UNIVERSAL

R-STUDS 5.8

THREADED ROD FOR USE WITH BONDED ANCHORS IN VARIOUS SUBSTRATES

The rod is made of 5.8 grade carbon steel, which is a material offering a good compromise between mechanical strength and ease of machining and assembly. The surface of the rod is coated with a layer of electro-galvanized zinc.

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).
- Zinc electroplated surface for enhanced corrosion resistance.
- 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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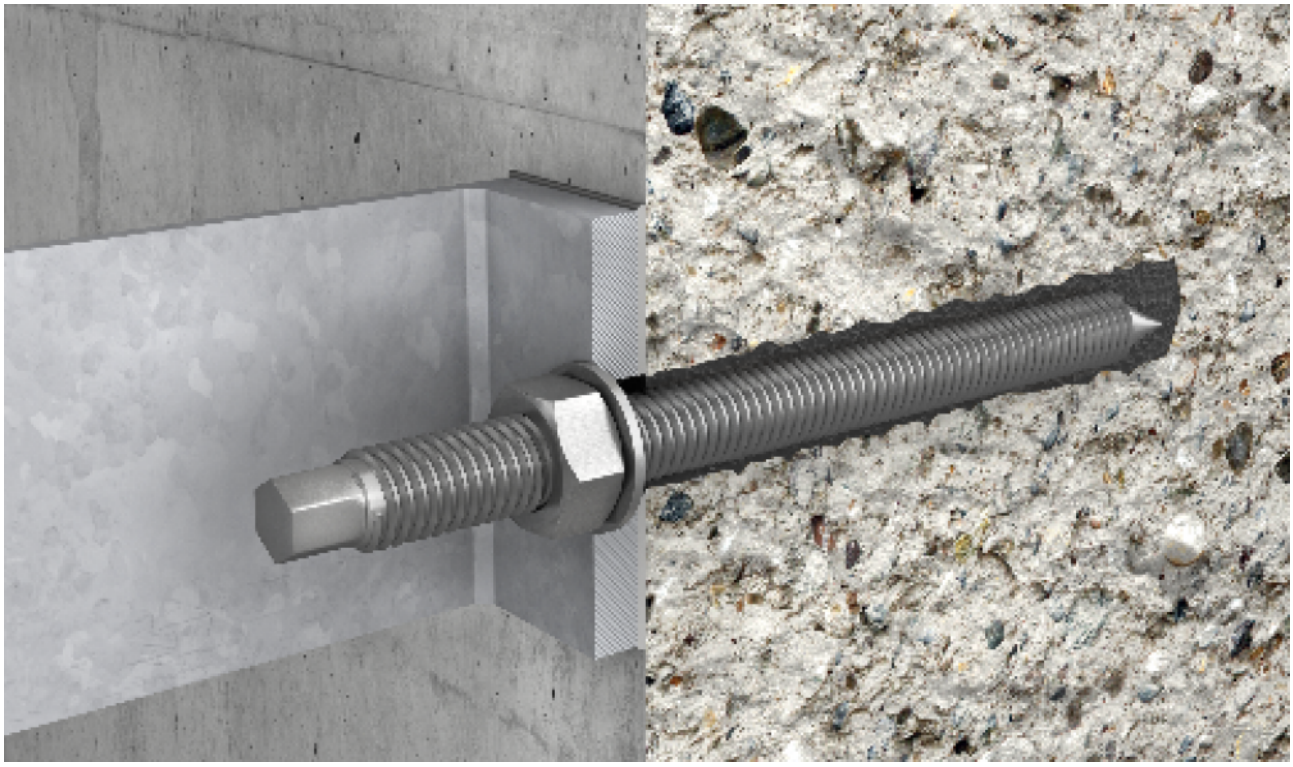
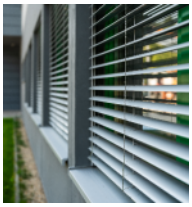
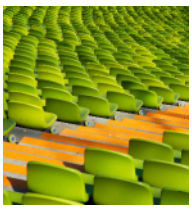


APPLICATIONS

- Anchoring glued in with threaded rods
- Barriers
- Blinds and awnings
- Boilers
- Ceiling mounts
- Pipelines
- Steel structures





