

R-KF2

UNIVERSAL ADHESIVE ANCHOR WITHOUT STYRENE FOR CONCRETE WITH STUDS

Universal chemical anchor designed for medium loads, for use in concrete in combination with threaded metric rods.



FEATURES AND BENEFITS

Available in a three versions with variable curing time

Product with wide spectrum of use in the medium load capacity area

Suitable for multiple use. Partly used product can be reused after fitting new nozzle

Option of use standard manual silicone gun

The most convenient bonded anchor for general purpose use

Ideal for applications where mechanical anchors are not suitable

Two colors - stone & gray

SUBSTRATES



Uncracked concrete
C20/25-C50/60

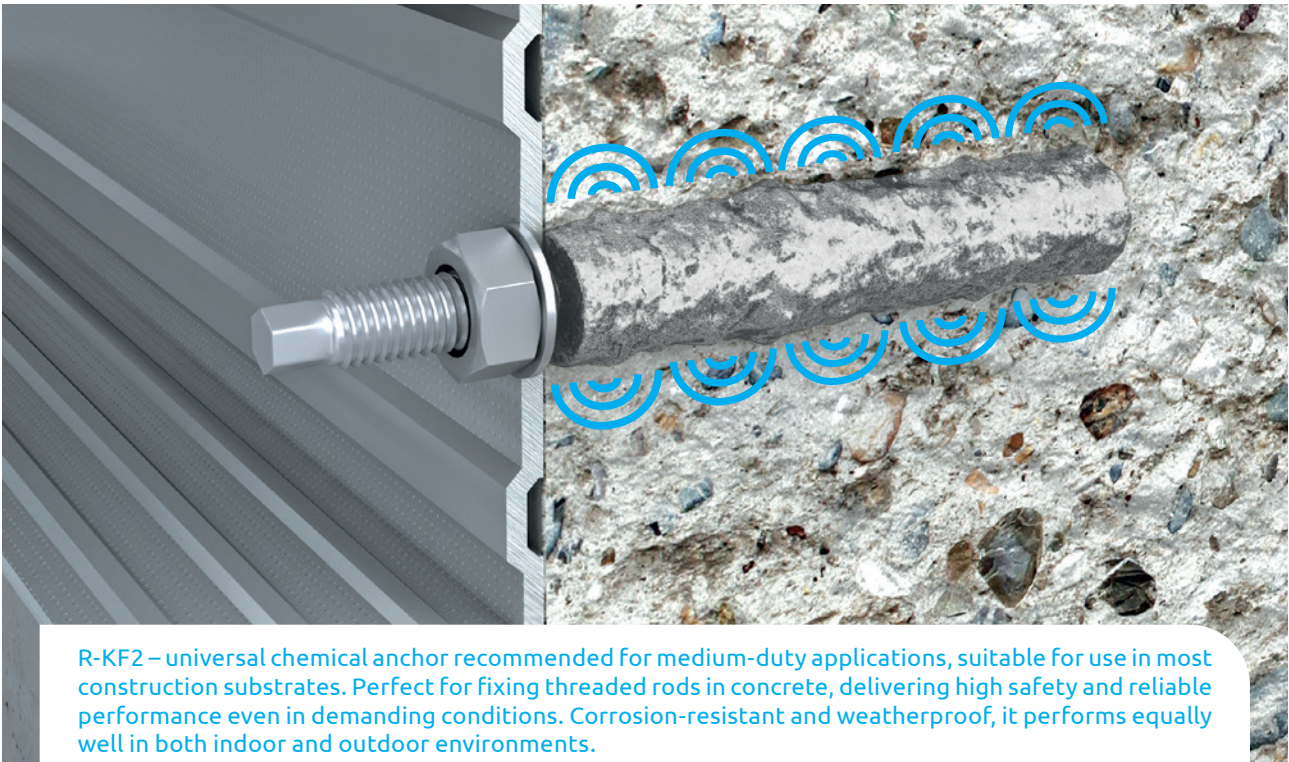


Unreinforced concrete



Reinforced concrete





APPLICATIONS

Balustrades

Gates

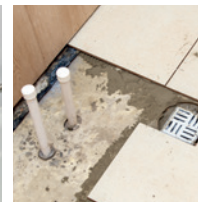
Handrails

Sanitary and gas installations

Steel structures

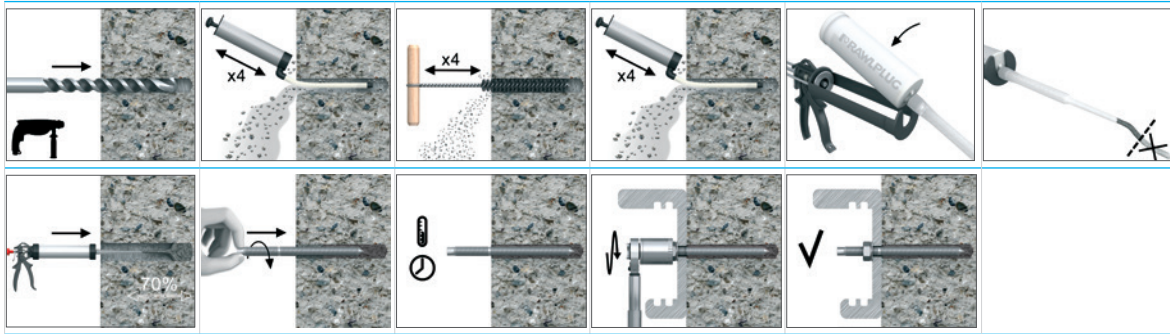
Storage racks

Swings



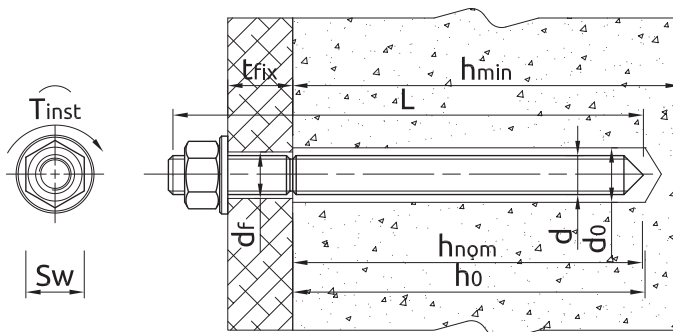
INSTALLATION GUIDE

CONCRETE



1. Drill hole to the required diameter and depth for stud size being used.
2. Clean the hole thoroughly with brush and hand pump at least four times before installation.
3. Insert cartridge into gun and attach nozzle.
