1 Spread footing: Foundation37 identical elements: 1

Number of

1.1 Basic data

1.1.1 Assumptions

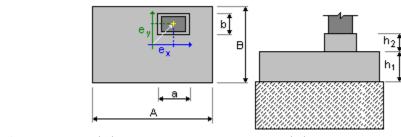
· Geotechnic calculations according to : DTU 13.12

· Concrete calculations according to : BAEL 91 mod. 99

· Foundation with lean concrete

Shape selection : without limits

1.1.2 Geometry:



A = 2.30 (m)

a = 0.66 (m)

B = 1.40 (m)

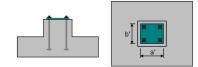
b = 0.59 (m)

h1 = 0.50 (m)

 $e_x = 0.00 \text{ (m)}$

h2 = 0.50 (m)

 $e_v = 0.00 (m)$

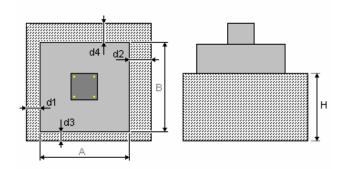


a' = 36.0 (cm)

b' = 33.0 (cm)

c1 = 5.0 (cm)

c2 = 3.0 (cm)



H = 0.10 (m)

d1 = 0.10 (m)

d2 = 0.10 (m)

d3 = 0.10 (m)

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d4 = 0.10 (m)
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1.1.3 Materials

· Concrete : BETON25; Characteristic strength = 25.00

MPa

Unit weight = 2501.36 (kG/m3)

Lean concrete : BETON20; Characteristic strength = 20.00

MPa

Unit weight = 2501.36 (kG/m3)

Longitudinal reinforcement : type HA 400 Characteristic strength

= 400.00 MPa

· Transversal reinforcement : type HA 400 Characteristic strength

= 400.00 MPa

· Additional reinforcement: : type HA 400 Characteristic strength

= 400.00 MPa

1.1.4 Loads:

Foundation loads:

Case	Nature	Group	N	Fx	Fy	Mx	My
			(kN)	(kN)	(kN)	(kN*m)	(kN*m)
DL1	dead load(Structural)	37	10.49	1.99	-0.00	0.00	3.58
1	dead load(Structural)	37	4.16	1.71	-0.00	0.00	2.91
11	dead load(Structural)	37	0.37	0.15	-0.00	0.00	0.26
111	dead load(Structural)	37	8.49	1.90	-0.00	0.00	3.44
1111	dead load(Structural)	37	0.27	-0.01	-0.00	0.00	-0.00
11111	dead load(Structural)	37	0.00	0.00	0.00	0.00	0.00
111111	live load(Category A)	37	9.78	4.03	-0.00	0.00	6.85
1111111	live load(Category A)	37	0.00	-0.00	0.00	-0.00	-0.00
2	live load(Category A)	37	0.98	0.40	-0.00	0.00	0.69
WIND1	wind	37	-10.77	1.95	0.15	-0.21	-1.43
WIND2	wind	37	-10.77	1.95	-0.15	0.21	-1.43
WIND3	wind	37	-4.34	-15.29	-0.00	0.00	-22.53
WIND4	wind	37	-5.81	1.73	0.00	-0.00	6.55
WIND5	wind	37	8.12	-9.78	-0.00	0.00	-12.90
WIND6	wind	37	7.62	6.78	0.00	-0.00	14.85

Backfill loads:

Case Nature Q1 (kN/m2)

