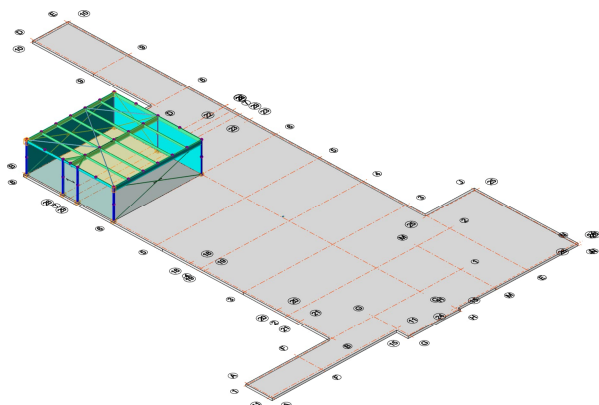


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Structure

Structure

Action Codes

General Loading BS EN 1991-1-1 + UK NA (2002)
Wind Loading BS EN 1991-1-4 + UK NA (2005)
Snow Loading BS EN 1991-1-3 + UK NA (2003)
Seismic Loading BS EN 1998-1 + UK NA (2004)
Combinations BS EN 1990 + UK NA (2002)

Resistance Codes

Steel Design BS EN 1993-1-1 + UK NA (2005)
Concrete Design BS EN 1992-1-1 + UK NA (2004)
Composite Design BS EN 1994-1-1 + UK NA (2004)
Timber Design BS EN 1995-1-1 + UK NA (2004)
Masonry Design BS EN 1996-1-1 + UK NA (2005)
Foundation Design BS EN 1997-1 + UK NA (2004)
Seismic Design and Detailing BS EN 1998-1 + UK NA (2004)
Steel Fire Design BS EN 1993-1-2 + UK NA (2005)

Combinations

Name	Class	Active	Strength	Service
1 STR ₁ -1.35G+1.5Q+1.5RQ	Gravity	●	●	●
2 STR _{3,1} -1.35G+1.5Q+1.5RQ+EHF _{Dir1+}	Lateral	●	●	●
3 STR _{3,2} -1.35G+1.5Q+1.5RQ+EHF _{Dir1-}	Lateral	●	●	●
4 STR _{3,3} -1.35G+1.5Q+1.5RQ+EHF _{Dir2+}	Lateral	●	●	●
5 STR _{3,4} -1.35G+1.5Q+1.5RQ+EHF _{Dir2-}	Lateral	●	●	●
6 STR _{6,1} -1.35G+1.5Q+1.5ψ ₀ S+1.5ψ ₀ W+EHF _{Dir1+}	Lateral	●	●	●
7 STR _{6,2} -1.35G+1.5Q+1.5ψ ₀ S+1.5ψ ₀ W+EHF _{Dir1+}	Lateral	●	●	●
8 STR _{6,3} -1.35G+1.5Q+1.5ψ ₀ S+1.5ψ ₀ W+EHF _{Dir1+}	Lateral	●	●	●
9 STR _{6,4} -1.35G+1.5Q+1.5ψ ₀ S+1.5ψ ₀ W+EHF _{Dir1+}	Lateral	●	●	●
10 STR _{8,1} -1.35G+1.5ψ ₀ Q+1.5ψ ₀ S+1.5W+EHF _{Dir1+}	Lateral	●	●	●
11 STR _{8,2} -1.35G+1.5ψ ₀ Q+1.5ψ ₀ S+1.5W+EHF _{Dir1+}	Lateral	●	●	●

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Name		Class	Active	Strength	Service
12 STR _{8,3} -1.35G+1.5ψ ₀ Q+1.5ψ ₀ S+1.5W+EHF _{Dir1+}		Lateral	•	•	•
13 STR _{8,4} -1.35G+1.5ψ ₀ Q+1.5ψ ₀ S+1.5W+EHF _{Dir1+}		Lateral	•	•	•

1 STR₁-1.35G+1.5Q+1.5RQ

Loadcase Title	Strength	Service	SLS Quasi
3 Dead	1.350	1.000	1.000
5 Imposed	1.500	1.000	0.300
4 Services	1.350	1.000	1.000

