

PILE SECTION TENSION RESISTANCE RESULTS for ZONE 1

POT Data and Tests

Number of POT Tests: 5

POT Data: [16, 13.5, 16, 19.5, 16.5]

Design Values

R_t_m_mean: 16.30kN

R_t_m_min: 13.50kN

R_t_k_characteristic: 13.28kN

R_t_design_R1: 13.28kN

R_t_design_R4_without_SLS: 6.64kN

R_t_design_R4_with_SLS: 7.81kN

ADDITIONAL SECTIONS RESULTS

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_t_R1 for Section 1: 41.87kN

R_t_R4_without_SLS for Section 1: 20.93kN

R_t_R4_with_SLS for Section 1: 24.63kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_t_R1 for Section 2: 36.09kN

R_t_R4_without_SLS for Section 2: 18.05kN

R_t_R4_with_SLS for Section 2: 21.23kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_t_R1 for Section 3: 32.48kN

R_t_R4_without_SLS for Section 3: 16.24kN

R_t_R4_with_SLS for Section 3: 19.11kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_t_R1 for Section 4: 28.15kN

R_t_R4_without_SLS for Section 4: 14.08kN

R_t_R4_with_SLS for Section 4: 16.56kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_t_R1 for Section 5: 23.10kN

R_t_R4_without_SLS for Section 5: 11.55kN

R_t_R4_with_SLS for Section 5: 13.59kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_t_R1 for Section 6: 19.49kN

R_t_R4_without_SLS for Section 6: 9.74kN

R_t_R4_with_SLS for Section 6: 11.46kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{t_R1} for Section 7: 13.28kN

$R_{t_R4_without_SLS}$ for Section 7: 6.64kN

$R_{t_R4_with_SLS}$ for Section 7: 7.81kN

PILE SECTION TENSION RESISTANCE RESULTS for ZONE 2

POT Data and Tests

Number of POT Tests: 5

POT Data: [25, 15, 12.5, 12, 15]

Design Values

R_t_m_mean: 15.90kN

R_t_m_min: 12.00kN

R_t_k_characteristic: 12.00kN

R_t_design_R1: 12.00kN

R_t_design_R4_without_SLS: 6.00kN

R_t_design_R4_with_SLS: 7.06kN

ADDITIONAL SECTIONS RESULTS

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_t_R1 for Section 1: 37.83kN

R_t_R4_without_SLS for Section 1: 18.91kN

R_t_R4_with_SLS for Section 1: 22.25kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_t_R1 for Section 2: 32.61kN

R_tR₄without_SLS for Section 2: 16.30kN

R_tR₄with_SLS for Section 2: 19.18kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_tR₁ for Section 3: 29.35kN

R_tR₄without_SLS for Section 3: 14.67kN

R_tR₄with_SLS for Section 3: 17.26kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_tR₁ for Section 4: 25.43kN

R_tR₄without_SLS for Section 4: 12.72kN

R_tR₄with_SLS for Section 4: 14.96kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_tR₁ for Section 5: 20.87kN

R_tR₄without_SLS for Section 5: 10.43kN

R_tR₄with_SLS for Section 5: 12.28kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_tR₁ for Section 6: 17.61kN

R_tR₄without_SLS for Section 6: 8.80kN

R_tR₄with_SLS for Section 6: 10.36kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{t_R1} for Section 7: 12.00kN

$R_{t_R4_without_SLS}$ for Section 7: 6.00kN

$R_{t_R4_with_SLS}$ for Section 7: 7.06kN

PILE SECTION TENSION RESISTANCE RESULTS for ZONE 3

POT Data and Tests

Number of POT Tests: 5

POT Data: [25, 20, 25, 25, 15]

Design Values

R_t_m_mean: 22.00kN

R_t_m_min: 15.00kN

R_t_k_characteristic: 15.00kN

R_t_design_R1: 15.00kN

R_t_design_R4_without_SLS: 7.50kN

R_t_design_R4_with_SLS: 8.82kN

ADDITIONAL SECTIONS RESULTS

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_t_R1 for Section 1: 47.28kN

R_t_R4_without_SLS for Section 1: 23.64kN

R_t_R4_with_SLS for Section 1: 27.81kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_t_R1 for Section 2: 40.76kN

R_t_R4_without_SLS for Section 2: 20.38kN

R_t_R4_with_SLS for Section 2: 23.98kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_t_R1 for Section 3: 36.68kN