Poland
S7 Expressway

R-STUDS 5.8

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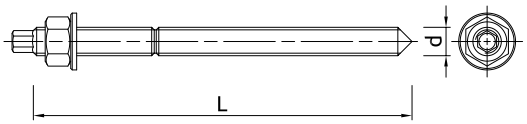
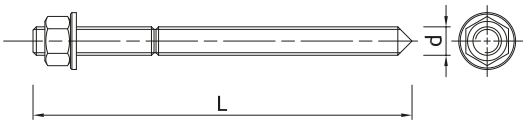


R-STUDS



R-STUDS-FL

SKU	Metric rods		
	Diameter	Length	Rod end
	d	L	-
	mm	mm	-
R-STUDS-08110	8	110	Hex
R-STUDS-08160	8	160	Hex
R-STUDS-10130	10	130	Hex
R-STUDS-10170	10	170	Hex
R-STUDS-10190	10	190	Hex
R-STUDS-12160	12	160	Hex
R-STUDS-12190	12	190	Hex
R-STUDS-12220	12	220	Hex
R-STUDS-12260	12	260	Hex
R-STUDS-12300	12	300	Hex
R-STUDS-16190	16	190	Hex
R-STUDS-16220	16	220	Hex
R-STUDS-16260	16	260	Hex
R-STUDS-16300	16	300	Hex
R-STUDS-16380	16	380	Hex
R-STUDS-20260	20	260	Hex
R-STUDS-20300	20	300	Hex
R-STUDS-24300	24	300	Hex
R-STUDS-30380	30	380	Hex
R-STUDS-10130-FL	10	130	Flat
R-STUDS-16260-FL	16	260	Flat
R-STUDS-20350-FL	20	350	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.

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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-08110	pcs.	10.0	10.0	9350.0	0.4	0.4	406.7	5906675127477
R-STUDS-08160	pcs.	10.0	10.0	5040.0	0.6	0.6	295.3	5906675234649
R-STUDS-10130	pcs.	10.0	10.0	9350.0	0.8	0.8	757.4	5906675127484
R-STUDS-10170	pcs.	10.0	10.0	4160.0	1.0	1.0	431.8	5906675234663
R-STUDS-10190	pcs.	10.0	10.0	2560.0	1.1	1.1	285.7	5906675234670
R-STUDS-12160	pcs.	10.0	10.0	5040.0	1.3	1.3	668.3	5906675127491
R-STUDS-12190	pcs.	10.0	10.0	2560.0	1.6	1.6	400.6	5906675234694
R-STUDS-12220	pcs.	10.0	10.0	2560.0	1.8	1.8	453.1	5906675234700
R-STUDS-12260	pcs.	10.0	10.0	3840.0	2.1	2.1	797.2	5906675234717
R-STUDS-12300	pcs.	10.0	10.0	1920.0	2.4	2.4	452.0	5906675234731
R-STUDS-16190	pcs.	10.0	10.0	2560.0	2.9	2.9	742.9	5906675130903
R-STUDS-16220	pcs.	10.0	10.0	320.0	3.2	3.2	102.1	5906675234748
R-STUDS-16260	pcs.	10.0	10.0	1920.0	3.8	3.8	736.3	5906675234755
R-STUDS-16300	pcs.	5.0	5.0	960.0	2.2	2.2	420.5	5906675234762
R-STUDS-16380	pcs.	2.0	2.0	1320.0	1.2	1.2	797.3	5906675234779
R-STUDS-20260	pcs.	10.0	10.0	1300.0	6.0	6.0	777.4	5906675234786
R-STUDS-20300	pcs.	10.0	10.0	1170.0	6.8	6.8	792.8	5906675379463
R-STUDS-24300	pcs.	2.0	2.0	800.0	2.1	2.1	846.0	5906675260433
R-STUDS-30380	pcs.	2.0	2.0	400.0	3.9	3.9	780.0	5010445001611
R-STUDS-10130-FL	pcs.	10.0	10.0	5040.0	0.8	0.8	0.0	5010445001482
R-STUDS-16260-FL	pcs.	10.0	10.0	1920.0	3.8	3.8	0.0	5906675260419
R-STUDS-20350-FL	pcs.	5.0	5.0	960.0	4.0	4.0	764.2	5906675234793

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