

# 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

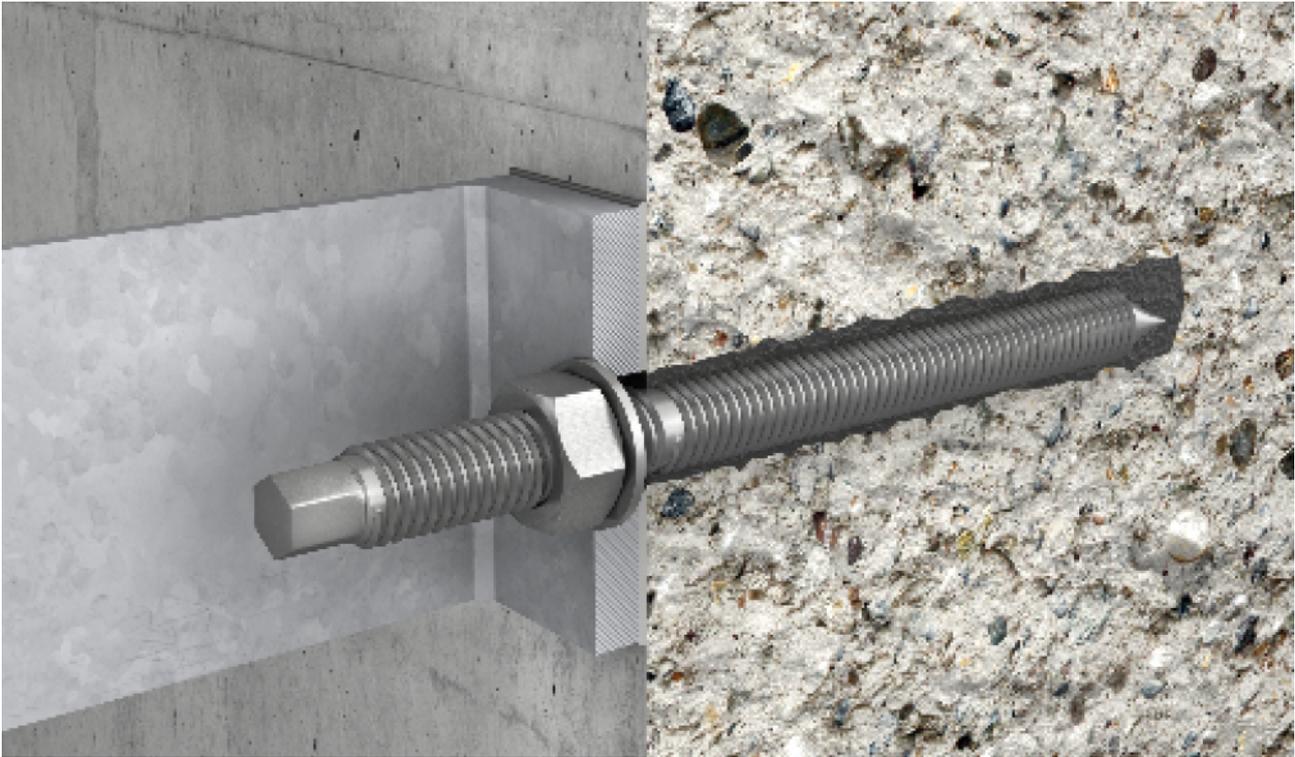


Hollow brick



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## APPLICATIONS

Anchoring glued in with threaded rods

Barriers

Blinds and awnings

Ceiling mounts

Elevators and escalators

Pipelines

Steel structures



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R-STUDS

R-STUDS-FL

SKU	Metric rods		
	Diameter	Length	Rod end
	d mm	L 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-2430088HDF	24	300	Flat

## MECHANICAL PROPERTIES ▾

			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/mm <sup>2</sup> ]	800	800	800	800	800	800	800
Nominal yield strength	$f_{yk}$	[N/mm <sup>2</sup> ]	640	640	640	640	640	640	640
Cross sectional area	$A_s$	[mm <sup>2</sup> ]	36,6	58,0	84,3	156,7	244,8	352,3	560,6
Elastic section modulus	$W_{el}$	[mm <sup>3</sup> ]	31,2	62,3	109,1	276,6	540,2	932,8	1872,1
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	30,0	60,0	105,0	266,0	519,0	898,0	1799,0

## DESIGN PERFORMANCE DATA ▾

Size			M8	M10	M12	M16	M20	M24	M30
<b>TENSION LOAD, STEEL FAILURE</b>									
Characteristic resistance	$N_{Rk,s}$	[kN]	29,0	46,0	67,0	125,0	196,0	282,0	448,0
Partial safety factor <sup>1)</sup>	$\gamma_{MS}$	[-]	1,50	1,50	1,50	1,50	1,50	1,50	1,50
<b>SHEAR LOAD, STEEL FAILURE</b>									
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 <sup>1)</sup>	$\gamma_{MS}$	[-]	1,25	1,25	1,25	1,25	1,25	1,25	1,25

<sup>1)</sup> 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	1990.0	0.0	0.0	0.0	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	4200.0	0.0	0.0	0.0	5906675486550

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## LOGISTICAL DATA

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R-STUDS-1626088HDF	pcs.	10.0	10.0	2500.0	0.0	0.0	0.0	5906675484846
R-STUDS-1630088HDF	pcs.	5.0	5.0	960.0	0.0	0.0	0.0	5906675550930
R-STUDS-2026088HDF	pcs.	10.0	10.0	1200.0	6.2	6.2	747.6	5906675489230
R-STUDS-2430088HDF	pcs.	2.0	2.0	770.0	0.0	0.0	0.0	5906675559940

## RELATED PRODUCTS

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