2 STR_{3,1}-1.35G+1.5Q+1.5RQ+EHF_{Dir1+}

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
4 Services	1.350	1.000
EHF _{Dir1+}	1.000	0.000

3 STR_{3,2}-1.35G+1.5Q+1.5RQ+EHF_{Dir1-}

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
4 Services	1.350	1.000
EHF _{Dir1-}	1.000	0.000

4 STR_{3,3}-1.35G+1.5Q+1.5RQ+EHF_{Dir2+}

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
4 Services	1.350	1.000
EHF _{Dir2+}	1.000	0.000

5 STR_{3,4}-1.35G+1.5Q+1.5RQ+EHF_{Dir2-}

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
4 Services	1.350	1.000
EHF _{Dir2-}	1.000	0.000

6 STR_{6,1}-1.35G+1.5Q+1.5ψ₀S+1.5ψ₀W+EHF_{Dir1+}

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
30 Wind 0,-Cpe, All	0.750	0.500
4 Services	1.350	1.000
EHF _{Dir1+}	1.000	0.000

7 STR_{6,2}-1.35G+1.5Q+1.5ψ₀S+1.5ψ₀W+EHF_{Dir1+}

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
35 Wind 90,-Cpe, All	0.750	0.500
4 Services	1.350	1.000
EHF _{Dir1+}	1.000	0.000

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8 $STR_{6,3}-1.35G+1.5Q+1.5\psi_0S+1.5\psi_0W+EHF_{Dir1+}$

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
40 Wind 180,-Cpe, All	0.750	0.500
4 Services	1.350	1.000
EHF_{Dir1+}	1.000	0.000

9 $STR_{6,4}-1.35G+1.5Q+1.5\psi_0S+1.5\psi_0W+EHF_{Dir1+}$

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.500	1.000
45 Wind 270,-Cpe, All	0.750	0.500
4 Services	1.350	1.000
EHF_{Dir1+}	1.000	0.000

10 $STR_{8,1}-1.35G+1.5\psi_0Q+1.5\psi_0S+1.5W+EHF_{Dir1+}$

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.050	0.700
30 Wind 0,-Cpe, All	1.500	1.000
4 Services	1.350	1.000
EHF_{Dir1+}	1.000	0.000

11 $STR_{8,2}-1.35G+1.5\psi_0Q+1.5\psi_0S+1.5W+EHF_{Dir1+}$

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.050	0.700
35 Wind 90,-Cpe, All	1.500	1.000
4 Services	1.350	1.000
EHF_{Dir1+}	1.000	0.000

12 $STR_{8,3}-1.35G+1.5\psi_0Q+1.5\psi_0S+1.5W+EHF_{Dir1+}$

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.050	0.700
40 Wind 180,-Cpe, All	1.500	1.000
4 Services	1.350	1.000
EHF_{Dir1+}	1.000	0.000

13 $STR_{8,4}-1.35G+1.5\psi_0Q+1.5\psi_0S+1.5W+EHF_{Dir1+}$

Loadcase Title	Strength	Service
3 Dead	1.350	1.000
5 Imposed	1.050	0.700
45 Wind 270,-Cpe, All	1.500	1.000
4 Services	1.350	1.000
EHF_{Dir1+}	1.000	0.000

Wind Data

General

Method
BS EN 1991-1-4:2005 UK NA

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Method
Wind speed and ground roughness databases derived from data, © BRE Ltd.
Altitude databases derived from data, © NASA 2006

Site Details

Grid Reference	TQ920858
Altitude	12 m
Air Density	1.226 kg/m ³
Site Ground Level	0.0 mm
Orientation of North relative to Tekla Structural Designer axes	280.0000 °
Tall neighbouring buildings not considered	
Orography considered	
Shelter effect from obstructions is not included	
Basic wind speed, $v_{b,map}$	21.9 m/s
Probability Factor, c_{prob}	1.000
Seasonal Factor, c_{season}	1.000
Default Height for Internal Pressure, z_i	3750.0 mm