1.1.5 Combination list

.,	
1/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111
2/	ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111
3/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.50111111+1.502
4/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111
5/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111
6/	ULS: 1.35DL1+1.351+1.35111+1.35111+1.351111+1.3511111+1.50111111+1.501111111
7/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502
8/	ULS: 1.35DL1+1.351+1.35111+1.35111+1.351111+1.3511111+1.50111111+1.502
9/	ULS: 1.35DL1+1.351+1.35111+1.35111+1.351111+1.3511111+1.50111111+1.502
10/	ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.501111111+1.502
11/	ULS: 1.00DL1+1.001+1.00111+1.001111+1.0011111+1.501111111
12/	ULS: 1.00DL1+1.001+1.00111+1.001111+1.0011111+1.5011111111
13/	ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111
14/	ULS: 1.00DL1+1.001+1.00111+1.001111+1.0011111+1.502
15/	ULS: 1.00DL1+1.001+1.00111+1.001111+1.0011111+1.50111111+1.501
16/	ULS: 1.00DL1+1.001+1.00111+1.001111+1.0011111+1.501111111+1.502
17/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND1
18/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND2
19/	ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND3
20/	ULS: 1.35DL1+1.351+1.3511+1.351111+1.3511111+1.3511111+1.80WIND4

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ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND5
        21/
        22/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND6
        23/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND1
        24/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND2
        25/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND3
        26/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND4
        27/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND5
        28/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND6
        29/
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.502+1.20WIND1
        30/
                  ULS
1.35DL1+1.351+1.3511+1.35111+1.3511111+1.3511111+1.50111111+1.50111111+1.502+1.20WIND2
        31/
                  ULS
1.35DL1+1.3511+1.35111+1.351111+1.351111+1.50111111+1.50111111+1.50111111+1.502+1.20WIND3
        32/
                  ULS
1.35DL1+1.3511+1.35111+1.351111+1.351111+1.50111111+1.50111111+1.501111111+1.502+1.20WIND4
        33/
                  ULS:
1.35DL1+1.3511+1.35111+1.351111+1.351111+1.50111111+1.50111111+1.50111111+1.502+1.20WIND5
        34/
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.3511111+1.3511111+1.50111111+1.50111111+1.502+1.20WIND6
        35/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND1
        36/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND2
        37/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND3
        38/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND4
        39/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND5
        40/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND6
        41/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND1
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND2
        42/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND3
        43/
        44/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND4
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND5
        45/
        46/
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND6
        47/
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND1
                  ULS:
        48/
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND2
                  ULS
        49/
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND3
        50/
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.501111111+1.20WIND4
                  ULS
        51/
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND5
                  ULS:
        52/
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.501111111+1.20WIND6
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND1
        53/
        54/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND2
        55/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND3
        56/
                  ULS: 1.35DL1+1.351+1.3511+1.351111+1.3511111+1.3511111+1.502+1.20WIND4
        57/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND5
        58/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND6
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND1
        59/
        60/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND2
        61/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND3
        62/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND4
        63/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND5
        64/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND6
        65/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND1
        66/
                  ULS: 1.35DL1+1.351+1.35111+1.35111+1.351111+1.3511111+1.501111111+1.502+1.20WIND2
        67/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND3
        68/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND4
        69/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND5
        70/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND6
        71/
                  ULS
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND1
        72/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.501+1.20WIND2
        73/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.501111111+1.502+1.20WIND3
        74/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND4
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75/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND5
        76/
                  ULS:
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.501111111+1.502+1.20WIND6
        77/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND1
        78/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND2
        79/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND3
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND4
        80/
        81/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND5
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND6
        82/
        83/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND1
        84/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND2
        85/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND3
        86/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND4
        87/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND5
        88/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND6
        89/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND1
        90/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND2
        91/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND3
        92/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND4