R_t_R4_without_SLS for Section 3: 18.34kN

R_t_R4_with_SLS for Section 3: 21.58kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_t_R1 for Section 4: 31.79kN

R_t_R4_without_SLS for Section 4: 15.90kN

R_t_R4_with_SLS for Section 4: 18.70kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_t_R1 for Section 5: 26.09kN

R_t_R4_without_SLS for Section 5: 13.04kN

R_t_R4_with_SLS for Section 5: 15.35kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_t_R1 for Section 6: 22.01kN

R_t_R4_without_SLS for Section 6: 11.01kN

R_t_R4_with_SLS for Section 6: 12.95kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{t_R1} for Section 7: 15.00kN

$R_{t_R4_without_SLS}$ for Section 7: 7.50kN

$R_{t_R4_with_SLS}$ for Section 7: 8.82kN

PILE SECTION TENSION RESISTANCE RESULTS for ZONE 4

POT Data and Tests

Number of POT Tests: 5

POT Data: [20, 16, 12.5, 20, 15]

Design Values

R_t_m_mean: 16.70kN

R_t_m_min: 12.50kN

R_t_k_characteristic: 12.50kN

R_t_design_R1: 12.50kN

R_t_design_R4_without_SLS: 6.25kN

R_t_design_R4_with_SLS: 7.35kN

ADDITIONAL SECTIONS RESULTS

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_t_R1 for Section 1: 39.40kN

R_t_R4_without_SLS for Section 1: 19.70kN

R_t_R4_with_SLS for Section 1: 23.18kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_t_R1 for Section 2: 33.97kN

R_t_R4_without_SLS for Section 2: 16.98kN

R_t_R4_with_SLS for Section 2: 19.98kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_t_R1 for Section 3: 30.57kN

R_t_R4_without_SLS for Section 3: 15.29kN

R_t_R4_with_SLS for Section 3: 17.98kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_t_R1 for Section 4: 26.49kN

R_t_R4_without_SLS for Section 4: 13.25kN

R_t_R4_with_SLS for Section 4: 15.59kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_t_R1 for Section 5: 21.74kN

R_t_R4_without_SLS for Section 5: 10.87kN

R_t_R4_with_SLS for Section 5: 12.79kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_t_R1 for Section 6: 18.34kN

R_t_R4_without_SLS for Section 6: 9.17kN

R_t_R4_with_SLS for Section 6: 10.79kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{t_R1} for Section 7: 12.50kN

$R_{t_R4_without_SLS}$ for Section 7: 6.25kN

$R_{t_R4_with_SLS}$ for Section 7: 7.35kN

PILE SECTION LATERAL RESISTANCE RESULTS for ZONE 1

POT Data and Tests

Number of POT Tests: 5

POT Data: [5, 5, 5, 5, 5]

Design Values

R_I_m_mean: 5.00kN

R_I_m_min: 5.00kN

R_I_k_characteristic: 4.07kN

R_I_design_R1: 4.07kN

R_I_design_R4_without_SLS: 2.72kN

R_I_design_R4_with_SLS: 2.72kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_I_R1 for Section 1: 12.73kN

R_I_R4_without_SLS for Section 1: 8.49kN

R_I_R4_with_SLS for Section 1: 8.49kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_I_R1 for Section 2: 10.19kN

R_I_R4_without_SLS for Section 2: 6.79kN

R_I_R4_with_SLS for Section 2: 6.79kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_I_R1 for Section 3: 9.17kN

R_I_R4_without_SLS for Section 3: 6.11kN

R_I_R4_with_SLS for Section 3: 6.11kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_I_R1 for Section 4: 8.15kN

R_I_R4_without_SLS for Section 4: 5.43kN

R_I_R4_with_SLS for Section 4: 5.43kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_I_R1 for Section 5: 7.13kN

R_I_R4_without_SLS for Section 5: 4.75kN

R_I_R4_with_SLS for Section 5: 4.75kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_I_R1 for Section 6: 6.11kN

R_I_R4_without_SLS for Section 6: 4.07kN

R_I_R4_with_SLS for Section 6: 4.07kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_I_R1 for Section 7: 4.07kN