Intermediate Factors

280° North

Direction Factor, c_{dir}	0.780
Height above ground	3750.0 mm
Effective Height, $z - h_{dis}$	3750.0 mm
Altitude factor, c_{alt}	1.008
Orography factor, c_o	1.000
Exposure factor, c_e	1.742
Peak wind velocity, v_p	22.8 m/s

310°

Direction Factor, c_{dir}	0.820
Height above ground	3750.0 mm
Effective Height, $z - h_{dis}$	3750.0 mm
Altitude factor, c_{alt}	1.007
Orography factor, c_o	1.000
Exposure factor, c_e	1.742
Peak wind velocity, v_p	23.9 m/s

340°

Direction Factor, c_{dir}	0.910
Height above ground	3750.0 mm
Effective Height, $z - h_{dis}$	3750.0 mm
Altitude factor, c_{alt}	1.008
Orography factor, c_o	1.000
Exposure factor, c_e	1.742
Peak wind velocity, v_p	26.6 m/s

10° West

Direction Factor, c_{dir}	0.990
Height above ground	3750.0 mm
Effective Height, $z - h_{dis}$	3750.0 mm
Altitude factor, c_{alt}	1.008
Orography factor, c_o	1.000

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Altitude factor, c_{alt} 1.007
Orography factor, c_o 1.000
Exposure factor, c_e 1.964
Exposure correction factor for town, $c_{e,T}$ 0.771
Peak wind velocity, v_p 20.1 m/s

220°
Direction Factor, c_{dir} 0.730
Height above ground 3750.0 mm
Effective Height, $z - h_{dis}$ 3750.0 mm
Altitude factor, c_{alt} 1.008
Orography factor, c_o 1.002
Exposure factor, c_e 1.849
Peak wind velocity, v_p 22.0 m/s

250°
Direction Factor, c_{dir} 0.730
Height above ground 3750.0 mm
Effective Height, $z - h_{dis}$ 3750.0 mm
Altitude factor, c_{alt} 1.009
Orography factor, c_o 1.002
Exposure factor, c_e 1.742
Peak wind velocity, v_p 21.3 m/s

Building Directions
0°
Height above ground 3750.0 mm
Peak wind velocity, v_p 31.4 m/s
Peak velocity pressure, q_p 0.603 kN/m²

90°
Height above ground 3750.0 mm
Peak wind velocity, v_p 29.2 m/s
Peak velocity pressure, q_p 0.522 kN/m²

180°
Height above ground 3750.0 mm
Peak wind velocity, v_p 22.9 m/s
Peak velocity pressure, q_p 0.321 kN/m²

270°
Height above ground 3750.0 mm
Peak wind velocity, v_p 23.9 m/s
Peak velocity pressure, q_p 0.350 kN/m²

Generated Loadcases
29 Wind 0,Cpi 0.2,-Cpe
Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.864	5.6	-4.86
	B	-0.616	22.5	-13.86
	C	-0.430	10.2	-4.37

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Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 22	E	-0.326	38.1	-12.41
WI 7	A	-0.864	5.6	-4.86
	B	-0.616	22.5	-13.86
	C	-0.430	10.2	-4.37
WI 20	D	0.322	38.1	12.29

Average Wall Loads

Windward 0.322 kN/m²

Leeward -0.326 kN/m²

Left -0.603 kN/m²

Right -0.603 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.359	1.4	-1.91
	F	-1.359	1.4	-1.91
	G	-0.987	4.8	-4.75
	H	-0.554	30.5	-16.89
	I	-0.244	65.7	-16.05

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	10.31	0.00	-	39589.4
St. Base.1 (Base.1)	12.35	0.00	-	39589.4
St. 1 (1)	2.04	0.00	-	39589.4
Total	24.70	0.00	-	-

Total Loads

X 24.70 kN

Y 0.00 kN

Z -41.51 kN

28 Wind 0,Cpi 0.2,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.864	5.6	-4.86
	B	-0.616	22.5	-13.86
	C	-0.430	10.2	-4.37
WI 22	E	-0.326	38.1	-12.41
WI 7	A	-0.864	5.6	-4.86
	B	-0.616	22.5	-13.86
	C	-0.430	10.2	-4.37
WI 20	D	0.322	38.1	12.29