4. Dispense to waste until even colour is obtained (min. 10 cm), to mix the ingredients thoroughly.
5. Insert the mixer nozzle to the bottom of the drill hole and inject resin, slowly with drawing the nozzle as the hole is filled to 70% of its depth.
6. Immediately insert the stud, slowly and with slight twisting motion.
After the resin has cured, remove any excess mortar from the surface of the substrate around the hole using a hammer.
7. Attach fixture and tighten the nut to the required torque. The applied installation torque cannot exceed $T_{inst,max}$ *

INSTALLATION DATA



Size			M8	M10	M12	M16	M20	M24	M27	M30
Thread diameter	d	[mm]	8	10	12	16	20	16	27	20
Hole diameter in substrate	d ₀	[mm]	10	12	14	18	24	28	30	35
Hole diameter in fixture	d _f	[mm]	9	12	14	18	22	26	30	33
Max. installation torque	T _{ist}	[Nm]	10	20	40	80	130	200	240	280
Min. hole depth in substrate	h ₀	[mm]	h _{ef} + 5							
Min. substrate thickness	h _{min}	[mm]	h _{ef} + 30 ≥ 100				h _{ef} + 2 · d ₀			
Min. edge distance	c _{min}	[mm]	40	40	50	65	80	100	110	120
Min. spacing	s _{min}	[mm]	40	40	50	65	80	100	110	120
Min. installation depth	h _{ef,min} ¹⁾	[mm]	60	60	70	80	90	96	108	120
Max. Installation depth	h _{ef,max} ²⁾	[mm]	160	200	240	320	400	480	540	600