        93/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND5
        94/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND6
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND1
        95/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND2
        96/
        97/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND3
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND4
        98/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND5
        99/
        100/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND6
        101/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND1
        102/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND2
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND3
        103/
        104/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND4
        105/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND5
        106/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND6
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND1
        107/
        108/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND2
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND3
        109/
        110/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND4
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND5
        111/
        112/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND6
                  ULS:
        113/
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND1
                  ULS:
        114/
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND2
        115/
                  ULS
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND3
        116/
                  UIS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.00111111+1.002+1.80WIND4
                  ULS:
        117/
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND5
        118/
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND6
        119/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND1
        120/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND2
        121/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND3
        122/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND4
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND5
        123/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND6
        124/
        125/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND1
        126/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND2
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.001111111+1.80WIND3
        127/
        128/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND4
        129/
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.001111111+1.80WIND5
        130/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND6
```

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131/
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND1
        132/
                  ULS
1.35DL1+1.3511+1.35111+1.35111+1.3511111+1.3511111+1.00111111+1.001111111+1.80WIND2
        133/
                  ULS
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND3
        134/
                  ULS
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.001111111+1.001111111+1.80WIND4
                  ULS:
        135/
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND5
        136/
                  ULS:
1.35DL1+1.3511+1.35111+1.35111+1.3511111+1.3511111+1.00111111+1.001111111+1.80WIND6
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND1
        137/
        138/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND2
        139/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND3
        140/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND4
        141/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND5
        142/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND6
        143/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND1
        144/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND2
        145/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND3
        146/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND4
        147/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND5
        148/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND6
        149/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND1
        150/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND2
        151/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND3
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND4
        152/
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND5
        153/
        154/
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND6
                  ULS:
        155/
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+1.80WIND1
                  ULS:
        156/
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+1.002+1.80WIND2
                  ULS:
        157/
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+1.80WIND3
        158/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+1.002+1.80WIND4
        159/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+1.80WIND5
                  ULS
        160/
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+1.002+1.80WIND6
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND1
        161/
        162/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND2
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND3
        163/
        164/
                  ULS: 1.00DL1+1.001+1.0011+1.001111+1.0011111+1.0011111+1.0011111+1.80WIND4
        165/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND5
        166/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND6
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND1
        167/
        168/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND2
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND3
        169/
        170/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND4
        171/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND5
        172/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND6
                  ULS:
        173/
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND1
        174/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.001111111+1.80WIND2
        175/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.80WIND3
        176/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND4
        177/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.80WIND5
        178/
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND6
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND1
        179/
        180/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND2
        181/
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND3
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND4
        182/
```

