W.E.02	W.E.02	0.00000	6.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
28	W.E.03	W.E.03	W.E.03	0.00000	2.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
29	W.E.04	W.E.04	W.E.04	0.00000	16.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
30	W.N.01	W.N.01	W.N.01	0.00000	39.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
31	W.N.02	W.N.02	W.N.02	0.00000	1.00000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Specific Buildings - Bending Parameters

Ref.	Building Name	Sub-Building Name	Height	Default	Hogging: 2nd Mom. of Area (per unit width) [m ³]	Hogging: Dist. of Bending Strain from N.A. [m]	Hogging: Dist. of N.A. from Edge of Beam in Tension [m]	Sagging: 2nd Mom. of Area (per unit width) [m ³]	Sagging: Dist. of Bending Strain from N.A. [m]	Sagging: Dist. of N.A. from Edge of Beam in Tension [m]
1	103.FR.01	103.FR.01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
2	103.FR.02	103.FR.02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
3	103.FR.03	103.FR.03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
4	103.FR.04	103.FR.04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
5	103.FR.05	103.FR.05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
6	103.FR.06	103.FR.06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
7	103.FR.07	103.FR.07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
8	1-24.TH.01	1-24.TH.01	20.000	Yes	2666.7	20.000	20.000	666.67	10.000	10.000
9	1-24.TH.02	1-24.TH.02	20.000	Yes	2666.7	20.000	20.000	666.67	10.000	10.000
10	1-24.TH.03	1-24.TH.03	20.000	Yes	2666.7	20.000	20.000	666.67	10.000	10.000
11	1-24.TH.04	1-24.TH.04	20.000	Yes	2666.7	20.000	20.000	666.67	10.000	10.000
12	99.FR.01	99.FR.01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
13	99.FR.02	99.FR.02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
14	99.FR.03	99.FR.03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
15	99.FR.04	99.FR.04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
16	99.FR.05	99.FR.05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
17	99.FR.06	99.FR.06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
18	99.FR.07	99.FR.07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
19	99.FR.08	99.FR.08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
20	99.FR.09	99.FR.09	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
21	99.FR.10	99.FR.10	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
22	W.SW.01	W.SW.01	5.0000	Yes	41.667	5.0000	5.0000	10.417	2.5000	2.5000
23	W.SE.01	W.SE.01	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
24	W.SE.02	W.SE.02	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
25	W.SE.03	W.SE.03	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
26	W.E.01	W.E.01	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
27	W.E.02	W.E.02	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
28	W.E.03	W.E.03	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
29	W.E.04	W.E.04	2.0000	Yes	2.6667	2.0000	2.0000	0.66667	1.0000	1.0000
30	W.N.01	W.N.01	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000
31	W.N.02	W.N.02	1.5000	Yes	1.1250	1.5000	1.5000	0.28125	0.75000	0.75000



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Titles

Job No.: 99 Frogнал 32923
Job Title:
Sub-title:
Calculation Heading:
Initials: DM
Checker:
Date Saved: 31-Oct-2023
Date Checked:
Notes:
File Name: XDisp B2.xdd
File Path: C:\Users\matr\Dropbox

History

Table with columns: Date, Time, By, Notes. Shows a list of user actions and timestamps from 09-Aug-2023 to 31-Oct-2023.

Displacement Lines

Table with columns: Ref., Name, x1, y1, z1, x2, y2, z2, Intervals, Surface type, Interpolate, Calculate. Lists various displacement lines with their coordinates and properties.

Displacement Grids

Table with columns: Ref., Name, Extrusion: Direction, Base line start: X, Base line start: Y, Base line start: Z, Base line end: X, Base line end: Y, Base line end: Z, Extrusion: Distance, Extrusion: Intervals, Surface type, Calculate. Shows grid details for a global X direction.

Imported Displacements

Table with columns: Set, Ref., Name, Result, Coordinates: x, y, z, Displacements: x, y, z. Lists imported displacement points with their coordinates and displacement values.



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Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 284 rows of coordinate and displacement data.



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Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z
[m] [mm] [mm]

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 935-1064 showing coordinate and displacement data.



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Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 150 rows of coordinate and displacement data.



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Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], Displacements x [mm], Displacements y [mm], Displacements z [mm]. Rows 1715 to 1844, showing coordinate and displacement data for points 1715-1844.



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Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with 8 columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows contain numerical data for various points from 2105 to 2234.



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Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 2495 to 2624.



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Checked

Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 2625-2754. All displacement values are 0.00000.



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32923

Drq. Ref.

Made by Date Checked Date

DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref. Name, Ref. No., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 2885-3014 showing coordinate and displacement data.



99 Frogнал

Job No. Sheet No. Rev.

32923

Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Table with columns: Set Ref., Set Name, Result Ref., Coordinates x [m], y [m], z [m], Displacements x [mm], y [mm], z [mm]. Contains a list of points from 3275 to 3404 with their respective coordinates and displacement values.



99 Frogнал

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32923

Drg. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for points 3535 through 3664.



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32923

Drg. Ref.