R_I_R4_without_SLS for Section 7: 2.72kN

R_I_R4_with_SLS for Section 7: 2.72kN

PILE SECTION LATERAL RESISTANCE RESULTS for ZONE 2

POT Data and Tests

Number of POT Tests: 5

POT Data: [5, 5, 5, 5, 5]

Design Values

R_I_m_mean: 5.00kN

R_I_m_min: 5.00kN

R_I_k_characteristic: 4.07kN

R_I_design_R1: 4.07kN

R_I_design_R4_without_SLS: 2.72kN

R_I_design_R4_with_SLS: 2.72kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_I_R1 for Section 1: 12.73kN

R_I_R4_without_SLS for Section 1: 8.49kN

R_I_R4_with_SLS for Section 1: 8.49kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_I_R1 for Section 2: 10.19kN

R_I_R4_without_SLS for Section 2: 6.79kN

R_I_R4_with_SLS for Section 2: 6.79kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_I_R1 for Section 3: 9.17kN

R_I_R4_without_SLS for Section 3: 6.11kN

R_I_R4_with_SLS for Section 3: 6.11kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_I_R1 for Section 4: 8.15kN

R_I_R4_without_SLS for Section 4: 5.43kN

R_I_R4_with_SLS for Section 4: 5.43kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_I_R1 for Section 5: 7.13kN

R_I_R4_without_SLS for Section 5: 4.75kN

R_I_R4_with_SLS for Section 5: 4.75kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_I_R1 for Section 6: 6.11kN

R_I_R4_without_SLS for Section 6: 4.07kN

R_I_R4_with_SLS for Section 6: 4.07kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_I_R1 for Section 7: 4.07kN

R_I_R4_without_SLS for Section 7: 2.72kN

R_I_R4_with_SLS for Section 7: 2.72kN

PILE SECTION LATERAL RESISTANCE RESULTS for ZONE 3

POT Data and Tests

Number of POT Tests: 5

POT Data: [5, 5, 5, 5, 7.5]

Design Values

R_I_m_mean: 5.50kN

R_I_m_min: 5.00kN

R_I_k_characteristic: 4.48kN

R_I_design_R1: 4.48kN

R_I_design_R4_without_SLS: 2.99kN

R_I_design_R4_with_SLS: 2.99kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_I_R1 for Section 1: 14.00kN

R_I_R4_without_SLS for Section 1: 9.34kN

R_I_R4_with_SLS for Section 1: 9.34kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_I_R1 for Section 2: 11.20kN

R_I_R4_without_SLS for Section 2: 7.47kN

R_I_R4_with_SLS for Section 2: 7.47kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_I_R1 for Section 3: 10.08kN

R_I_R4_without_SLS for Section 3: 6.72kN

R_I_R4_with_SLS for Section 3: 6.72kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_I_R1 for Section 4: 8.96kN

R_I_R4_without_SLS for Section 4: 5.98kN

R_I_R4_with_SLS for Section 4: 5.98kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_I_R1 for Section 5: 7.84kN

R_I_R4_without_SLS for Section 5: 5.23kN

R_I_R4_with_SLS for Section 5: 5.23kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_I_R1 for Section 6: 6.72kN

R_I_R4_without_SLS for Section 6: 4.48kN

R_I_R4_with_SLS for Section 6: 4.48kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_I_R1 for Section 7: 4.48kN

R_I_R4_without_SLS for Section 7: 2.99kN

R_I_R4_with_SLS for Section 7: 2.99kN

PILE SECTION LATERAL RESISTANCE RESULTS for ZONE 4

POT Data and Tests

Number of POT Tests: 5

POT Data: [7.5, 7.5, 5, 5, 7.5]

Design Values

R_I_m_mean: 6.50kN

R_I_m_min: 5.00kN

R_I_k_characteristic: 5.00kN

R_I_design_R1: 5.00kN

R_I_design_R4_without_SLS: 3.33kN

R_I_design_R4_with_SLS: 3.33kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_I_R1 for Section 1: 15.62kN

R_I_R4_without_SLS for Section 1: 10.42kN

R_I_R4_with_SLS for Section 1: 10.42kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_I_R1 for Section 2: 12.50kN

R_I_R4_without_SLS for Section 2: 8.33kN

R_I_R4_with_SLS for Section 2: 8.33kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_I_R1 for Section 3: 11.25kN

R_I_R4_without_SLS for Section 3: 7.50kN

R_I_R4_with_SLS for Section 3: 7.50kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_I_R1 for Section 4: 10.00kN