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183/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND5
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND6
        184/
         185/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.00111111+1.00111111+1.002+1.80WIND1
        186/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+1.80WIND2
        187/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+1.80WIND3
        188/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+1.80WIND4
        189/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND5
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND6
        190/
        191/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.002+1.80WIND1
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND2
        192/
        193/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND3
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND4
        194/
        195/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND5
        196/
                   ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.002+1.80WIND6
        197/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.002
        198/
        199/
                   SLS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND1
        200/
                   SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND2
        201/
                   SLS
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND3
        202/
                   SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND4
        203/
                   SLS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND5
        204/
                   SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.001111111+1.002+0.77WIND6
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111
        205/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND1
        206/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND2
        207/
        208/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND3
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND4
        209/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND5
        210/
        211/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND6
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111
        212/
        213/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+0.77WIND1
        214/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+0.77WIND2
        215/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+0.77WIND3
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+0.77WIND4
        216/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+0.77WIND5
        217/
        218/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+0.77WIND6
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111
        219/
        220/
                   SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.00111111+0.77WIND1
        221/
                   SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND2
        222/
                   SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+0.77WIND3
        223/
                   SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND4
        224/
                   SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND5
        225/
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND6
        226/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002
        227/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND1
        228/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND2
        229/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND3
        230/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND4
        231/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND5
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND6
        232/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002
        233/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+0.77WIND1
        234/
        235/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND2
        236/
                   SLS: 1.00DL1+1.001+1.00111+1.001111+1.001111+1.0011111+1.00111111+1.002+0.77WIND3
        237/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND4
        238/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND5
        239/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+0.77WIND6
        240/
                   SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002
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241/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND1
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND2
        242/
        243/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND3
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND4
        244/
        245/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND5
        246/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND6
        247/
                  SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND1
        248/
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND2
        249/
                  SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND3
        250/
                  SLS
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND4
        251/
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND5
        252/
                  SLS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND6
        253/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND1
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND2
        254/
        255/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND3
        256/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND4
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND5
        257/
        258/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND6
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND1
        259/
        260/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND2
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND3
        261/
        262/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND4
        263/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND5
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND6
        264/
        265/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND1
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND2
        266/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND3
        267/
        268/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND4
        269/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND5
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND6
        270/
        271/
                  SLS
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.0011111+0.771111111+0.771111111+1.00WIND1
        272/
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.0011111+1.0011111+0.77111111+0.771111111+1.00WIND2
        273/
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.771111111+1.00WIND3
        274/
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+1.00WIND4
        275/
                  SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.771111111+1.00WIND5
                  SLS:
        276/
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+1.00WIND6
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND1
        277/
        278/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND2
        279/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND3
        280/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND4
        281/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND5
        282/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND6
        283/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND1
        284/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND2
        285/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND3
        286/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND4
        287/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND5
        288/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND6
        289/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND1
        290/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.7711111111+0.772+1.00WIND2
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND3
        291/
        292/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND4
        293/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND5
        294/
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND6
        295/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111
        296/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111
        297/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.50111111+1.501
        298/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111
```