Made by Date Checked Date

DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 4445 to 4574.



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Job No. Sheet No. Rev.

32923

Drq. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 4705-4834.



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32923

Drg. Ref.

Made by Date Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 40 rows of data from 4835 to 4964.



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Drg. Ref.

Made by Date Checked Date
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Table with columns: Ref., Name, Result, Coordinates (x, y, z), Displacements (x, y, z). Contains 50 rows of data for points 4965 to 5094.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 50 rows of coordinate and displacement data for various points (e.g., 5225 to 5354).



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 5355 to 5484.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref., Name, Ref., x, y, z, x, y, z. Rows 5485 to 5614. Values include coordinates and displacements in mm.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains displacement data for points 6005 to 6134.



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32923

Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 100 rows of numerical data.



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Drg. Ref.

Made by DM

Date 31-Oct-2023

Checked

Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref., Name, Ref., x, y, z, x, y, z [mm]. Rows 7175 to 7304. All displacement values are 0.00000.



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Drq. Ref.

Made by Date Checked Date
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Table with columns: Set Ref., Set Name, Result Ref., Coordinates x [m], y [m], z [m], Displacements x [mm], y [mm], z [mm]. Contains 7305-7434 rows of data.



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Drq. Ref.

Made by Date Checked Date
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Table with columns: Set Ref., Set Name, Result Ref., Coordinates x [m], Coordinates y [m], Coordinates z [m], Displacements x [mm], Displacements y [mm], Displacements z [mm]. Contains 100 rows of data.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains a list of points from 8215 to 8344 with their respective coordinates and displacements.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 100 rows of numerical data.



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Drg. Ref.

Made by

Date

31-Oct-2023

Checked

Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 9255 to 9384.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 9385 to 9514.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 9905-10034.



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Drg. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements: Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 10815 to 10944. Values for x, y, z are constant across rows, while displacement values vary.



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Dr. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x, y, z, x, y, z [mm]. Rows 10945 to 11074.



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Dr. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. It contains a list of 150 rows of data points with numerical values for each coordinate and displacement.



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Drg. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x [mm] y [mm] z [mm]

Table with columns: Ref. Name, Ref., x, y, z, x [mm], y [mm], z [mm]. Rows contain numerical data for various reference points (e.g., 11725, 11726, ..., 11854).



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Drq. Ref.

Made by

Date

31-Oct-2023

Checked

Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z

[m] [m] [m] [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows contain numerical data for various reference points.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains a list of reference points and their coordinates.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for points 12765 to 12894.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for points 12895 through 13024.



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Dr. Ref.

Made by Date Checked Date

DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref. No., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains displacement data for points 13155 to 13284.



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32923

Drg. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 100 rows of coordinate and displacement data.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for points 13545 to 13674.



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32923

Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Table with columns: Set Ref., Set Name, Result Ref., Coordinates x [m], Coordinates y [m], Coordinates z [m], Displacements x [mm], Displacements y [mm], Displacements z [mm]. Contains data for points 13675 to 13804.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 100 rows of numerical data.



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Drg. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with 8 columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 149 rows of coordinate and displacement data.



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Drg. Ref.

Made by Date Checked Date

DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows include data for reference points 14325 through 14454.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for points 14455 through 14584.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows contain numerical data for various points (e.g., 14595, 14586, 14587, etc.)



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Dr. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 15235 to 15364.



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32923

Dr. Ref.

Made by Date Checked Date

DM 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z

Table with 8 columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. It contains a list of points from 15625 to 15754 with their respective coordinates and displacements.



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Job No. Sheet No. Rev.

32923

Drp. Ref.

Made by

Date

31-Oct-2023

Checked

Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements: Ref. Name Ref. x y z x [mm] y [mm] z [mm]

Table with columns for Ref. Name, Ref., x, y, z, x [mm], y [mm], and z [mm]. Rows contain numerical data for various points (e.g., 15895, 15886, 15887, etc.).

Table with columns: Set Ref., Set Name, Result Ref., Coordinates x [m], y [m], z [m], Displacements x [mm], y [mm], z [mm]. Rows contain numerical data for various points from 16145 to 16274.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 16404 rows of coordinate and displacement data.



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Dr. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 16405 to 16534.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains 100 rows of numerical data representing coordinates and displacements for various points.



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Drg. Ref.

Made by Date Checked Date

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Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 17185 to 17314.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains a list of points from 17315 to 17444 with their respective coordinates and displacements.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z

Table with columns: Ref., Name, Ref., x, y, z, x, y, z. Rows 17445 to 17574. Displacements are all 0.00000.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref., Name, Ref., x, y, z, x, y, z [mm]. Rows 17575 to 17704.



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32923

Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 18095 to 18224 showing coordinate and displacement data.



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32923

Dr. Ref.

Made by Date 31-Oct-2023 Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Ref. Name Ref. x y z x y z [mm] [mm] [mm]

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 18495 to 18614.



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32923

Dr. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Table with columns: Set Ref., Set Name, Result Ref., Coordinates x [m], Coordinates y [m], Coordinates z [m], Displacements x [mm], Displacements y [mm], Displacements z [mm]. Rows 19005 to 19134.



