

fischer bolt anchor FBN II HDG

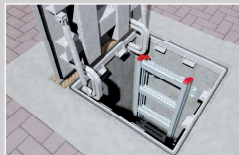
The cost-efficient fixing solution for extensible use in non-cracked concrete



Approved bolt anchor in galvanized steel now for use in outdoor areas.

- **NEW:** With assessment document (ETA) the hot dipped galvanized steel version is covered for external use with variable working life depending on environment and corrosion conditions
- Maximum load-bearing capacity in concrete
- Fast installation and increased flexibility due to reduced anchoring depth
- The short version "K" for a cost-efficient fixing solution
- No need for drill hole cleaning when hollow drills with vacuum

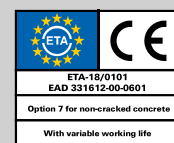
Applications

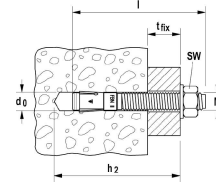


Building material



Approval





Bolt anchor FBN II HDG

Item	Art.-No.	Drill diameter	Min. drill hole depth for push-through installation	Anchor length	Max. usable length $h_{ef,stand.} / h_{ef,red.}$	Thread
		d_0 [mm]	h_2 [mm]	l [mm]	t_{fix} [mm]	$\varnothing \times$ length [mm]
FBN II 8/10 HDG	507575	8	86	71	10/20	M 8 x 39
FBN II 8/30 HDG	507576	8	86	91	30/40	M 8 x 59
FBN II 8/50 HDG	507577	8	106	111	50/60	M 8 x 79
FBN II 8/70 HDG	507578	8	126	131	70/80	M 8 x 99
FBN II 10/10 HDG	507579	10	78	86	10/20	M 10 x 46
FBN II 10/30 HDG	507580	10	98	106	30/40	M 10 x 66
FBN II 10/50 HDG	507582	10	118	126	50/60	M 10 x 86
FBN II 10/100 HDG	507583	10	168	176	100/110	M 10 x 136
FBN II 12/10 HDG	507589	12	95	106	10/25	M 12 x 59
FBN II 12/30 HDG	507591	12	115	126	30/45	M 12 x 79
FBN II 12/50 HDG	507592	12	135	146	50/65	M 12 x 99
FBN II 12/100 HDG	507596	12	185	196	100/115	M 12 x 149
FBN II 16/25 HDG	507598	16	129	145	25/40	M 16 x 89
FBN II 16/50 HDG	507553	16	154	170	50/65	M 16 x 105
FBN II 16/100 HDG	507554	16	204	220	100/115	M 16 x 164
FBN II 20/30 HDG	508015	20	165	187	30/55	M 20 x 90
FBN II 8/5 K HDG	508012	8	51	56	-/5	M 8 x 24
FBN II 10/5 K HDG	508013	10	63	71	-/5	M 10 x 31
FBN II 12/5 K HDG	508014	12	75	86	-/5	M 12 x 39
FBN II 16/15 K HDG	507597	16	104	120	-/15	M 16 x 64

Durability guide of FBN II HDG by corrosivity

Corrosivity category	Corrosivity	Durability [Years]	Outdoor	Indoor
C 1	Very low	50 ¹⁾	Dry or cold zone, atmospheric environment with very low pollution and time of wetness, e.g. certain deserts, Central Arctic/Antarctica ¹⁾	Heated spaces with low relative humidity and insignificant pollution, e.g. offices, schools, museums ¹⁾
C 2	Low	50 ¹⁾	Temperate zone, atmospheric environment with low pollution, e.g. rural areas, small towns Dry or cold zone, atmospheric environment with short time of wetness, e.g. deserts, subarctic areas ¹⁾	Unheated spaces with varying temperature and relative humidity. Low frequency of condensation and low pollution, e.g. storage, sport halls ¹⁾
C 3	Medium	25 ¹⁾	Temperate zone, atmospheric environment with medium pollution or some effect of chlorides, e.g. urban areas, coastal areas with low deposition of chlorides Subtropical and tropical zone, atmosphere with low pollution ¹⁾	Spaces with moderate frequency of condensation and moderate pollution from production process, e.g. food-processing plants, laundries, breweries, dairies ¹⁾
C 4	High	12,5 ¹⁾	Temperate zone, atmospheric environment with high pollution or substantial effect of chlorides, e.g. polluted urban areas, industrial areas, coastal areas without spray of salt water or, exposure to strong effect of de-icing salts Subtropical and tropical zone, atmosphere with medium pollution ¹⁾	Spaces with high frequency of condensation and high pollution from production process, e.g. industrial processing plants, swimming pools ¹⁾
C 5	Very High	5 ¹⁾	Temperate and subtropical zone, atmospheric environment with very high pollution and/or significant effect of chlorides, e.g. industrial areas, coastal areas, sheltered positions on coastline ¹⁾	Spaces with very high frequency of condensation and/or high pollution from production process, e.g. mines, caverns for industrial purposes, unventilated sheds in subtropical and tropical zones ¹⁾
C X	Extreme	2 ¹⁾	Subtropical and tropical zone (very high time of wetness), atmospheric environment with very high SO ₂ pollution including accompanying and production factors and/or strong effect of chlorides, e.g. extreme industrial areas, coastal and offshore areas, occasional contact with salt spray ¹⁾	Spaces with almost permanent condensation or extensive periods of exposure to extreme humidity effects and/or high pollution from production process, e.g. unventilated sheds in humid tropical zones with penetration of outdoor pollution including airborne chlorides and corrosion-stimulating particulate matter ¹⁾

¹⁾ For details please see E1A-18/ 0101