



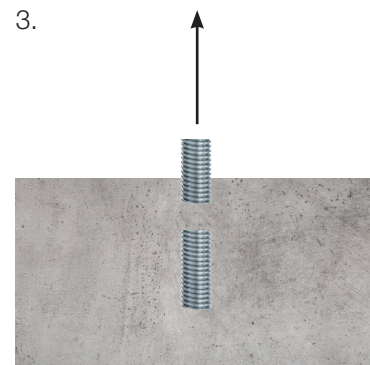
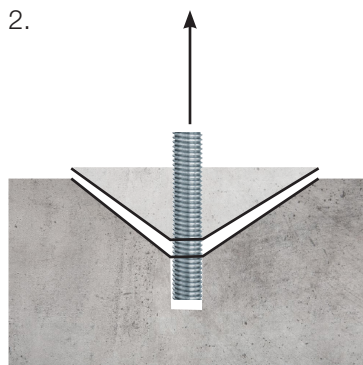
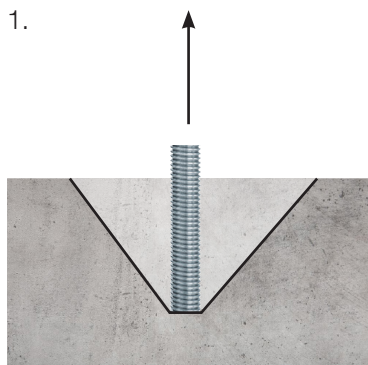
* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

DESIGN INFORMATION FOR TENSILE LOAD

- | | |
|--------------------------|----------------------------------|
| • Type of concrete | Uncracked concrete |
| • Concrete grade | C20/25 |
| • Concrete conditions | Dry/wet concrete & flooded holes |
| • Steel grade | 8.8 |
| • Max. temperature range | 80°C/50°C |
| • Drilling mode | Hammer drill mode |

LEGEND FAILURE LOADS

1. Concrete failure
2. Combined concrete / pullout failure
3. Steel failure



REMARKS

- Resistance values are based on combined pullout & concrete cone failure and concrete cone failure according to EOTA TR029. Resistance to steel failure is also considered - the lowest value controls.
- Only approved installation parameters (anchor depth $h_{ef} = \min 8d - \max 12d$; threaded rods M8-M24) and steel grades which are included in the relevant ETA should be considered in the table below. Values outside these parameters are theoretical values and performance cannot be guaranteed.
- The table values are assuming that there is no influence of edge distance or spacing of anchors and that the concrete is of adequate depth/thickness as per the anchors requirements.
- This table is only a guideline which doesn't replace the necessary calculations according to the EOTA TR029 guidelines.

Anchor depth H_{ef} (mm)	Design resistance N Rd (kN)*					
	Anchor diameter d					
	M8	M10	M12	M16	M20	M24
64	8,94	8,94	12,06	15,64	15,64	15,64
70	9,77	9,77	13,19	17,90	17,90	17,90
80	11,17	11,17	15,08	21,22	21,86	21,86
90	12,57	12,57	16,96	23,88	26,09	26,09
100	13,96	13,96	18,85	26,53	29,67	30,56
110	15,36	15,36	20,73	29,18	32,64	35,25
120	16,76	16,76	22,62	31,83	35,60	40,17
130	18,15	18,15	24,50	34,49	38,57	45,29
140	19,33	19,55	26,39	37,14	41,54	49,85
150		20,94	28,27	39,79	44,51	53,41
160		22,34	30,16	42,45	47,47	56,97
170		23,74	32,04	45,10	50,44	60,53
180		25,13	33,93	47,75	53,41	64,09
190		26,53	35,81	50,41	56,37	67,65
200		27,93	37,70	53,06	59,34	71,21
210		29,32	39,58	55,71	62,31	74,77
220		30,67	41,47	58,36	65,28	78,33
230			43,35	61,02	68,24	81,89
240			44,67	63,67	71,21	85,45
250				66,32	74,18	89,01
260				68,98	77,14	92,57
270				71,63	80,11	96,13
280				74,28	83,08	99,69
290				76,93	86,04	103,25
300				79,59	89,01	106,81
310				82,24	91,98	110,37
320				84,00	94,95	113,94
330					97,91	117,50
340					100,88	121,06
350					103,85	124,62
360					106,81	128,18
370					109,78	131,74
380					112,75	135,30
390					115,72	138,86
400					118,68	142,42
410					121,65	145,98
420					124,62	149,54
430					127,58	153,10
440					130,55	156,66
450					130,67	160,22
460						163,78
470						167,34
480						170,90
490						174,46
500						178,02
510						181,58
520						185,14
530						188,00

* 1 kN = 101,97 kg