UNIVERSAL

R-STUDS-A4

THREADED ROD FOR USE WITH BONDED ANCHORS IN VARIOUS SUBSTRATES

Threaded rod made of A4 stainless steel with enhanced corrosion resistance, designed for use in extremely aggressive environments – both chemical and atmospheric.



FEATURES AND BENEFITS

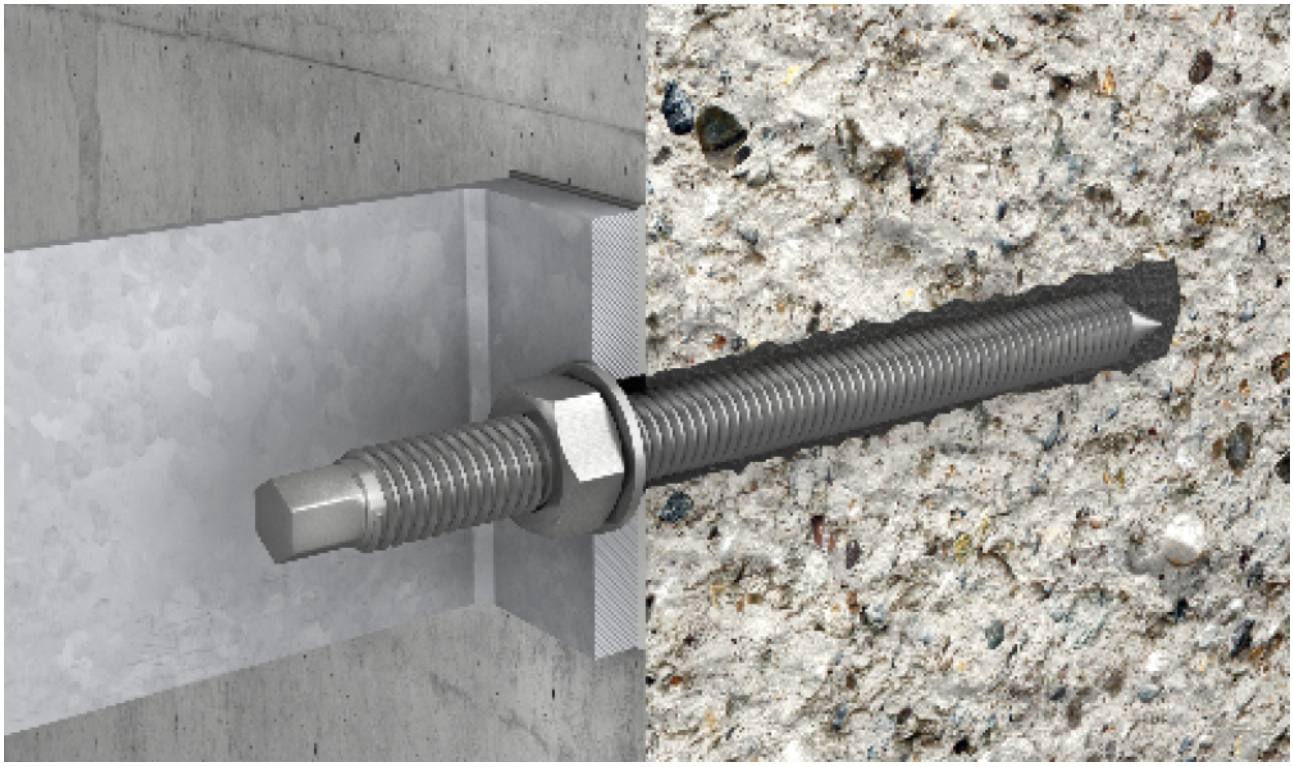
- Stainless steel anchor for the highest corrosion resistance.
- Hexagonal head for convenient use with torque wrench.
- Flat head for quick manual installation without a setting tool.
- Highest quality ensures maximum load capability.
- High quality workmanship.
- For use with all chemical anchors in 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
- Pipelines
- Steel structures
- Tunnels

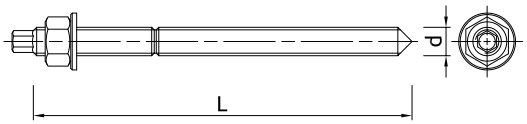




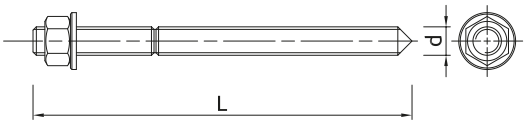
Poland
S7 Expressway

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R-STUDS



R-STUDS-FL

SKU	Metric rods		
	Diameter	Length	Rod end
	d	L	-
	mm	mm	-
R-STUDS-10170-A4FL	10	170	Flat
R-STUDS-12190-A4FL	12	190	Flat
R-STUDS-16220-A4FL	16	220	Flat
R-STUDS-08110-A4	8	110	Hex
R-STUDS-08160-A4	8	160	Hex
R-STUDS-10130-A4	10	130	Hex
R-STUDS-12160-A4	12	160	Hex
R-STUDS-12300-A4	12	300	Hex
R-STUDS-16190-A4	16	190	Hex
R-STUDS-20260-A4	20	260	Hex
R-STUDS-24300-A4	24	300	Hex

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]	700	700	700	700	700	700	700
Nominal yield strength	f_{yk}	[N/mm²]	450	450	450	450	450	450	450
Cross sectional area	A_s	[mm²]	36,6	58,0	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]	26,0	52,0	92,0	233,0	454,0	786,0	1574,0

DESIGN PERFORMANCE DATA

Size			M8	M10	M12	M16	M20	M24	M30
TENSION LOAD, STEEL FAILURE									
Characteristic resistance	$N_{Rk,s}$	[kN]	25,0	40,0	59,0	109,0	171,0	247,0	392,0
Partial safety factor[1)]	γ_{MS}	[-]	1,87	1,87	1,87	1,87	1,87	1,87	1,87
SHEAR LOAD, STEEL FAILURE									
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	12,8	20,3	29,5	54,8	85,7	123,3	196,2
Partial safety factor[1)]	γ_{MS}	[-]	1,56	1,56	1,56	1,56	1,56	1,56	1,56

[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-10170-A4FL	pcs.	10.0	10.0	2560.0	1.0	1.0	258.6	5906675261409
R-STUDS-12190-A4FL	pcs.	10.0	10.0	5760.0	1.6	1.6	0.0	5906675261393
R-STUDS-16220-A4FL	pcs.	10.0	10.0	1000.0	3.3	3.3	0.0	5906675267425
R-STUDS-08110-A4	pcs.	10.0	10.0	8500.0	0.4	0.4	365.5	5010445001642
R-STUDS-08160-A4	pcs.	10.0	10.0	5040.0	0.6	0.6	302.4	5906675324920
R-STUDS-10130-A4	pcs.	10.0	10.0	6480.0	0.8	0.8	535.2	5906675234823
R-STUDS-12160-A4	pcs.	10.0	10.0	5760.0	1.4	1.4	778.8	5906675234830
R-STUDS-12300-A4	pcs.	10.0	10.0	1920.0	2.4	2.4	457.0	5906675324975
R-STUDS-16190-A4	pcs.	10.0	10.0	2560.0	2.9	2.9	749.1	5906675234847
R-STUDS-20260-A4	pcs.	5.0	5.0	1200.0	3.1	3.1	738.0	5906675234854
R-STUDS-24300-A4	pcs.	2.0	2.0	600.0	2.1	2.1	626.4	5906675176406

R-STUDS-A4

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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** 		