Average Wall Loads

Windward 0.322 kN/m²

Leeward -0.326 kN/m²

Left -0.603 kN/m²

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Right -0.603 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.359	1.4	-1.91
	F	-1.359	1.4	-1.91
	G	-0.987	4.8	-4.75
	H	-0.554	30.5	-16.89
	I	0.003	65.7	0.21

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	10.31	0.00	-	39589.4
St. Base.1 (Base.1)	12.35	0.00	-	39589.4
St. 1 (1)	2.04	0.00	-	39589.4
Total	24.70	0.00	-	-

Total Loads

X 24.70 kN

Y 0.00 kN

Z -25.25 kN

27 Wind 0,Cpi -0.3,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.562	5.6	-3.16
	B	-0.314	22.5	-7.07
	C	-0.129	10.2	-1.31
WI 22	E	-0.024	38.1	-0.92
WI 7	A	-0.562	5.6	-3.16
	B	-0.314	22.5	-7.07
	C	-0.129	10.2	-1.31
WI 20	D	0.624	38.1	23.78

Average Wall Loads

Windward 0.624 kN/m²

Leeward -0.024 kN/m²

Left -0.301 kN/m²

Right -0.301 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.057	1.4	-1.49
	F	-1.057	1.4	-1.49
	G	-0.686	4.8	-3.30
	H	-0.252	30.5	-7.69
	I	0.057	65.7	3.75

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Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	10.31	0.00	-	39589.4
St. Base.1 (Base.1)	12.35	0.00	-	39589.4
St. 1 (1)	2.04	0.00	-	39589.4
Total	24.70	0.00	-	-

Total Loads

X 24.70 kN
Y 0.00 kN
Z -10.21 kN

26 Wind 0,Cpi -0.3,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.562	5.6	-3.16
	B	-0.314	22.5	-7.07
	C	-0.129	10.2	-1.31
WI 22	E	-0.024	38.1	-0.92
WI 7	A	-0.562	5.6	-3.16
	B	-0.314	22.5	-7.07
	C	-0.129	10.2	-1.31
WI 20	D	0.624	38.1	23.78

Average Wall Loads

Windward 0.624 kN/m²
Leeward -0.024 kN/m²
Left -0.301 kN/m²
Right -0.301 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.057	1.4	-1.49
	F	-1.057	1.4	-1.49
	G	-0.686	4.8	-3.30
	H	-0.252	30.5	-7.69
	I	0.305	65.7	20.01

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	10.31	0.00	-	39589.4
St. Base.1 (Base.1)	12.35	0.00	-	39589.4
St. 1 (1)	2.04	0.00	-	39589.4
Total	24.70	0.00	-	-

Total Loads

X 24.70 kN
Y 0.00 kN
Z 6.04 kN

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30 Wind 0,-Cpe, All

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.690	5.6	-3.88
	B	-0.460	22.5	-10.35
	C	-0.287	10.2	-2.92
WI 22	E	-0.162	38.1	-6.17
WI 7	A	-0.690	5.6	-3.88
	B	-0.460	22.5	-10.35
	C	-0.287	10.2	-2.92
WI 20	D	0.350	38.1	13.32

Average Wall Loads

Windward 0.350 kN/m²

Leeward -0.162 kN/m²

Left -0.448 kN/m²

Right -0.448 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.149	1.4	-1.62
	F	-1.149	1.4	-1.62
	G	-0.805	4.8	-3.87
	H	-0.402	30.5	-12.26
	I	-0.115	65.7	-7.55

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	8.13	0.00	-	39589.4
St. Base.1 (Base.1)	9.74	0.00	-	39589.4
St. 1 (1)	1.61	0.00	-	39589.4
Total	19.49	0.00	-	-