```
299/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111
        300/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111
        301/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502
        302/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502
        303/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.502
        304/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.501
        305/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111
        306/*
        307/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111
        308/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502
        309/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502
        310/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502
        311/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND1
        312/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND2
        313/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND3
        314/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND4
        315/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND5
        316/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.80WIND6
        317/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND1
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND2
        318/*
        319/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND3
        320/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND4
        321/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND5
        322/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.80WIND6
        323/*
                  ULS:
1.35DL1+1.3511+1.35111+1.351111+1.3511111+1.3511111+1.501111111+1.501111111+1.502+1.20WIND1
        324/*
                  ULS
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.50111111+1.501111111+1.501+1.20WIND2
        325/
                  ULS
1.35DL1+1.351+1.3511+1.35111+1.3511111+1.3511111+1.50111111+1.50111111+1.502+1.20WIND3
        326/*
                  ULS:
1.35DL1+1.3511+1.35111+1.351111+1.3511111+1.3511111+1.501111111+1.501111111+1.502+1.20WIND4
                  ULS:
        327/*
1.35DL1+1.3511+1.35111+1.351111+1.351111+1.50111111+1.50111111+1.501111111+1.502+1.20WIND5
        328/*
                  UIS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.50111111+1.502+1.20WIND6
        329/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND1
        330/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND2
        331/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND3
        332/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND4
        333/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND5
        334/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.20WIND6
        335/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND1
        336/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND2
        337/*
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.501111111+1.20WIND3
        338/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND4
        339/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND5
        340/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.20WIND6
        341/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND1
        342/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND2
        343/*
                  UIS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND3
        344/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND4
        345/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND5
        346/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.501111111+1.20WIND6
        347/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND1
        348/*
                  ULS: 1.35DL1+1.351+1.3511+1.351111+1.3511111+1.3511111+1.502+1.20WIND2
        349/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND3
        350/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND4
        351/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND5
        352/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.502+1.20WIND6
        353/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND1
        354/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND2
        355/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND3
        356/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND4
```

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357/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND5
        358/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND6
        359/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.502+1.20WIND1
        360/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.502+1.20WIND2
        361/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.502+1.20WIND3
        362/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.502+1.20WIND4
        363/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.501111111+1.502+1.20WIND5
        364/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND6
        365/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND1
        366/*
                  ULS
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.501111111+1.502+1.20WIND2
        367/*
                  ULS
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND3
        368/*
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND4
        369/*
                  ULS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.502+1.20WIND5
        370/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.501111111+1.502+1.20WIND6
        371/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND1
        372/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND2
        373/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND3
        374/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND4
        375/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND5
        376/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.20WIND6
        377/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND1
        378/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND2
        379/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND3
        380/*
                  ULS: 1.00DL1+1.001+1.0011+1.001111+1.001111+1.50111111+1.50111111+1.20WIND4
        381/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND5
        382/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.20WIND6
        383/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.501111111+1.20WIND1
        384/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.501111111+1.20WIND2
        385/
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND3
        386/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.501111111+1.20WIND4
                  ULS
        387/
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.501111111+1.20WIND5
        388/*
                  UIS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.501111111+1.20WIND6
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND1
        389/*
        390/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND2
        391/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND3
        392/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND4
        393/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND5
        394/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.502+1.20WIND6
        395/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND1
        396/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND2
        397/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND3
        398/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND4
        399/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND5
        400/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.50111111+1.502+1.20WIND6
        401/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND1
        402/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND2
        403/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND3
        404/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND4
        405/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND5
        406/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.501111111+1.502+1.20WIND6
        407/*
                  ULS
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND1
        408/*
                  ULS
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND2
        409/*
                  ULS
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND3
        410/*
                  ULS
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.00111111+1.002+1.80WIND4
```