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Drq. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:
Ref. Name Ref. x y z x y z

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 19135 to 19264.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Rows 19265 to 19394.



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32923

Drq. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for points 19915 to 20044.



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Job No. Sheet No. Rev.

32923

Drq. Ref.

Made by Date 31-Oct-2023

Checked Date

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref., Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. It contains a list of 208 data points for a 99 Frognal structure, showing coordinates and displacements for each point.



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Drg. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Table with columns: Set Ref., Name, Result Ref., Coordinates x [m], y [m], z [m], Displacements x [mm], y [mm], z [mm]. Rows 21085 to 21214.



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Job No. Sheet No. Rev.

32923

Dr. Ref.

Made by Date Checked Date
DM 31-Oct-2023

Set: Set: Result: Coordinates: Coordinates: Coordinates: Displacements: Displacements: Displacements:

Table with columns: Ref. Name, Ref., x [m], y [m], z [m], x [mm], y [mm], z [mm]. Contains data for 21604 points.



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Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
5	17.320	-4.1600	0.56000	-0.71000	bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b)) 50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a)) 50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
6	0.56000	-0.71000	0.56000	-0.71000	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))

Ref. 2
Excavation Name: Basement Excavation
 Surface level [m]: 112.00
 Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	0.56000	-0.71000	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	-3.3200	-20.260	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	5.8100	-22.060	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	16.140	-10.460	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
5	17.320	-4.1600	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	0.56000	-0.71000	105.20	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	0.56000	-0.71000	-3.3200	-20.260	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
2	-3.3200	-20.260	5.8100	-22.060	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
3	5.8100	-22.060	16.140	-10.460	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
4	16.140	-10.460	17.320	-4.1600	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
5	17.320	-4.1600	0.56000	-0.71000	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
6	0.56000	-0.71000	0.56000	-0.71000	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))

Circular Excavations

Vertical Ground Movement Curves

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]
 [0.000,0.000,0.039] [0.100,0.000,0.049] [0.200,0.000,0.056] [0.300,0.000,0.062] [0.400,0.000,0.067] [0.500,0.000,0.070] [0.600,0.000,0.072] [0.700,0.000,0.073] [0.800,0.000,0.073] [0.900,0.000,0.072] [1.000,0.000,0.070] [1.100,0.000,0.068] [1.200,0.000,0.065] [1.300,0.000,0.061] [1.400,0.000,0.058] [1.500,0.000,0.054] [1.600,0.000,0.050] [1.700,0.000,0.046] [1.800,0.000,0.042] [1.900,0.000,0.038] [2.000,0.000,0.034] [2.100,0.000,0.030] [2.200,0.000,0.027] [2.300,0.000,0.023] [2.400,0.000,0.020] [2.500,0.000,0.017] [2.600,0.000,0.014] [2.700,0.000,0.012] [2.800,0.000,0.010] [2.900,0.000,0.008] [3.000,0.000,0.007] [3.100,0.000,0.005] [3.200,0.000,0.004] [3.300,0.000,0.004] [3.400,0.000,0.003] [3.500,0.000,0.002] [3.600,0.000,0.002] [3.700,0.000,0.002] [3.800,0.000,0.001] [3.900,0.000,0.001] [4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = -2.6455E-3x⁴ + 2.8495E-2x³ - 1.0051E-1x² + 1.0569E-1x + 3.8990E-2
Coeff. of Determination: 9.9991E-1

Curve Name: 50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]
 [0.000,0.000,0.020] [2.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -10.E-3x + 2.0E-2
Coeff. of Determination: 1.0

Horizontal Ground Movement Curves

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z) (%)]
 [0.000,0.000,0.150] [4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -3.75E-2x + 1.50E-1
Coeff. of Determination: 1.00

Curve Name: 50% of Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z) (%)]
 [0.000,0.000,0.021] [0.050,0.000,0.019] [0.100,0.000,0.018] [0.150,0.000,0.017] [0.200,0.000,0.016] [0.250,0.000,0.015] [0.300,0.000,0.015] [0.350,0.000,0.013] [0.400,0.000,0.013] [0.450,0.000,0.011] [0.500,0.000,0.011] [0.550,0.000,0.010] [0.600,0.000,0.009] [0.650,0.000,0.009] [0.700,0.000,0.008] [0.750,0.000,0.007] [0.800,0.000,0.007] [0.850,0.000,0.006] [0.900,0.000,0.005] [0.950,0.000,0.005] [1.000,0.000,0.004] [1.050,0.000,0.004] [1.100,0.000,0.004] [1.150,0.000,0.003] [1.200,0.000,0.003] [1.250,0.000,0.002] [1.300,0.000,0.002] [1.350,0.000,0.002] [1.400,0.000,0.001] [1.450,0.000,0.001] [1.500,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = -1.4083E-3x³ + 8.0276E-3x² - 2.2288E-2x + 2.0242E-2
Coeff. of Determination: 9.9936E-1

Damage Category Strains



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