Total Loads

X 19.49 kN

Y 0.00 kN

Z -26.91 kN

31 Wind 90,Cpi -0.3,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	D	0.540	38.3	20.69
WI 22	A	-0.486	5.6	-2.74
	B	-0.272	22.5	-6.12
	C	-0.111	10.0	-1.11
WI 7	E	-0.021	38.3	-0.81
WI 20	A	-0.486	5.6	-2.74
	B	-0.272	22.5	-6.12
	C	-0.111	10.0	-1.11

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Average Wall Loads

Windward 0.540 kN/m²
 Leeward -0.021 kN/m²
 Left -0.262 kN/m²
 Right -0.262 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.915	1.4	-1.29
	F	-0.915	1.4	-1.29
	G	-0.594	4.8	-2.88
	H	-0.218	30.6	-6.69
	I	0.264	65.5	17.27

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	8.97	20183.3	-
St. Base.1 (Base.1)	0.00	10.75	20183.3	-
St. 1 (1)	0.00	1.78	20183.3	-
Total	0.00	21.49	-	-

Total Loads

X 0.00 kN
 Y 21.49 kN
 Z 5.13 kN

32 Wind 90,Cpi -0.3,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	D	0.540	38.3	20.69
WI 22	A	-0.486	5.6	-2.74
	B	-0.272	22.5	-6.12
	C	-0.111	10.0	-1.11
WI 7	E	-0.021	38.3	-0.81
WI 20	A	-0.486	5.6	-2.74
	B	-0.272	22.5	-6.12
	C	-0.111	10.0	-1.11

Average Wall Loads

Windward 0.540 kN/m²
 Leeward -0.021 kN/m²
 Left -0.262 kN/m²
 Right -0.262 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.915	1.4	-1.29
	F	-0.915	1.4	-1.29
	G	-0.594	4.8	-2.88

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Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	H	-0.218	30.6	-6.69
	I	0.049	65.5	3.24

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	8.97	20183.3	-
St. Base.1 (Base.1)	0.00	10.75	20183.3	-
St. 1 (1)	0.00	1.78	20183.3	-
Total	0.00	21.49	-	-

Total Loads

X 0.00 kN

Y 21.49 kN

Z -8.90 kN

33 Wind 90,Cpi 0.2,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	D	0.279	38.3	10.69
WI 22	A	-0.747	5.6	-4.20
	B	-0.533	22.5	-12.00
	C	-0.372	10.0	-3.72
WI 7	E	-0.282	38.3	-10.81
WI 20	A	-0.747	5.6	-4.20
	B	-0.533	22.5	-12.00
	C	-0.372	10.0	-3.72

Average Wall Loads

Windward 0.279 kN/m²

Leeward -0.282 kN/m²

Left -0.523 kN/m²

Right -0.523 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.176	1.4	-1.65
	F	-1.176	1.4	-1.65
	G	-0.855	4.8	-4.14
	H	-0.480	30.6	-14.69
	I	0.003	65.5	0.18

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	8.97	20183.3	-
St. Base.1 (Base.1)	0.00	10.75	20183.3	-
St. 1 (1)	0.00	1.78	20183.3	-
Total	0.00	21.49	-	-

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Total Loads

X 0.00 kN
Y 21.49 kN
Z -21.96 kN

34 Wind 90,Cpi 0.2,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	D	0.279	38.3	10.69
WI 22	A	-0.747	5.6	-4.20
	B	-0.533	22.5	-12.00
	C	-0.372	10.0	-3.72
WI 7	E	-0.282	38.3	-10.81
WI 20	A	-0.747	5.6	-4.20
	B	-0.533	22.5	-12.00
	C	-0.372	10.0	-3.72

Average Wall Loads

Windward 0.279 kN/m²
Leeward -0.282 kN/m²
Left -0.523 kN/m²
Right -0.523 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-1.176	1.4	-1.65
	F	-1.176	1.4	-1.65
	G	-0.855	4.8	-4.14
	H	-0.480	30.6	-14.69
	I	-0.212	65.5	-13.85

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	8.97	20183.3	-
St. Base.1 (Base.1)	0.00	10.75	20183.3	-
St. 1 (1)	0.00	1.78	20183.3	-
Total	0.00	21.49	-	-