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411/*
                  UIS:
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND5
        412/*
                  ULS
1.35DL1+1.351+1.35111+1.351111+1.351111+1.3511111+1.00111111+1.001111111+1.002+1.80WIND6
        413/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND1
        414/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND2
        415/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND3
        416/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND4
        417/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND5
        418/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.80WIND6
        419/*
                  ULS: 1.35DL1+1.351+1.35111+1.35111+1.351111+1.3511111+1.001111111+1.80WIND1
        420/*
                  ULS: 1.35DL1+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND2
        421/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND3
        422/*
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.001111111+1.80WIND4
        423/*
                  ULS: 1.35DL1+1.351+1.35111+1.351111+1.3511111+1.001111111+1.80WIND5
        424/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.80WIND6
        425/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND1
        426/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND2
        427/*
                  ULS
1.35DL1+1.3511+1.35111+1.35111+1.3511111+1.3511111+1.001111111+1.001111111+1.80WIND3
        428/*
                  ULS
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND4
        429/*
                  ULS:
1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.001111111+1.80WIND5
        430/*
                  ULS
1.35DL1+1.3511+1.35111+1.35111+1.3511111+1.3511111+1.00111111+1.001111111+1.80WIND6
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND1
        431/*
        432/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.351111+1.002+1.80WIND2
        433/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND3
        434/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND4
        435/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND5
        436/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.002+1.80WIND6
        437/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND1
        438/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND2
        439/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND3
        440/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND4
        441/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND5
        442/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND6
        443/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND1
        444/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND2
        445/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND3
        446/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND4
        447/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND5
        448/*
                  ULS: 1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.001111111+1.002+1.80WIND6
        449/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+1.80WIND1
        450/*
                  ULS:
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+1.002+1.80WIND2
        451/*
                  ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.001111111+1.002+1.80WIND3
        452/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+1.80WIND4
        453/*
                  ULS:
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+1.002+1.80WIND5
        454/*
                  ULS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+1.80WIND6
        455/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND1
        456/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND2
        457/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND3
        458/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND4
        459/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND5
        460/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND6
        461/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND1
        462/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND2
        463/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND3
        464/*
                  465/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND5
        466/*
                  ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.80WIND6
```

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467/*
                            UIS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND1
            468/*
                            ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.80WIND2
            469/*
                            ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND3
            470/*
                            ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.80WIND4
                            ULS:
            471/*
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.80WIND5
            472/*
                            ULS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND6
            473/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND1
            474/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND2
            475/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND3
            476/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND4
            477/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND5
            478/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+1.80WIND6
            479/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.00111111+1.00111111+1.002+1.80WIND1
            480/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+1.80WIND2
            481/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+1.80WIND3
            482/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+1.80WIND4
            483/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+1.80WIND5
            484/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+1.80WIND6
            485/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.002+1.80WIND1
            486/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.002+1.80WIND2
            487/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.002+1.80WIND3
            488/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND4
            489/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+1.80WIND5
            490/*
                            ULS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+1.80WIND6
            491/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111
            492/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.001
            493/*
                            SLS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND1
            494/*
                            SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND2
            495/
                            SLS
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.00111111+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001+1.001
            496/*
                            SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND4
            497/
                            SLS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND5
            498/*
                            SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.002+0.77WIND6
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111
            499/*
            500/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND1
            501/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND2
            502/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND3
            503/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.0011111+0.77WIND4
            504/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND5
            505/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+0.77WIND6
            506/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.001111111
            507/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.001111111+0.77WIND1
            508/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+0.77WIND2
            509/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+0.77WIND3
            510/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+0.77WIND4
            511/*
                            SLS: 1.00DL1+1.001+1.0011+1.001111+1.0011111+1.0011111+1.00111111+1.77WIND5
            512/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111110
            513/*
                            SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.001111111
            514/*
                            SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND1
            515/*
                            SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.001111111+1.001111111+0.77WIND2
            516/*
                            SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.001111111+0.77WIND3
            517/*
                            SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND4
            518/
                            SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+0.77WIND5
            519/*
                            SLS:
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1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.00111111+1.001111111+0.77WIND6
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002
        520/*
        521/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND1
        522/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND2
        523/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND3
        524/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND4
        525/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND5
        526/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.002+0.77WIND6
        527/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002
        528/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND1
        529/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+0.77WIND2
        530/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND3
        531/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND4
        532/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+0.77WIND5
        533/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002+0.77WIND6
        534/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.002
        535/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND1
        536/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND2
        537/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.002+0.77WIND3
        538/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND4
        539/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.00111111+1.002+0.77WIND5
        540/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.0011111+1.00111111+1.002+0.77WIND6
        541/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND1
        542/*
                  SLS:
1.00DL1+1.001+1.00111+1.001111+1.0011111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND2
        543/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND3
        544/*
                  SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND4
        545/*
                  SLS:
1.00DL1+1.001+1.00111+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND5
        546/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+0.772+1.00WIND6
        547/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND1
        548/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND2
        549/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND3
        550/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND4
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND5
        551/*
        552/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00WIND6
        553/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND1
        554/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND2
        555/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND3
        556/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND4
        557/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND5
        558/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+1.00WIND6
        559/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND1
        560/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND2
        561/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND3
        562/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND4
        563/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND5
        564/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+1.00WIND6
        565/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.771111111+1.00WIND1
                  SLS:
        566/*
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+1.00WIND2
        567/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+1.00WIND3
        568/*
                  SLS
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+1.00WIND4
        569/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.0011111+1.0011111+0.77111111+0.771111111+1.00WIND5
        570/*
                  SLS:
1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.771111111+1.00WIND6
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND1
        571/*
        572/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND2
        573/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND3
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND4
        574/*
        575/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND5
        576/*
                  SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.772+1.00WIND6
```

```
577/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND1
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND2
578/*
579/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND3
580/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND4
581/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND5
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.77111111+0.772+1.00WIND6
582/*
583/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND1
584/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND2
585/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND3
586/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND4
587/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND5
588/*
          SLS: 1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND6
```

