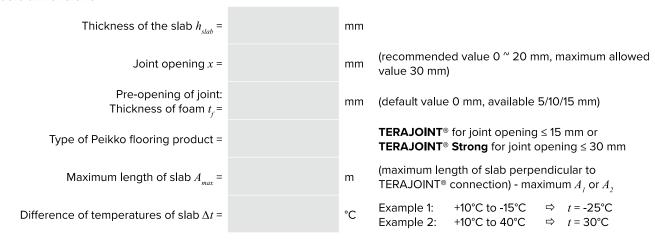
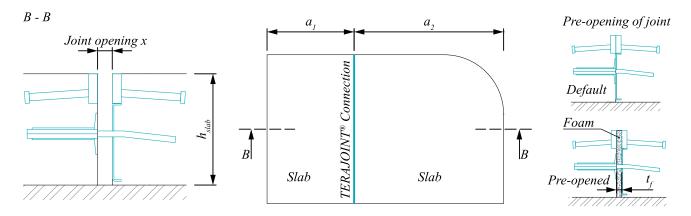
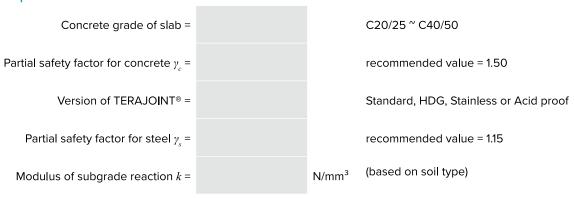
Appendix A – TERAJOINT® Design form

Basic dimensions





Material options



Soil type	k value [N/mm³]	
	Lower value	Upper value
Fine or slightly compacted sand	0.015	0.030
Well compacted sand	0.050	0.100
Very well compacted sand	0.100	0.150
Loam or clay (moist)	0.030	0.060
Loam or clay (dry)	0.080	0.100
Clay with sand	0.080	0.100
Crushed stone with sand	0.100	0.150
Coarse crushed stone	0.200	0.250
Well compacted crushed stone	0.200	0.300

Loads

Permanent loads

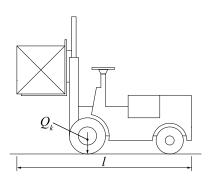
Characteristic permanent load $g_{\scriptscriptstyle k}$ =	kN/m²	
Partial safety factor for permanent load γ_{g} =		Recommended value = 1.35
Imposed loads		
Characteristic imposed load $\boldsymbol{q_{\scriptscriptstyle k}}$ =	kN/m²	
Partial safety factor for imposed load γ_q =		recommended value = 1.50
Point load		
Characteristic value of point load $Q_{\scriptscriptstyle p}$ =	kN	

Dynamic loads (forklift)

Partial safety factor for point load $\gamma_{\it Qp}$ =

Partial safety factor for dynamic load γ_{Qk} =		recommended value = 1.60
Dynamic magnification factor φ =		value 1.4 for pneumatic tires and value 2.0 for solid tires
Characteristic axle load of forklift $\boldsymbol{Q_{\scriptscriptstyle k}}$ =	kN	based on type of forklift (FL 1~6)
Width of contact area =	mm	recommended value 200 mm
Distance between middle of contact areas $a =$	mm	based on type of forklift (FL 1~6)

Class of forklifts	Axle load $Q_{_k}$ [kN]	Net weight [kN]	Hoisting load [kN]	Width of axle a [mm]	Overall width b [mm]	Overall length <i>l</i> [mm]
FL 1	26	21	10	850	1000	2600
FL 2	40	31	15	950	1100	3000
FL 3	63	44	25	1000	1200	3300
FL 4	90	60	40	1200	1400	4000
FL 5	140	90	60	1500	1900	4600
FL 6	170	110	80	1800	2300	5100



recommended value = 1.50

