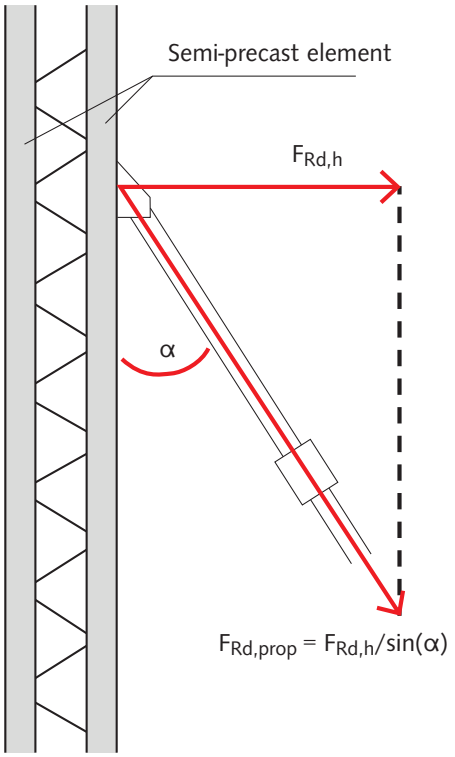
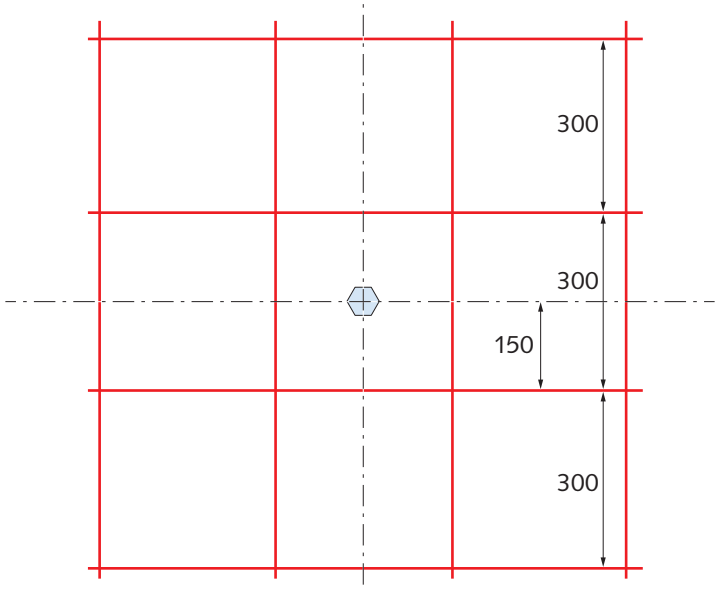
Section

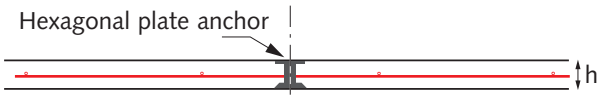


Plan

Tested reinforcement layout (HA6):



Section



Dimensions [mm]

CERIB Concrete Expertise

Type M16/42/12: CERIB Test report no. 022274
Type M16/40/6: CERIB Test report no. 024926
Type M16/55/5: CERIB Test report no. 024927

Excerpt from CERIB Certificates			
Type	M16/42/12	M16/40/6	M16/55/5
$F_{Rd,h}$ ①	9.2 kN ③	9.4 kN ④	7.4 kN ③
Minimum inclination of angle α	30°		
Maximum force $F_{Rd,prop}$ ②	18.4 kN ③	18.8 kN ④	14.8 kN ③
Minimum nominal wall thickness h	55 mm	50 mm	50 mm
Minimum edge distance c_{min}	100 mm		
Minimum spacing s_{min}	200 mm		
Concrete compressive strength class	C20/25	C30/37	C20/25
Minimum wall reinforcement	HA6 spaced 30 cm in both directions		
Tightening torque T_{inst}	30 Nm		

① The concrete capacity at design level $F_{Rd,h}$, perpendicular to the surface of the wall was calculated with $\gamma = 1.5$ ($F_{Rd,h} = F_{Rk,h}/1.5$) according EN1992-4 assuming concrete cone failure.
② The force in the central axis of the prop, $F_{Rd,prop}$, must not exceed the value = $F_{Rd,h}/\sin(30°)$.
③ For other concrete compressive strength classes, multiply by the factors 1.10 (C25/30) and 1.22 (C30/37).
④ For other concrete compressive strength classes, multiply by the factors 0.82 (C20/25) and 0.90 (C30/37).

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