UNIVERSAL

R-STUDS 5.8

THREADED ROD FOR USE WITH BONDED ANCHORS IN VARIOUS SUBSTRATES

A rod made of structural steel grade 5.8, which is characterized by a good balance between strength and ductility, making it excellent for a range of construction applications. The rod's surface is protected with a ZF flake zinc coating.

FEATURES AND BENEFITS

- The steel grade 5.8 provides enhanced tensile and shear strength for the rod
- Can be post-installed through fixture in some cases. (Consult technical advisory service).
- Special zinc flake corrosion-resistant coating for anti-corrosion protection.
- Hexagonal head for convenient use with torque wrench.
- Flat head for quick manual installation without a setting tool.
- High quality workmanship.
- For use with all chemical anchors in the offer.

SUBSTRATES

- Cracked concrete
- Non-cracked concrete
- Clay block
- Aerated concrete
- Aerated concrete block
- Brick
- Hollow brick

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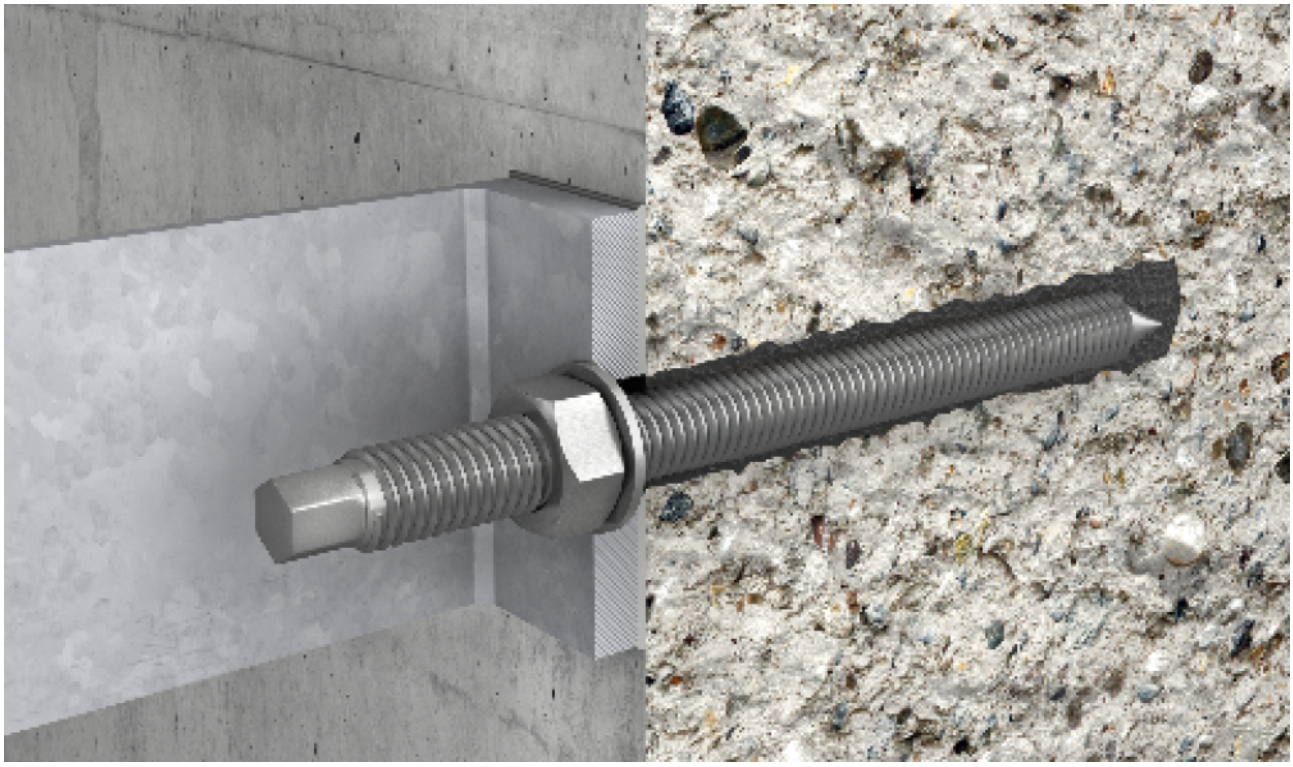