1.2 Geotechnical design

1.2.1 Assumptions

Foundation design for:

- Capacity
- Sliding
- Rotation
- Uplift

1.2.2 Soil:

Stresses in soil: $\sigma_{ULS} = 0.07 \text{ (MPa)} \quad \sigma_{SLS} = 0.05 \text{ (MPa)}$

Soil level: $N_1 = 0.00 \text{ (m)}$ Column pier level: $N_a = 0.00 \text{ (m)}$ Minimum reference level: $N_f = -1.20 \text{ (m)}$

Argiles et limons fermes

• Soil level: 0.00 (m)

Unit weight: 2039.43 (kG/m3)

Unit weight of solid: 2692.05 (kG/m3)
Internal friction angle: 30.0 (Deg)

· Cohesion: 0.02 (MPa)

1.2.3 Limit states

Lean concrete stability analysis

Stress calculations

Attention - the selected soil database does not correspond to the geotechnical code. The calculations have been performed based on the default soil types.

Soil type under foundation: not layered Design combination ULS:

1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.50111111+1.502+1.20WIND6

Load factors: 1.35 * Foundation weight

1.35 * Soil weight

Calculation results: On the foundation level

Weight of foundation and soil over it: Gr = 111.22 (kN)

Design load:

Nr = 168.60 (kN) Mx = -0.00 (kN*m) My = 65.43 (kN*m)

Equivalent foundation dimensions:

B' = 1

```
L' = 1
```

Foundation depth: Dmin = 1.10 (m)

Allowable stress calculation method: Stress pressiometric (DTU 13.12, 3.22)

qu = 0.15 (MPa)

Design soil pressure:

qlim = qu / γ f = 0.07 (MPa) γ f = 2.00

Stress in soil: qref = 0.06 (MPa)

Safety factor: qlim / qref = 1.214 > 1

Uplift

Uplift in ULS

Design combination ULS:

1.00DL1+1.001+1.0011+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND3

Load factors: 1.00 * Foundation weight

1.00 * Soil weight

Weight of foundation and soil over it: Gr = 82.39 (kN)

Design load:

Nr = 98.34 (kN) Mx = -0.00 (kN*m) My = -54.31 (kN*m)

Contact area s = 83.74 (%) Slim = 10.00 (%)

Uplift in SLS

Design combination: SLS:

1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+0.771111111+0.772+1.00WIND6

Load factors: **1.00** * Foundation weight

1.00 * Soil weight

Weight of foundation and soil over it: Gr = 82.39 (kN)

Design load:

Nr = 114.54 (kN) Mx = -0.00 (kN*m) My = 39.69 (kN*m)

Contact area s = 100.00 (%)

 $s_{lim} = 100.00 (\%)$

Sliding

Design combination ULS:

1.00DL1+1.001+1.0011+1.001111+1.0011111+1.00111111+1.001111111+1.80WIND3

Load factors: 1.00 * Foundation weight

1.00 * Soil weight

Weight of foundation and soil over it: Gr = 82.39 (kN)

Design load:

Mr = 98.34 (kN) Mx = -0.00 (kN*m) My = -52.13 (kN*m)

Equivalent foundation dimensions: A = 2.30 (m) B = 1.40 (m)

Sliding area: 2.60 (m2) Cohesion: C = 0.02 (MPa)

Foundation/soil friction coefficient: f = 0.58Sliding force value F = 21.77 (kN) Value of force preventing foundation sliding:

On the formulation level (Flatab) 404 05 (

- On the foundation level: F(stab) = 101.25 (kN)

Stabilility for sliding: 4.651 > 1

Rotation

About OX axis

Design combination ULS:

1.00DL1+1.001+1.0011+1.00111+1.001111+1.0011111+1.00111111+1.80WIND1

Load factors: 1.00 * Foundation weight

1.00 * Soil weight

Weight of foundation and soil over it: Gr = 82.39 (kN)

Design load:

Nr = 86.78 (kN) Mx = -0.66 (kN*m) My = 16.86 (kN*m)

Stability moment: $M_{Stab} = 81.90 \text{ (kN*m)}$ Rotation moment: $M_{renv} = 0.68 \text{ (kN*m)}$

Stability for rotation: 119.8 > 1

About OY axis

Design combination: ULS:

1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND6

Load factors: 1.00 * Foundation weight

1.00 * Soil weight Weight of foundation and soil over it: Gr = 82.39 (kN)