¹⁾ h_{ef,min} = h_{nom,min}

²⁾ h_{ef,max} = h_{nom,max}

MECHANICAL PROPERTIES

Size			M8	M10	M12	M16	M20	M24	M27	M30
R-STUDS METRIC THREADED RODS; GRADE 5.8										
Nominal ultimate tensile strength	f _{uk}	[N/mm ²]	500	500	500	500	500	500	500	500
Nominal yield strength	f _{yk}	[N/mm ²]	400	400	400	400	400	400	400	400
Cross sectional area	A _s	[mm ²]	36,6	58,0	84,3	156,7	244,8	352,3	459,0	560,6
Elastic section modulus	W _{el}	[mm ³]	31,2	62,3	109,1	276,6	540,2	932,8	1387,0	1872,1
Characteristic bending resistance	M ₀ ^{Rk,s}	[Nm]	19,0	37,0	65,0	166,0	324,0	561,0	832,0	1124,0
Design bending resistance	M	[Nm]	15,2	29,6	52,0	132,8	259,2	448,8	665,6	899,2

MECHANICAL PROPERTIES

Size			M8	M10	M12	M16	M20	M24	M27	M30
R-STUDS METRIC THREADED RODS; GRADE 8.8										
Nominal ultimate tensile strength	f_{uk}	[N/mm ²]	800	800	800	800	800	800	800	800
Nominal yield strength	f_{yk}	[N/mm ²]	640	640	640	640	640	640	640	640
Cross sectional area	A_s	[mm ²]	36,6	58,0	84,3	156,7	244,8	352,3	459,0	560,6
Elastic section modulus	W_{el}	[mm ³]	31,2	62,3	109,1	276,6	540,2	932,8	1387,0	1872,1
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	30,0	60,0	105,0	266,0	519,0	898,0	1332,0	1799,0
Design bending resistance	M	[Nm]	24,0	48,0	84,0	212,8	415,2	718,4	1065,6	1439,2
R-STUDS METRIC THREADED RODS; GRADE A4-70										
Nominal ultimate tensile strength	f_{uk}	[N/mm ²]	700	700	700	700	700	700	700	700
Nominal yield strength	f_{yk}	[N/mm ²]	450	450	450	450	450	450	450	450
Cross sectional area	A_s	[mm ²]	36,6	58,0	84,3	156,7	244,8	352,3	459,0	560,6
Elastic section modulus	W_{el}	[mm ³]	31,2	62,3	109,1	276,6	540,2	932,8	1387,0	1872,1
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	26,0	52,0	92,0	233,0	454,0	786,0	1165,0	1574,0
Design bending resistance	M	[Nm]	16,7	33,3	59,0	149,4	291,0	503,8	746,8	1009,0

PROCESSING AND CURING TIME

R-KF2 (standard version)

Temperature of substrate	Max. processing time	Min. curing time ¹⁾
[°C]	[min]	[min]
-5 ÷ 0	22	480 (8h)
0 ÷ 5	14	240 (4h)
+5 ÷ +10	9	120 (2h)
+10 ÷ +15	5,5	90 (1,5h)
+15 ÷ +20	3,5	60
+20 ÷ +25	2	45
+25 ÷ +30	1,5	35
+30 ÷ +35	1	30
+35 ÷ +40	1	25

R-KF2-S (version for summer season)

Temperature of substrate	Max. processing time	Min. curing time ¹⁾
[°C]	[min]	[min]
-5 ÷ 0	70	1440 (24h)
0 ÷ +5	43	1080 (18h)
+5 ÷ +10	24	720 (12h)
+10 ÷ +15	15	480 (8h)
+15 ÷ +20	8	360 (6h)
+20 ÷ +25	6	240 (4h)
+25 ÷ +30	5,5	180 (3h)
+30 ÷ +35	4	90 (1,5h)
+35 ÷ +40	3,5	1h

R-KF2-W (version for swinter season)

Temperature of substrate	Max. processing time	Min. curing time ¹⁾
[°C]	[min]	[min]
-20 ÷ -15	45	1140 (24h)
-15 ÷ -10	32	1080 (18h)
-10 ÷ -5	22	480 (8h)
-5 ÷ 0	14	300 (5h)
0 ÷ +5	9	120 (2h)
+5 ÷ +10	6,5	60
+10 ÷ +15	4	45
+15 ÷ +20	2,5	30
+20 ÷ +25	1	15
+25 ÷ +30	45sec	15

Min. resin temp. = 5°C
Max. resin temp. = 25°C

¹⁾ For wet condition and flooded holes, the curing time must be doubled.