APPLICATIONS

- Anchoring glued in with threaded rods
- Barriers
- Glass facades
- Pipelines
- Seats in public facilities
- Steel structures
- Tunnels

Poland
S7 Expressway

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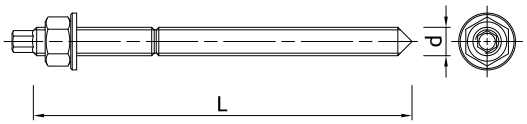
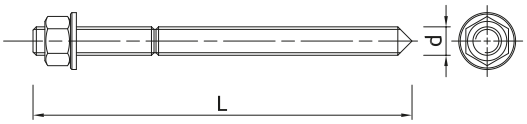


R-STUDS



R-STUDS-FL

SKU	Metric rods		
	Diameter	Length	Rod end
	d	L	-
	mm	mm	-
R-STUDS-08110FL-ZF	8	110	Flat
R-STUDS-10130FL-ZF	10	130	Flat
R-STUDS-12110FL-ZF	12	110	Flat
R-STUDS-12160FL-ZF	12	160	Flat

MECHANICAL PROPERTIES

Size			M8	M10	M12	M16	M20	M24	M30
Thread diameter	d	[mm]	8	10	12	16	20	24	30
Nominal ultimate tensile strength - tension	f_{uk}	[N/mm²]	500	500	500	500	500	500	500
Nominal yield strength	f_{yk}	[N/mm²]	400	400	400	400	400	400	400
Cross sectional area	A_s	[mm²]	36,6	58	84,3	157	245	352,8	559,8
Elastic section modulus	W_{el}	[mm³]	31,2	62,3	109,2	277,5	541	935	1868
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	19	37	65	166	324	561	1124

DESIGN PERFORMANCE DATA

Size			M8	M10	M12	M16	M20	M24	M30
TENSION LOAD, STEEL FAILURE									
Characteristic resistance	$N_{Rk,s}$	[kN]	18	29	42	78	122	176	280
Partial safety factor[1)]	γ_{MS}	[-]	1,5	1,5	1,5	1,5	1,5	1,5	1,5
SHEAR LOAD, STEEL FAILURE									
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	11	17,4	25,3	47	73,4	105,7	168,2
Partial safety factor[1)]	γ_{MS}	[-]	1,25	1,25	1,25	1,25	1,25	1,25	1,25

[1)] In the absence of other national regulation.

LOGISTICAL DATA

SKU	Base-sales unit	Unit pack	Bulk pack	Pallet	Single Package - Gross Weight	Bulk Package - Gross Weight	Palette - Gross Weight	Barcode
R-STUDS-08110FL-ZF	pcs.	10.0	10.0	12960.0	0.4	0.4	575.4	5906675433073
R-STUDS-10130FL-ZF	pcs.	10.0	300.0	9000.0	0.8	24.1	723.6	5906675403137
R-STUDS-12110FL-ZF	pcs.	10.0	10.0	7560.0	1.0	1.0	775.7	5906675452579
R-STUDS-12160FL-ZF	pcs.	10.0	10.0	5440.0	1.3	1.3	732.2	5906675403144

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RELATED PRODUCTS

SAFETY	Protective gloves for power tools **R-PGL** 			
DRILLING	Rotary Hammer Drill SDS plus; 850W; 26mm; 2.5J **R-PRH-26850** 	Cordless Hammer 18V SDS plus **R-PRH18** 	Drill bits Aggressor SDS plus **RT-SDSA** 	Drill bits Rebardrill SDS plus **RT-SDSR**
CLEANING	Rigid extension R-BRUSH-TC for cleaning with SDS+ drive **R-BRUSH-EXT-H-SDS** 	Steel wire brushes for cleaning holes **R-BRUSH-TC** 	Blow Pump **R-BLOWPUMP** 	
ANCHORING	Cordless RawlWrench 18V 315 Nm, in a transport case **R-PID18-315** 	Hammer **RT-HAM-0500** 		