Total Loads

X 0.00 kN
Y 21.49 kN
Z -35.99 kN

35 Wind 90,-Cpe, All

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	D	0.303	38.3	11.59
WI 22	A	-0.597	5.6	-3.36
	B	-0.398	22.5	-8.95

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Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 22	C	-0.249	10.0	-2.48
WI 7	E	-0.140	38.3	-5.37
WI 20	A	-0.597	5.6	-3.36
	B	-0.398	22.5	-8.95
	C	-0.249	10.0	-2.48

Average Wall Loads

Windward 0.303 kN/m²

Leeward -0.140 kN/m²

Left -0.388 kN/m²

Right -0.388 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.995	1.4	-1.40
	F	-0.995	1.4	-1.40
	G	-0.696	4.8	-3.37
	H	-0.348	30.6	-10.66
	I	-0.099	65.5	-6.51

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	7.08	20183.3	-
St. Base.1 (Base.1)	0.00	8.48	20183.3	-
St. 1 (1)	0.00	1.40	20183.3	-
Total	0.00	16.96	-	-

Total Loads

X 0.00 kN

Y 16.96 kN

Z -23.35 kN

36 Wind 180,Cpi -0.3,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.299	5.6	-1.68
	B	-0.167	22.5	-3.76
	C	-0.068	10.2	-0.70
WI 22	D	0.332	38.1	12.65
WI 7	A	-0.299	5.6	-1.68
	B	-0.167	22.5	-3.76
	C	-0.068	10.2	-0.70
WI 20	E	-0.013	38.1	-0.49

Average Wall Loads

Windward 0.332 kN/m²

Leeward -0.013 kN/m²

Left -0.160 kN/m²

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Right -0.160 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.562	1.4	-0.79
	F	-0.562	1.4	-0.79
	G	-0.365	4.8	-1.75
	H	-0.134	30.5	-4.09
	I	0.162	65.7	10.64

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	-5.48	0.00	-	39589.4
St. Base.1 (Base.1)	-6.57	0.00	-	39589.4
St. 1 (1)	-1.09	0.00	-	39589.4
Total	-13.14	0.00	-	-

Total Loads

X -13.14 kN

Y 0.00 kN

Z 3.21 kN

37 Wind 180,Cpi -0.3,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.299	5.6	-1.68
	B	-0.167	22.5	-3.76
	C	-0.068	10.2	-0.70
WI 22	D	0.332	38.1	12.65
WI 7	A	-0.299	5.6	-1.68
	B	-0.167	22.5	-3.76
	C	-0.068	10.2	-0.70
WI 20	E	-0.013	38.1	-0.49

Average Wall Loads

Windward 0.332 kN/m²

Leeward -0.013 kN/m²

Left -0.160 kN/m²

Right -0.160 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.562	1.4	-0.79
	F	-0.562	1.4	-0.79
	G	-0.365	4.8	-1.75
	H	-0.134	30.5	-4.09
	I	0.030	65.7	2.00

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Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	-5.48	0.00	-	39589.4
St. Base.1 (Base.1)	-6.57	0.00	-	39589.4
St. 1 (1)	-1.09	0.00	-	39589.4
Total	-13.14	0.00	-	-

Total Loads

X -13.14 kN
Y 0.00 kN
Z -5.43 kN

38 Wind 180,Cpi 0.2,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.459	5.6	-2.58
	B	-0.328	22.5	-7.37
	C	-0.229	10.2	-2.33
WI 22	D	0.171	38.1	6.53
WI 7	A	-0.459	5.6	-2.58
	B	-0.328	22.5	-7.37
	C	-0.229	10.2	-2.33
WI 20	E	-0.173	38.1	-6.60

Average Wall Loads

Windward 0.171 kN/m²
Leeward -0.173 kN/m²
Left -0.321 kN/m²
Right -0.321 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.723	1.4	-1.02
	F	-0.723	1.4	-1.02
	G	-0.525	4.8	-2.53
	H	-0.295	30.5	-8.98
	I	0.002	65.7	0.11

