

# LOADS

## High performance anchor FH II - B

**Highest permissible loads for a single anchor<sup>1)</sup>** in concrete C20/25<sup>4)</sup>

For the design the complete approval ETA - 07/0025 has to be considered.

Type				Cracked concrete				Non-cracked concrete			
	Effective anchorage depth	Min. member thickness	Installation torque	Permissible tensile load	Permissible shear load	Min. spacing	Min. edge distance	Permissible tensile load	Permissible shear load	Min. spacing	Min. edge distance
	$h_{ef}$ [mm]	$h_{min}$ [mm]	$T_{inst}$ [Nm]	$N_{perm}^{3)}$ [kN]	$V_{perm}^{3)}$ [kN]	$s_{min}^{2)}$ [mm]	$c_{min}^{2)}$ [mm]	$N_{perm}^{3)}$ [kN]	$V_{perm}^{3)}$ [kN]	$s_{min}^{2)}$ [mm]	$c_{min}^{2)}$ [mm]
<b>FH II 10 B</b>	40	80	10,0	3,6	4,3	40	40	6,1	6,1	40	40
<b>FH II 12 B</b>	60	120	17,5	5,7	15,4	50	50	11,2	15,4	60	60
<b>FH II 15 B</b>	70	140	38,0	7,6	20,1	60	60	14,1	23,4	70	70
<b>FH II 18 B</b>	80	160	80,0	11,9	24,5	70	70	17,2	34,4	80	80
<b>FH II 24 B</b>	100	200	120,0	17,1	34,3	80	80	24,0	48,1	100	100
<b>FH II 28 B</b>	125	250	180,0	24,0	47,9	100	100	33,6	67,2	120	120
<b>FH II 32 B</b>	150	300	200,0	31,5	63,0	120	120	44,2	88,4	160	180

<sup>1)</sup> The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of  $\gamma_L = 1,4$  are considered. As an single anchor counts e.g. an anchor with a spacing  $s \geq 3 \times h_{ef}$  and an edge distance  $c \geq 1,5 \times h_{ef}$ . Accurate data see approval.

<sup>2)</sup> Minimum possible axial spacings resp. edge distance while reducing the permissible load.

<sup>3)</sup> For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

<sup>4)</sup> For higher concrete strength classes up to C50/60 higher permissible loads may be possible.