R_I_R4_without_SLS for Section 4: 6.67kN

R_I_R4_with_SLS for Section 4: 6.67kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_I_R1 for Section 5: 8.75kN

R_I_R4_without_SLS for Section 5: 5.83kN

R_I_R4_with_SLS for Section 5: 5.83kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_I_R1 for Section 6: 7.50kN

R_I_R4_without_SLS for Section 6: 5.00kN

R_I_R4_with_SLS for Section 6: 5.00kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{I_R1} for Section 7: 5.00kN

$R_{I_R4_without_SLS}$ for Section 7: 3.33kN

$R_{I_R4_with_SLS}$ for Section 7: 3.33kN

PILE SECTION COMPRESSION RESISTANCE RESULTS for ZONE 1

POT Data and Tests

Number of POT Tests: 5

POT Data: [16, 13.5, 16, 19.5, 16.5]

Design Values

R_c_m_mean: 16.30kN

R_c_m_min: 13.50kN

R_c_k_characteristic: 13.28kN

R_c_design_R1: 13.28kN

R_c_design_R4_without_SLS: 8.85kN

R_c_design_R4_with_SLS: 10.22kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_c_R1 for Section 1: 41.87kN

R_c_R4_without_SLS for Section 1: 27.91kN

R_c_R4_with_SLS for Section 1: 32.20kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_c_R1 for Section 2: 36.09kN

R_c_R4_without_SLS for Section 2: 24.06kN

R_c_R4_with_SLS for Section 2: 27.76kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_c_R1 for Section 3: 32.48kN

R_c_R4_without_SLS for Section 3: 21.65kN

R_c_R4_with_SLS for Section 3: 24.99kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_c_R1 for Section 4: 28.15kN

R_c_R4_without_SLS for Section 4: 18.77kN

R_c_R4_with_SLS for Section 4: 21.65kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_c_R1 for Section 5: 23.10kN

R_c_R4_without_SLS for Section 5: 15.40kN

R_c_R4_with_SLS for Section 5: 17.77kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_c_R1 for Section 6: 19.49kN

R_c_R4_without_SLS for Section 6: 12.99kN

R_c_R4_with_SLS for Section 6: 14.99kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{c_R1} for Section 7: 13.28kN

$R_{c_R4_without_SLS}$ for Section 7: 8.85kN

$R_{c_R4_with_SLS}$ for Section 7: 10.22kN

PILE SECTION COMPRESSION RESISTANCE RESULTS for ZONE 2

POT Data and Tests

Number of POT Tests: 5

POT Data: [25, 15, 12.5, 12, 15]

Design Values

R_c_m_mean: 15.90kN

R_c_m_min: 12.00kN

R_c_k_characteristic: 12.00kN

R_c_design_R1: 12.00kN

R_c_design_R4_without_SLS: 8.00kN

R_c_design_R4_with_SLS: 9.23kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area
= 0.58m²

R_c_R1 for Section 1: 37.83kN

R_c_R4_without_SLS for Section 1: 25.22kN

R_c_R4_with_SLS for Section 1: 29.10kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area
= 0.5m²

R_c_R1 for Section 2: 32.61kN

R_c_R4_without_SLS for Section 2: 21.74kN

R_c_R4_with_SLS for Section 2: 25.08kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_c_R1 for Section 3: 29.35kN

R_c_R4_without_SLS for Section 3: 19.57kN

R_c_R4_with_SLS for Section 3: 22.58kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_c_R1 for Section 4: 25.43kN

R_c_R4_without_SLS for Section 4: 16.96kN

R_c_R4_with_SLS for Section 4: 19.57kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_c_R1 for Section 5: 20.87kN

R_c_R4_without_SLS for Section 5: 13.91kN

R_c_R4_with_SLS for Section 5: 16.05kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_c_R1 for Section 6: 17.61kN

R_c_R4_without_SLS for Section 6: 11.74kN

R_c_R4_with_SLS for Section 6: 13.55kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{c_R1} for Section 7: 12.00kN

$R_{c_R4_without_SLS}$ for Section 7: 8.00kN

$R_{c_R4_with_SLS}$ for Section 7: 9.23kN

PILE SECTION COMPRESSION RESISTANCE RESULTS for ZONE 3

POT Data and Tests

Number of POT Tests: 5

POT Data: [25, 20, 25, 25, 15]

