

Highbond anchor dynamic FHB dyn⁵⁾**Highest permissible loads^{1) 6)} for a single anchor** in concrete B25 resp. C20/25⁴⁾.

For the design the complete approval Z-2 1.3-1748 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	Cracked or Non-cracked concrete			
				Permissible tensile load $\Delta N_{perm}^{3)}$ [kN]	Permissible shear load $\Delta V_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
FHB dyn 12x100	100	130	40,0	14,1	6,7	100	200
	100	200	40,0	14,1	6,7	100	100
FHB dyn 16x125	125	160	60,0	23,0	11,9	100	200
	125	250	60,0	23,0	11,9	100	100
FHB dyn 20x170	170	220	100,0	28,1	17,0	80	80
FHB dyn 24x220	220	440	120,0	28,9	22,2	180	180
FHB dyn 12x100 V	105	130	40,0	14,1	9,6	100	200
	105	200	40,0	14,1	9,6	100	100
FHB dyn 16x125 V	130	160	60,0	23,0	17,0	100	200
	130	250	60,0	23,0	17,0	100	100

¹⁾ The permissible loads apply for the design method II (unknown lowest load and unknown load cycles). The partial safety factor for material resistance and the partial safety factor for action regarding fatigue as regulated in the approval are considered. When using design method I higher permissible loads may be possible.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads as well as reduced edge distances or spacings (anchor groups) see approval.

⁵⁾ Anchor rod FHB-A dyn made of galv. steel.

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

⁶⁾ The given loads are valid for fixations in dry and humid concrete for temperatures in the substrate up to +50°C (resp. short term up to 80°C) and best possible drillhole cleaning according approval.

LOADS

Highbond anchor dynamic FHB dyn C⁵⁾

Highest permissible loads^{1) 6)} for a single anchor in concrete B25 resp. C20/25⁴⁾.

For the design the complete approval Z-2 1.3-1748 has to be considered.

				Cracked or Non-cracked concrete			
Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	Permissible tensile load $\Delta N_{perm}^{3)}$ [kN]	Permissible shear load $\Delta V_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
FHB dyn 12x100 C	100	130	40,0	11,1	4,4	100	200
	100	200	40,0	11,1	4,4	100	100
FHB dyn 16x125 C	125	160	60,0	15,6	11,9	100	200
	125	250	60,0	15,6	11,9	100	100

¹⁾ The permissible loads apply for the design method II (unknown lowest load and unknown load cycles). The partial safety factor for material resistance and the partial safety factor for action regarding fatigue as regulated in the approval are considered. When using design method I higher permissible loads may be possible.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads as well as reduced edge distances or spacings (anchor groups) see approval.

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

⁵⁾ Anchor rod FHB-A dyn-C made of highly corrosion-resistant steel of the corrosion resistance class IV e.g. 1.4529

⁶⁾ The given loads are valid for fixations in dry and humid concrete for temperatures in the substrate up to +50°C (resp. short term up to 80°C) and best possible drillhole cleaning according approval.