UNIVERSAL

R-STUDS 8.8

THREADED ROD FOR USE WITH BONDED ANCHORS IN VARIOUS SUBSTRATES

A threaded rod made of high-strength steel grade 8.8. The rod is used in projects requiring high load-bearing capacity and reliability. The surface of the rod is coated with a hot-dip galvanized (HDG) layer, providing corrosion protection.

FEATURES AND BENEFITS

- Threaded rod made of hot dip galvanized steel is suitable for outdoor use and in damp conditions.
- Can be post-installed through fixture in some cases. (Consult technical advisory service).
- Hexagonal head for convenient use with torque wrench.
- Flat head for quick manual installation without a setting tool.
- The steel grade 8.8 provides enhanced tensile and shear strength for the rod
- 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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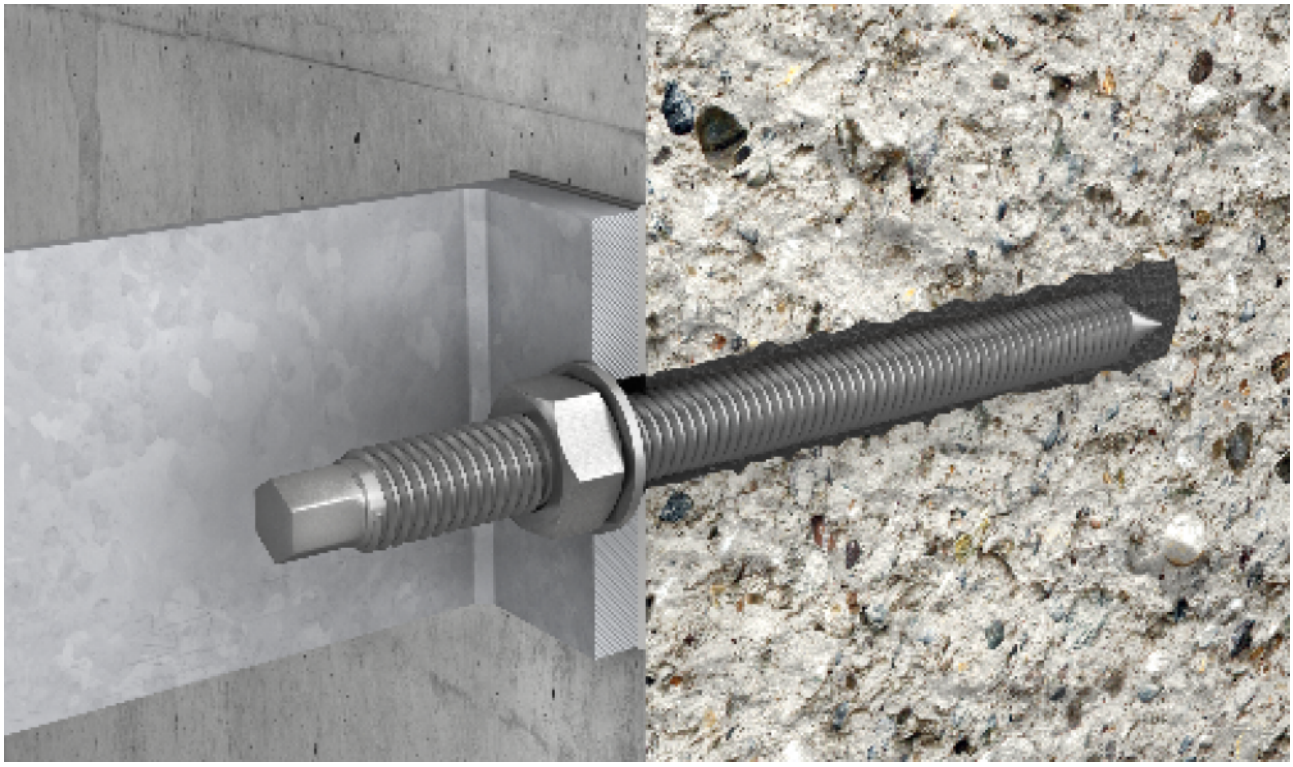