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	-5.48	0.00	-	39589.4
St. Base.1 (Base.1)	-6.57	0.00	-	39589.4
St. 1 (1)	-1.09	0.00	-	39589.4
Total	-13.14	0.00	-	-

Total Loads

X -13.14 kN
Y 0.00 kN
Z -13.43 kN

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39 Wind 180,Cpi 0.2,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.459	5.6	-2.58
	B	-0.328	22.5	-7.37
	C	-0.229	10.2	-2.33
WI 22	D	0.171	38.1	6.53
WI 7	A	-0.459	5.6	-2.58
	B	-0.328	22.5	-7.37
	C	-0.229	10.2	-2.33
WI 20	E	-0.173	38.1	-6.60

Average Wall Loads

Windward 0.171 kN/m²

Leeward -0.173 kN/m²

Left -0.321 kN/m²

Right -0.321 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.723	1.4	-1.02
	F	-0.723	1.4	-1.02
	G	-0.525	4.8	-2.53
	H	-0.295	30.5	-8.98
	I	-0.130	65.7	-8.54

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	-5.48	0.00	-	39589.4
St. Base.1 (Base.1)	-6.57	0.00	-	39589.4
St. 1 (1)	-1.09	0.00	-	39589.4
Total	-13.14	0.00	-	-

Total Loads

X -13.14 kN

Y 0.00 kN

Z -22.08 kN

40 Wind 180,-Cpe, All

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	A	-0.367	5.6	-2.06
	B	-0.245	22.5	-5.50
	C	-0.153	10.2	-1.55
WI 22	D	0.186	38.1	7.09
WI 7	A	-0.367	5.6	-2.06
	B	-0.245	22.5	-5.50
	C	-0.153	10.2	-1.55
WI 20	E	-0.086	38.1	-3.28

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Average Wall Loads

Windward 0.186 kN/m²
 Leeward -0.086 kN/m²
 Left -0.238 kN/m²
 Right -0.238 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.611	1.4	-0.86
	F	-0.611	1.4	-0.86
	G	-0.428	4.8	-2.06
	H	-0.214	30.5	-6.52
	I	-0.061	65.7	-4.01

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	-4.33	0.00	-	39589.4
St. Base.1 (Base.1)	-5.18	0.00	-	39589.4
St. 1 (1)	-0.86	0.00	-	39589.4
Total	-10.37	0.00	-	-

Total Loads

X -10.37 kN
 Y 0.00 kN
 Z -14.31 kN

41 Wind 270,Cpi -0.3,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	E	-0.014	38.3	-0.54
WI 22	A	-0.326	5.6	-1.83
	B	-0.182	22.5	-4.10
	C	-0.075	10.0	-0.74
WI 7	D	0.362	38.3	13.87
WI 20	A	-0.326	5.6	-1.83
	B	-0.182	22.5	-4.10
	C	-0.075	10.0	-0.74

Average Wall Loads

Windward 0.362 kN/m²
 Leeward -0.014 kN/m²
 Left -0.175 kN/m²
 Right -0.175 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.614	1.4	-0.86
	F	-0.614	1.4	-0.86
	G	-0.398	4.8	-1.93

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Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	H	-0.146	30.6	-4.49
	I	0.177	65.5	11.58

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	-6.02	20183.3	-
St. Base.1 (Base.1)	0.00	-7.21	20183.3	-
St. 1 (1)	0.00	-1.19	20183.3	-
Total	0.00	-14.41	-	-

Total Loads

X 0.00 kN

Y -14.41 kN

Z 3.44 kN

42 Wind 270,Cpi -0.3,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	E	-0.014	38.3	-0.54
WI 22	A	-0.326	5.6	-1.83
	B	-0.182	22.5	-4.10
	C	-0.075	10.0	-0.74
WI 7	D	0.362	38.3	13.87
WI 20	A	-0.326	5.6	-1.83
	B	-0.182	22.5	-4.10
	C	-0.075	10.0	-0.74