BASIC PERFORMANCE DATA

Performance data for single anchor without influence of edge distance and spacing.

Size		M8	M10	M12	M16	M20	M24	M27	M30
Minimum embedment depth	[mm]	60	60	70	80	90	96	108	120
Maximum embedment depth	[mm]	160	200	240	320	400	480	540	600
MEAN ULTIMATE LOAD									
TENSION LOAD $N_{Ru,m}$									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	18,9	30,5	39,5	48,3	57,6	63,5	75,8	88,7
Maximum embedment depth	[kN]	18,9	30,5	44,1	81,9	128,1	184,8	241,5	294,0
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	28,5	31,4	39,5	48,3	57,6	63,5	75,8	88,7
Maximum embedment depth	[kN]	30,5	48,3	70,4	131,3	205,8	296,1	385,4	470,4
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	26,3	31,4	39,5	48,3	57,6	63,5	75,8	88,7
Maximum embedment depth	[kN]	26,3	42,0	62,0	114,5	179,6	259,4	337,1	411,6

BASIC PERFORMANCE DATA

Performance data for single anchor without influence of edge distance and spacing.

Size		M8	M10	M12	M16	M20	M24	M27	M30
Minimum embedment depth	[mm]	60	60	70	80	90	96	108	120
Maximum embedment depth	[mm]	160	200	240	320	400	480	540	600
SHEAR LOAD $V_{Ru,m}$									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	11,3	18,3	26,5	49,1	76,9	110,9	144,9	176,4
Maximum embedment depth	[kN]	11,3	18,3	26,5	49,1	76,9	110,9	144,9	176,4
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	18,3	29,0	42,2	78,8	115,3	127,0	151,5	177,5
Maximum embedment depth	[kN]	18,3	29,0	42,2	78,8	123,5	177,7	231,2	282,2
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	15,8	25,2	37,2	68,7	107,7	127,0	151,5	177,5
Maximum embedment depth	[kN]	15,8	25,2	37,2	68,7	107,7	155,6	202,2	247,0
CHARACTERISTIC LOAD									
TENSION LOAD N_{Rk}									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	16,4	20,2	28,5	35,2	42,0	46,3	55,2	64,7
Maximum embedment depth	[kN]	18,0	29,0	42,0	78,0	122,0	176,0	230,0	280,0
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	16,4	20,2	28,5	35,2	42,0	46,3	55,2	64,7
Maximum embedment depth	[kN]	29,0	46,0	67,0	125,0	196,0	282,0	361,9	424,1
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	16,4	20,2	28,5	35,2	42,0	46,3	55,2	64,7
Maximum embedment depth	[kN]	25,0	40,0	59,0	109,0	171,0	247,0	321,0	392,0
SHEAR LOAD V_{Rk}									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	11,0	17,4	25,3	47,0	73,4	92,5	110,4	129,3
Maximum embedment depth	[kN]	11,0	17,4	25,3	47,0	73,4	105,7	137,7	168,2
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	14,6	23,2	33,7	62,7	84,0	92,5	110,4	129,3
Maximum embedment depth	[kN]	14,6	23,2	33,7	62,7	97,9	140,9	183,6	224,2
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	12,8	20,3	29,5	54,8	84,0	92,5	110,4	129,3
Maximum embedment depth	[kN]	12,8	20,3	29,5	54,8	85,7	123,3	160,7	196,2
DESIGN LOAD									
TENSION LOAD N_{Rd}									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	7,8	9,6	15,8	19,6	23,3	25,7	30,7	35,9
Maximum embedment depth	[kN]	12,0	19,3	28,0	52,0	81,3	117,3	153,3	186,7
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	7,8	9,6	15,8	19,6	23,3	25,7	30,7	35,9
Maximum embedment depth	[kN]	19,3	30,7	44,7	83,3	130,7	168,9	201,0	235,6
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	7,8	9,6	15,8	19,6	23,3	25,7	30,7	35,9
Maximum embedment depth	[kN]	13,4	21,4	31,6	58,3	91,4	132,1	171,7	209,6
SHEAR LOAD V_{Rd}									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	8,8	13,4	20,2	37,6	46,7	51,4	61,3	71,9
Maximum embedment depth	[kN]	8,8	13,9	20,2	37,6	58,8	84,6	110,2	134,5
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	11,7	18,6	27,0	39,1	46,7	51,4	61,3	71,9
Maximum embedment depth	[kN]	11,7	18,6	27,0	50,1	78,3	112,7	146,9	179,4
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	8,2	13,0	18,9	35,1	46,7	51,4	61,3	71,9
Maximum embedment depth	[kN]	8,2	13,0	18,9	35,1	54,9	79,1	103,0	125,8
RECOMMENDED LOAD									
TENSION LOAD N_{Rd}									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	5,6	6,9	11,3	14,0	16,7	18,4	21,9	25,7
Maximum embedment depth	[kN]	8,6	13,8	20,0	37,1	58,1	83,8	109,5	133,3
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	5,6	6,9	11,3	14,0	16,7	18,4	21,9	25,7
Maximum embedment depth	[kN]	13,8	21,9	31,9	59,5	93,3	120,6	143,6	168,3
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	5,6	6,9	11,3	14,0	16,7	18,4	21,9	25,7
Maximum embedment depth	[kN]	9,5	15,3	22,5	41,6	65,3	94,3	122,6	149,7
SHEAR LOAD V_{Rd}									
R-STUDS METRIC THREADED RODS, GRADE 5.8									
Minimum embedment depth	[kN]	6,3	9,6	14,4	26,9	33,3	36,7	43,8	51,3
Maximum embedment depth	[kN]	6,3	9,9	14,4	26,9	42,0	60,4	78,7	96,1