APPLICATIONS

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

Poland
S7 Expressway

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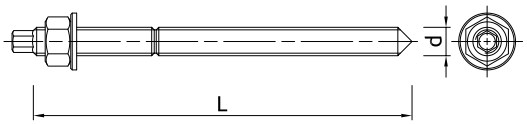
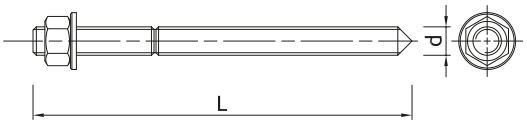


R-STUDS



R-STUDS-FL

SKU	Metric rods		
	Diameter	Length	Rod end
	d	L	-
	mm	mm	-
R-STUDS-16190-88HD	16	190	Hex
R-STUDS-16220-88HD	16	220	Hex
R-STUDS-16260-88HD	16	260	Hex
R-STUDS-16300-88HD	16	300	Hex
R-STUDS-20260-88HD	20	260	Hex
R-STUDS-20300-88HD	20	300	Hex
R-STUDS-24300-88HD	24	300	Hex
R-STUDS-30380-88HD	30	380	Hex
R-STUDS-1622088HDF	16	220	Flat
R-STUDS-1626088HDF	16	260	Flat
R-STUDS-1630088HDF	16	300	Flat
R-STUDS-2026088HDF	20	260	Flat
R-STUDS-2038088HDF	20	380	Flat
R-STUDS-2430088HDF	24	300	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]	800	800	800	800	800	800	800
Nominal yield strength	f_{yk}	[N/mm²]	640	640	640	640	640	640	640
Cross sectional area	A_s	[mm²]	36,6	58	84,3	156,7	244,8	352,3	560,6
Elastic section modulus	W_{el}	[mm³]	31,2	62,3	109,1	276,6	540,2	932,8	1872,1
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	30	60	105	266	519	898	1799

DESIGN PERFORMANCE DATA

Size			M8	M10	M12	M16	M20	M24	M30
TENSION LOAD, STEEL FAILURE									
Characteristic resistance	$N_{Rk,s}$	[kN]	29	46	67	125	196	282	448
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]	14,6	23,2	33,7	62,7	97,9	140,9	224,2
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-16190-88HD	pcs.	10.0	10.0	2560.0	2.9	2.9	734.7	5906675085579
R-STUDS-16220-88HD	pcs.	10.0	10.0	2160.0	3.4	3.4	723.6	5906675555669
R-STUDS-16260-88HD	pcs.	10.0	10.0	1920.0	3.8	3.8	735.0	5906675555676
R-STUDS-16300-88HD	pcs.	5.0	5.0	960.0	2.2	2.2	431.2	5906675429045
R-STUDS-20260-88HD	pcs.	5.0	5.0	960.0	3.0	3.0	574.5	5906675153810
R-STUDS-20300-88HD	pcs.	10.0	10.0	1080.0	6.8	6.8	729.9	5906675471518
R-STUDS-24300-88HD	pcs.	2.0	2.0	780.0	2.0	2.0	787.8	5906675429052
R-STUDS-30380-88HD	pcs.	2.0	2.0	480.0	4.0	4.0	948.0	5906675429069
R-STUDS-1622088HDF	pcs.	10.0	10.0	2240.0	3.2	3.2	719.5	5906675486550

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R-STUDS-1626088HDF	pcs.	10.0	10.0	2080.0	3.7	3.7	771.3	5906675484846
R-STUDS-1630088HDF	pcs.	5.0	5.0	1040.0	2.1	2.1	444.3	5906675550930
R-STUDS-2026088HDF	pcs.	10.0	10.0	1200.0	6.2	6.2	747.6	5906675489230
R-STUDS-2038088HDF	pcs.	2.0	2.0	286.0	0.0	0.0	0.0	5906675658872
R-STUDS-2430088HDF	pcs.	2.0	2.0	780.0	2.0	2.0	797.6	5906675559940

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