Average Wall Loads

Windward 0.362 kN/m²

Leeward -0.014 kN/m²

Left -0.175 kN/m²

Right -0.175 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.614	1.4	-0.86
	F	-0.614	1.4	-0.86
	G	-0.398	4.8	-1.93
	H	-0.146	30.6	-4.49
	I	0.033	65.5	2.17

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	-6.02	20183.3	-
St. Base.1 (Base.1)	0.00	-7.21	20183.3	-
St. 1 (1)	0.00	-1.19	20183.3	-
Total	0.00	-14.41	-	-

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Total Loads

X 0.00 kN
Y -14.41 kN
Z -5.97 kN

43 Wind 270,Cpi 0.2,+Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	E	-0.189	38.3	-7.25
WI 22	A	-0.501	5.6	-2.82
	B	-0.358	22.5	-8.04
	C	-0.250	10.0	-2.49
WI 7	D	0.187	38.3	7.17
WI 20	A	-0.501	5.6	-2.82
	B	-0.358	22.5	-8.04
	C	-0.250	10.0	-2.49

Average Wall Loads

Windward 0.187 kN/m²
Leeward -0.189 kN/m²
Left -0.350 kN/m²
Right -0.350 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.789	1.4	-1.11
	F	-0.789	1.4	-1.11
	G	-0.573	4.8	-2.78
	H	-0.322	30.6	-9.85
	I	0.002	65.5	0.12

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	-6.02	20183.3	-
St. Base.1 (Base.1)	0.00	-7.21	20183.3	-
St. 1 (1)	0.00	-1.19	20183.3	-
Total	0.00	-14.41	-	-

Total Loads

X 0.00 kN
Y -14.41 kN
Z -14.73 kN

44 Wind 270,Cpi 0.2,-Cpe

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	E	-0.189	38.3	-7.25
WI 22	A	-0.501	5.6	-2.82
	B	-0.358	22.5	-8.04

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Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 22	C	-0.250	10.0	-2.49
WI 7	D	0.187	38.3	7.17
WI 20	A	-0.501	5.6	-2.82
	B	-0.358	22.5	-8.04
	C	-0.250	10.0	-2.49

Average Wall Loads

Windward 0.187 kN/m²

Leeward -0.189 kN/m²

Left -0.350 kN/m²

Right -0.350 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.789	1.4	-1.11
	F	-0.789	1.4	-1.11
	G	-0.573	4.8	-2.78
	H	-0.322	30.6	-9.85
	I	-0.142	65.5	-9.29

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	-6.02	20183.3	-
St. Base.1 (Base.1)	0.00	-7.21	20183.3	-
St. 1 (1)	0.00	-1.19	20183.3	-
Total	0.00	-14.41	-	-

Total Loads

X 0.00 kN

Y -14.41 kN

Z -24.14 kN

45 Wind 270,-Cpe, All

Wall Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
WI 21	E	-0.094	38.3	-3.60
WI 22	A	-0.400	5.6	-2.25
	B	-0.267	22.5	-6.00
	C	-0.167	10.0	-1.66
	D	0.203	38.3	7.77
WI 20	A	-0.400	5.6	-2.25
	B	-0.267	22.5	-6.00
	C	-0.167	10.0	-1.66

Average Wall Loads

Windward 0.203 kN/m²

Leeward -0.094 kN/m²

Left -0.260 kN/m²

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Right -0.260 kN/m²

Roof Zone Loads

Reference	Zone	Nett Pressure [kN/m ²]	Area [m ²]	Applied Load [kN]
RI 7	F	-0.667	1.4	-0.94
	F	-0.667	1.4	-0.94
	G	-0.467	4.8	-2.26
	H	-0.233	30.6	-7.15
	I	-0.067	65.5	-4.37

Lateral Loads by Level

Level	Total [kN]		Centre [mm]	
	X	Y	X	Y
St. Base (Base)	0.00	-4.75	20183.3	-
St. Base.1 (Base.1)	0.00	-5.69	20183.3	-
St. 1 (1)	0.00	-0.94	20183.3	-
Total	0.00	-11.37	-	-

Total Loads

X 0.00 kN
Y -11.37 kN
Z -15.66 kN

Snow Data

No snow data found.