BASIC PERFORMANCE DATA

Performance data for single anchor without influence of edge distance and spacing.

Size		M8	M10	M12	M16	M20	M24	M27	M30
Minimum embedment depth	[mm]	60	60	70	80	90	96	108	120
Maximum embedment depth	[mm]	160	200	240	320	400	480	540	600
R-STUDS METRIC THREADED RODS, GRADE 8.8									
Minimum embedment depth	[kN]	8,4	13,3	19,3	27,9	33,3	36,7	43,8	51,3
Maximum embedment depth	[kN]	8,4	13,3	19,3	35,8	56,0	80,5	104,9	128,1
R-STUDS METRIC THREADED RODS, GRADE A4-70									
Minimum embedment depth	[kN]	5,9	9,3	13,5	25,1	33,3	36,7	43,8	51,3
Maximum embedment depth	[kN]	5,9	9,3	13,5	25,1	39,2	56,5	73,6	89,8

DESIGN PERFORMANCE DATA

Size		M8	M10	M12	M16	M20	M24	M27	M30
TENSION LOAD									
STEEL FAILURE, GRADE 5.8									
Characteristic resistance	$N_{Rk,s}$ [kN]	18,0	29,0	42,0	78,0	122,0	176,0	230,0	280,0
Partial safety factor	γ_{Ms}	-	1,50	1,50	1,50	1,50	1,50	1,50	1,50
STEEL FAILURE, GRADE 8.8									
Characteristic resistance	$N_{Rk,s}$ [kN]	29,0	46,0	67,0	125,0	196,0	282,0	367,0	448,0
Partial safety factor	γ_{Ms}	-	1,50	1,50	1,50	1,50	1,50	1,50	1,50
STEEL FAILURE, GRADE A4-70									
Characteristic resistance	$N_{Rk,s}$ [kN]	25,0	40,0	59,0	109,0	171,0	247,0	321,0	392,0
Partial safety factor	γ_{Ms}	-	1,87	1,87	1,87	1,87	1,87	1,87	1,87
COMBINED PULL-OUT AND CONCRETE CONE FAILURE; WORKING LIFE OF 50 YEARS									
NON-CRACKED CONCRETE C20/25									
Characteristic bond resistance (24°C / 40°C)	$\tau_{Rk,ucr}$ [N/mm ²]	10,9	10,7	10,8	10,0	9,4	8,4	7,9	7,5
Characteristic bond resistance (50°C / 80°C)	$\tau_{Rk,ucr}$ [N/mm ²]	10,3	10,1	10,1	9,4	8,9	7,8	7,4	7,0
FACTORS									
Increasing factor for concrete C30/37	ψ_c	-	1,04	1,04	1,04	1,04	1,04	1,04	1,04
Increasing factor for concrete C40/50	ψ_c	-	1,07	1,07	1,07	1,07	1,07	1,07	1,07
Increasing factor for concrete C50/60	ψ_c	-	1,09	1,09	1,09	1,09	1,09	1,09	1,09
Sustained factor (24°C / 40°C)	ψ_{sus}^0	-	0,78	0,78	0,78	0,78	0,78	0,78	0,78
Sustained factor (50°C / 80°C)	ψ_{sus}^0	-	0,78	0,78	0,78	0,78	0,78	0,78	0,78
Installation safety factor	γ_{inst}	-	1,4	1,4	1,2	1,2	1,2	1,2	1,2
COMBINED PULL-OUT AND CONCRETE CONE FAILURE; WORKING LIFE OF 100 YEARS									
NON-CRACKED CONCRETE C20/25									