Design Values

R_c_m_mean: 22.00kN

R_c_m_min: 15.00kN

R_c_k_characteristic: 15.00kN

R_c_design_R1: 15.00kN

R_c_design_R4_without_SLS: 10.00kN

R_c_design_R4_with_SLS: 11.54kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_c_R1 for Section 1: 47.28kN

R_c_R4_without_SLS for Section 1: 31.52kN

R_c_R4_with_SLS for Section 1: 36.37kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_c_R1 for Section 2: 40.76kN

R_c_R4_without_SLS for Section 2: 27.17kN

R_c_R4_with_SLS for Section 2: 31.35kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_c_R1 for Section 3: 36.68kN

R_c_R4_without_SLS for Section 3: 24.46kN

R_c_R4_with_SLS for Section 3: 28.22kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_c_R1 for Section 4: 31.79kN

R_c_R4_without_SLS for Section 4: 21.20kN

R_c_R4_with_SLS for Section 4: 24.46kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_c_R1 for Section 5: 26.09kN

R_c_R4_without_SLS for Section 5: 17.39kN

R_c_R4_with_SLS for Section 5: 20.07kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_c_R1 for Section 6: 22.01kN

R_c_R4_without_SLS for Section 6: 14.67kN

R_c_R4_with_SLS for Section 6: 16.93kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{c_R1} for Section 7: 15.00kN

$R_{c_R4_without_SLS}$ for Section 7: 10.00kN

$R_{c_R4_with_SLS}$ for Section 7: 11.54kN

PILE SECTION COMPRESSION RESISTANCE RESULTS for ZONE 4

POT Data and Tests

Number of POT Tests: 5

POT Data: [20, 16, 12.5, 20, 15]

Design Values

R_c_m_mean: 16.70kN

R_c_m_min: 12.50kN

R_c_k_characteristic: 12.50kN

R_c_design_R1: 12.50kN

R_c_design_R4_without_SLS: 8.33kN

R_c_design_R4_with_SLS: 9.62kN

Lateral Resistance Results

C Section 1: CSection: Width A = 250, Depth B = 110, Flange Length C = 55, Thickness T = 12, Surface area = 0.58m²

R_c_R1 for Section 1: 39.40kN

R_c_R4_without_SLS for Section 1: 26.27kN

R_c_R4_with_SLS for Section 1: 30.31kN

C Section 2: CSection: Width A = 200, Depth B = 100, Flange Length C = 50, Thickness T = 10, Surface area = 0.5m²

R_c_R1 for Section 2: 33.97kN

R_c_R4_without_SLS for Section 2: 22.64kN

R_c_R4_with_SLS for Section 2: 26.13kN

C Section 3: CSection: Width A = 180, Depth B = 90, Flange Length C = 45, Thickness T = 9, Surface area = 0.45m²

R_c_R1 for Section 3: 30.57kN

R_c_R4_without_SLS for Section 3: 20.38kN

R_c_R4_with_SLS for Section 3: 23.52kN

C Section 4: CSection: Width A = 160, Depth B = 80, Flange Length C = 35, Thickness T = 7, Surface area = 0.39m²

R_c_R1 for Section 4: 26.49kN

R_c_R4_without_SLS for Section 4: 17.66kN

R_c_R4_with_SLS for Section 4: 20.38kN

C Section 5: CSection: Width A = 140, Depth B = 60, Flange Length C = 30, Thickness T = 5, Surface area = 0.32m²

R_c_R1 for Section 5: 21.74kN

R_c_R4_without_SLS for Section 5: 14.49kN

R_c_R4_with_SLS for Section 5: 16.72kN

C Section 6: CSection: Width A = 120, Depth B = 50, Flange Length C = 25, Thickness T = 5, Surface area = 0.27m²

R_c_R1 for Section 6: 18.34kN

R_c_R4_without_SLS for Section 6: 12.23kN

R_c_R4_with_SLS for Section 6: 14.11kN

C Section 7: CSection: Width $A = 80$, Depth $B = 40$, Flange Length $C = 12$, Thickness $T = 3$, Surface area =
 0.184m^2

R_{c_R1} for Section 7: 12.50kN

$R_{c_R4_without_SLS}$ for Section 7: 8.33kN

$R_{c_R4_with_SLS}$ for Section 7: 9.62kN