Design load:

Nr = 138.96 (kN) Mx = 0.00 (kN*m) My = 72.43 (kN*m)

Stability moment: $M_{Stab} = 193.20 \text{ (kN*m)}$ Rotation moment: $M_{renv} = 74.87 \text{ (kN*m)}$

Stability for rotation: 2.581 > 1

Foundation stability analysis

Stress calculations

Design combination ULS:

1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.50111111+1.502+1.20WIND6

Load factors: 1.35 * Foundation weight

1.35 * Soil weight

Weight of foundation and soil over it: Gr = 97.98 (kN)

Design load:

Nr = 155.36 (kN) Mx = 0.00 (kN*m) My = 65.43 (kN*m)

Stress in soil: 0.10 (MPa)

Safety factor: 131.4 > 1

1.3 RC design

1.3.1 Assumptions

Cracking : limitedExposure : mild

· Include element sensitivity condition for fragile failure: yes

1.3.2 Analysis of punching and shear

Shear

Design combination ULS:

1.35DL1+1.351+1.3511+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND6

Load factors: 1.00 * Foundation weight

1.00 * Soil weight

Design load:

Nr = 129.15 (kN) Mx = 0.00 (kN*m) My = 72.43 (kN*m)

Length of critical circumference:1.40 (m)Shear force:36.93 (kN)Section effective heightheff = 0.44 (m)Shear area:A = 0.62 (m2)Shear stress:0.06 (MPa)Admissible shear stress:1.17 (MPa)Safety factor:19.46 > 1

1.3.3 Required reinforcement

Spread footing:

bottom:

ULS:

1.35DL1+1.351+1.35111+1.351111+1.3511111+1.00111111+1.002+1.80WIND6

My = 36.60 (kN*m) $A_{sx} = 4.84 (cm2/m)$

ULS:

1.35 DL1 + 1.351 + 1.35111 + 1.351111 + 1.3511111 + 1.501111111 + 1.501111111 + 1.502 + 1.20 WIND5

Mx = 5.22 (kN*m) $A_{sy} = 4.84 (cm2/m)$

 $A_{s min} = 4.40 (cm2/m)$

top:

 $A'_{sx} = 0.00 \text{ (cm2/m)}$ $A'_{sv} = 0.00 \text{ (cm2/m)}$

 $A_{s min} = 0.00 (cm2/m)$

Maximum code-specified spacing $e_{max} = 0.25 (m)$

Column pier:

Longitudinal reinforcement A = 10.00 (cm2) A $_{min.}$ = 10.00 (cm2)

A = 2 * (Asx + Asy)

Asx = 4.63 (cm2) Asy = 0.37 (cm2)

Splice reinforcement (foundation to lean concrete): A = 2.91 (cm2)

1.3.4 Provided reinforcement

2.3.1 Spread footing:

Bottom:

Along X axis:

9 HA 400 10 I = 2.20 (m) e = 1*-0.59 + 8*0.15

Along Y axis:

15 HA 400 10 I = 1.30 (m) e = 1*-1.05 + 14*0.15

Top:

2.3.2 Pier

Longitudinal reinforcement

Along Y axis:

12 HA 400 12 I = 1.08 (m) e = 1*-0.25 + 5*0.10

Transversal reinforcement

6 HA 400 10 I = 2.46 (m) e = 1*0.18 + 3*0.20 + 2*0.09

Splice reinforcement

12 HA 400 12 I = 0.68 (m) $e_x = 0.65$ $e_y = 1*-0.66 + 1*0.66 + 1*0.65$

2 **Material survey:**

Concrete volume = 1.80 (m3)
 Lean concrete volume = 0.40 (m3)

Formwork = 4.95 (m2)

· Steel HA 400

Total weightDensity = 52.06 (kG)= 28.85 (kG/m3)· Average diameter = 10.6 (mm)

· Survey according to diameters:

Diameter	Length	Weight		
	(m)	(kG)		
10	54.03	33.33		
12	21.09	18.73		