Characteristic bond resistance (24°C / 40°C)	$\tau_{Rk,ucr}$ [N/mm ²]	10,9	10,7	10,8	10,0	9,4	8,4	7,9	7,5
Characteristic bond resistance (50°C / 80°C)	$\tau_{Rk,ucr}$ [N/mm ²]	10,3	10,1	10,1	9,4	8,9	7,8	7,4	7,0
FACTORS									
Increasing factor C30/37	ψ_c	-	1,04	1,04	1,04	1,04	1,04	1,04	1,04
Increasing factor C40/50	ψ_c	-	1,07	1,07	1,07	1,07	1,07	1,07	1,07
Increasing factor C50/60	ψ_c	-	1,09	1,09	1,09	1,09	1,09	1,09	1,09
Sustained factor (24°C / 40°C)	ψ_{sus}^0	-	0,74	0,74	0,74	0,74	0,74	0,74	0,74
Sustained factor (50°C / 80°C)	ψ_{sus}^0	-	0,73	0,73	0,73	0,73	0,73	0,73	0,73
Installation safety factor	γ_{inst}	-	1,4	1,4	1,2	1,2	1,2	1,2	1,2
CONCRETE CONE FAILURE									
Factor for non-cracked concrete	$k_{ucr,N}$	-	11,0	11,0	11,0	11,0	11,0	11,0	11,0
Edge distance	$c_{cr,N}$ [mm]		$1,5 \cdot h_{ef}$						
Spacing	$s_{cr,N}$ [mm]		$3,0 \cdot h_{ef}$						
Installation safety factor	γ_{inst}	-	1,4	1,4	1,2	1,2	1,2	1,2	1,2
CONCRETE SPLITTING FAILURE									
Installation safety factor	γ_{inst}	-	1,4	1,4	1,2	1,2	1,2	1,2	1,2
SHEAR LOAD									
STEEL FAILURE, GRADE 5.8									
Characteristic resistance without lever arm	$V_{Rk,s}$ [kN]	11,0	17,4	25,3	47,0	73,4	105,7	137,7	168,2
Ductility factor	k_{γ}	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Characteristic resistance with lever arm	$M^0_{Rk,s}$ [Nm]	19,0	37,0	65,0	166,0	324,0	561,0	832,0	1124,0
Partial safety factor	γ_{Ms}	-	1,25	1,25	1,25	1,25	1,25	1,25	1,25
STEEL FAILURE, GRADE 8.8									
Characteristic resistance without lever arm	$V_{Rk,s}$ [kN]	14,6	23,2	33,7	62,7	97,9	140,9	183,6	224,2
Ductility factor	k_{γ}	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Characteristic resistance with lever arm	$M^0_{Rk,s}$ [Nm]	30,0	60,0	105,0	266,0	519,0	898,0	1332,0	1799,0
Partial safety factor	γ_{Ms}	-	1,25	1,25	1,25	1,25	1,25	1,25	1,25
STEEL FAILURE, GRADE A4-70									
Characteristic resistance without lever arm	$V_{Rk,s}$ [kN]	12,8	20,3	29,5	54,8	85,7	123,3	160,7	196,2
Ductility factor	k_{γ}	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Characteristic resistance with lever arm	$M^0_{Rk,s}$ [Nm]	26,0	52,0	92,0	233,0	454,0	786,0	1165,0	1574,0
Partial safety factor	γ_{Ms}	-	1,56	1,56	1,56	1,56	1,56	1,56	1,56

