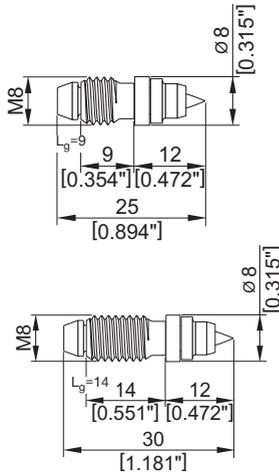


X-ST-GR Stainless Steel Threaded Studs for Fastening to Steel

Product data

Dimensions



General information

Material specifications

Shank: P558 (CrMnMo alloy)

$f_u \geq 2000 \text{ N/mm}^2$

Threaded sleeve: A4 (AISI 316)

Washers: polyethylene

Recommended fastening tools

DX 460, DX 5 with fastener guide X-5-460-F8N15

DX 76 PTR with fastener guide X-76-F-8-GR-PTR

See **X-ST-GR fastener program** in the next pages and **Tools and equipment** chapter for more details.

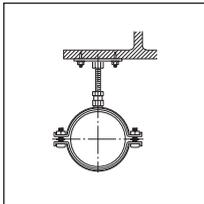
Approvals

ICC ESR-2347

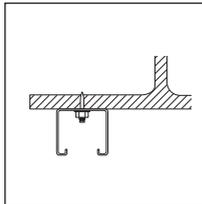
ABS

Applications

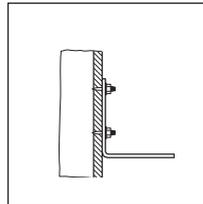
Examples



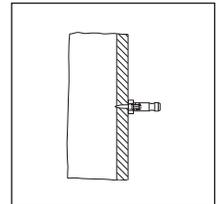
Base plates for pipe rings



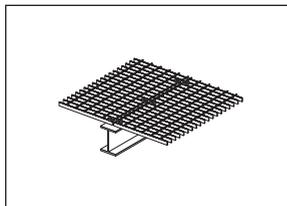
Installation rails



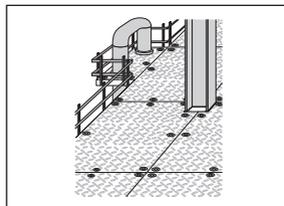
Facade brackets



Special purpose connections



Grating



Checker plate

Load data

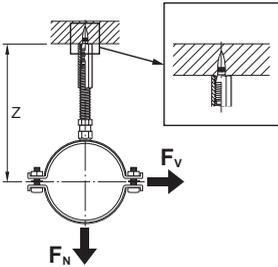
Recommended loads

N_{rec} [kN]	V_{rec} [kN]	M_{rec} [Nm]
1.8	1.8	5.5

Condition:

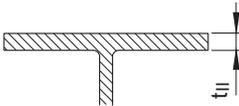
- For safety-relevant fastenings sufficient redundancy of the entire system is required.

Arrangements to reduce or prevent moment on shank:



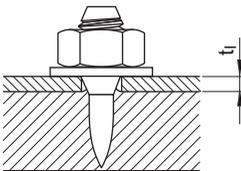
Application requirements

Thickness of base material



$$t_{II} \geq 6 \text{ mm}$$

Thickness of fastened material

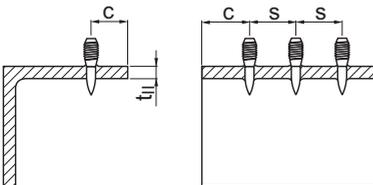


$$t_I \leq L_g - t_{\text{washer}} - t_{\text{nut}}$$

$$t_I \leq 10 \text{ mm for X-ST-GR M8/10 P8}$$

$$t_I \leq 5 \text{ mm for X-ST-GR M8/5 P8}$$

Spacing and edge distances (mm)



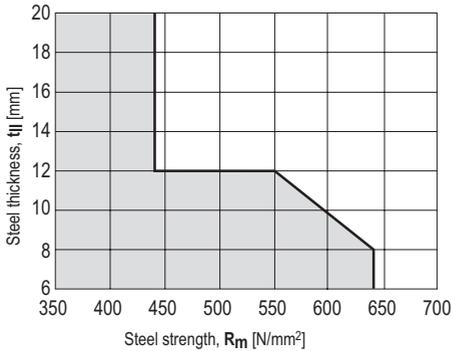
$$c, s \geq 15 \text{ mm}$$

Corrosion information

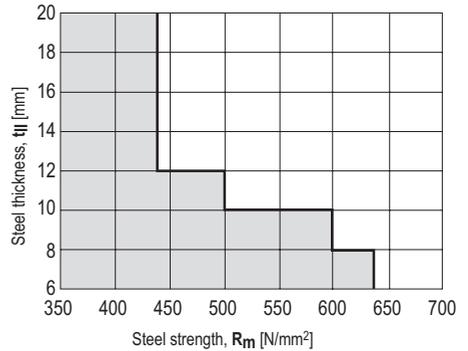
For fastenings exposed to outdoor environments in mildly corrosive conditions where HDG coated parts are commonly specified or used. Not for use in atmospheres with chlorides (marine atmospheres) or in heavily polluted environments (e.g. sulphur dioxide).

Application limit

Steel: DX 460, DX 5



Steel: DX 76 PTR



Fastener selection and system recommendation

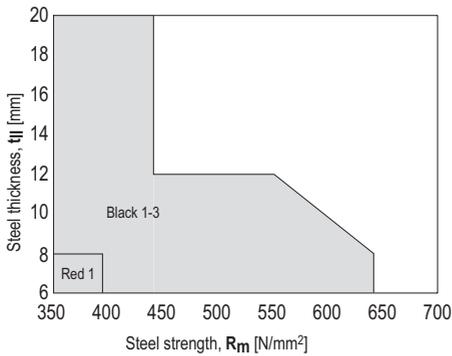
Fastener program

Designation	Item no.	L _g [mm]
X-ST-GR M8/5 P8	2122209	9
X-ST-GR M8/10 P8	2122460	14

Cartridge selection

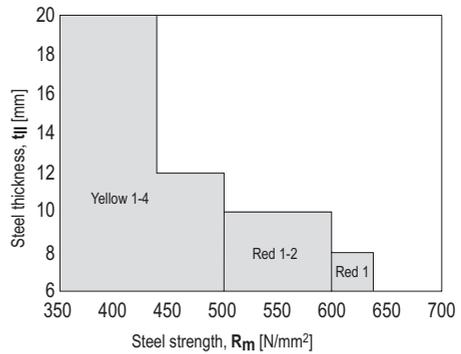
DX 460, DX 5

6.8/11M black or red cartridge



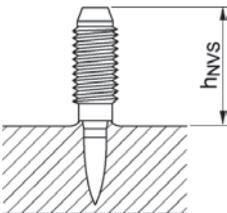
DX 76 PTR

6.8/18M yellow or red cartridge

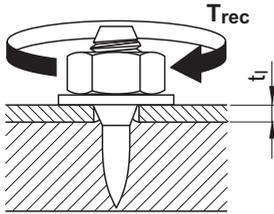


Fastening quality assurance

Fastening inspection



Fastener	h _{NVS} [mm]
X-ST-GR M8/5 P8	12.0 – 15.0
X-ST-GR M8/10 P8	17.0 – 20.0

Installation

Tightening torque
 $T_{rec} = 8.5 \text{ Nm}$