DESIGN PERFORMANCE DATA

Size			M8	M10	M12	M16	M20	M24	M27	M30
CONCRETE PRY-OUT FAILURE										
Factor	k_g	-	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Installation safety factor	V_{inst}	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
CONCRETE EDGE FAILURE										
Anchor diameter	d_{nom}	[mm]	8	10	12	16	20	24	27	30
Effective length of anchor	l_f	[mm]	$l_f = \min(h_{ef}; 8 \cdot d_{nom})$							
Installation safety factor	V_{inst}	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0

PRODUCT COMMERCIAL DATA

Product Code	Packaging	Version	Volume	Quantity			EAN
				Box	Outer	Pallet	
			[ml]	[pcs]	[pcs]	[pcs]	
R-KF2-175	cartridge	standard	175	10	10	840	5906675641638
R-KF2-300	cartridge	standard	300	10	10	840	5906675431017
R-KF2-300-S	cartridge	summer	300	10	10	840	5906675641652
R-KF2-300-STONE	cartridge	standard	300	10	10	840	5906675641645
R-KF2-410	cartridge	standard	410	10	10	560	5906675641669
R-KF2-410-S	cartridge	summer	410	10	10	560	5906675641683
R-KF2-410-STONE	cartridge	standard	410	10	10	560	5906675641676
R-KF2-300-W	cartridge	winter	300	10	10	840	5906675652351
R-KF2-410-W	cartridge	winter	410	10	10	650	5906675652368

RELATED PRODUCTS

DRILLING	POWER TOOLS	Rotary hammer drill SDS plus, 850 W R-PRH26850 	Cordless rotary hammer drill 18V SDS plus 2,0J R-PRH18 			
	ACCESSORIES	Hollow drill bits Dustlessdrill SDS Plus RT-SDSH 	Drill bits Aggressor SDS Plus RT-SDSA 	Drill bits Rebardrill SDS Plus RT-SDSR 	Impact Socket 1/2" RT-IS 	Torque spanner 20-100 Nm 1/2" R-HTW-20-100 
CLEANING	AUTOMATIC CLEANING	Brush with a threaded coupling for the instal- lation of extensions R-BRUSH TC 	Extension R-BRUSH-EXT-H-TC  	Extension with handle R-BRUSH-EXT-H-SDS  		
	AIR CLEANING SYSTEM	Extension hose for the applications R-NOZ-EXT 	Blow-through nozzle for cleaning of holes R-NOZ-ADAPTER 			

RELATED PRODUCTS

CLEANING	MANUAL CLEANING	Extension with handle for manual cleaning R-BRUSH-TC 	Extension R-BRUSH-EXT-LT 	Extension with handle for manual cleaning R-BRUSH-EXT-LH 	Manual Blowpump R-BLOWPUM 
	DISPENSING SYSTEM	Manual dispensing sys- tem for cartridges R-GUN-MULTI 	Manual dispensing system for cartridges R-GUN-300-N 	Manual dispensing system for cartridges R-GUN-380-N 	
DOZING	ACCESSORIES	Piston Plug R-NOZ-P-16-26 	Extension hose for the applications R-NOZ-EXT 	Mixer nozzle R-NOZ 	
	ANCHORING ACCESSORIES	Metric threaded rod with hexagonal head R-STUDS 	Metric threaded rod with flat head R-STUDS-FL 		