

Grating Fastening Systems

Securely and easily fastened

With simple and efficient fastening systems for gratings.

Fastening gratings on steel structures has never been easier. The consistently high-performing Hilti solutions adapt perfectly any project requirement in all environments. All Hilti grating fasteners are highly productive as they can be installed conveniently by just one person working from above the grating, thus saving time and costs. Gratings can be fastened with maximum reliability and safety, faster than ever before.



Quick and secure

Fastening gratings has never been easier.



Save time, cut costs

Hilti grating fasteners are designed for productivity and can be installed in a fraction of the time taken by most traditional solutions.

Vibration resistant

The cleverly designed fasteners resist vibration transmitted by grating plates and structural steel beams.



The Hilti X-GR RU grating fastener is fast, convenient and can be easily removed if required.



Simple and convenient

The fasteners can be installed by just one person working from above the grating. Scaffolds are not needed.

Perfect fit

A full range of grating fasteners is available, meeting all requirements in all environments from large industrial floors to small projects, from offshore platforms to factory floors.



Hilti X-FCM-R is the perfect fit where safety is paramount and corrosion resistance is an important issue



Durable and reliable

Hilti grating fasteners are available in various materials to meet varying corrosion resistance requirements.

Maximum safety

Gratings can be installed with maximum reliability and safety – more quickly, more easily and more safely than ever before.



The X-MGR is designed to bring maximum flexibility to smaller grating projects.

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X-FCM-R with X-BT – simply the best
Arguably the most widely specified proprietary grating fastener worldwide, the Hilti X-FCM-R stainless steel disc with the stainless steel X-BT stud is simply the best solution for offshore structures and highly corrosive environments. Hilti X-BT can be fastened to pre-painted steel without damaging the surface.



X-GR RU – top productivity and cost savings.
Featuring a pre-assembled saddle, screw and pin, the X-GR RU grating fastener raises productivity significantly. The saddle can be removed easily for grating maintenance



X-FCM-M with X-CRM – field proven for decades
The duplex-coated X-FCM-M disc in combination with the stainless steel X-CRM threaded stud is the right grating fastening solution for onshore structures and mildly corrosive environments.



X-PGR RU – secure with no application limits.
The pre-drilled version of the X-GR RU ensures highest fastening quality wherever your job is. Also here – the saddle can be removed easily for grating maintenance.



X-MGR – your access problems solved.
The hot-dip galvanized Hilti X-MGR mechanical clamp comes pre-assembled for maximum installation ease and speed. Like all other Hilti grating fastening systems, the X-MGR can be installed by just one person working from above the grating.



The Hilti Grating Fastening Systems.

Performance Data

	X-BT X-FCM-R	X-CRM X-FCM-M	X-GR RU	X-PGR RU	X-MGR
Application environment	Offshore/highly corrosive	Onshore/mildly corrosive	Onshore/mildly corrosive	Onshore/mildly corrosive	Onshore/mildly corrosive
Material specification	Stainless steel A4	Duplex coated	Duplex coated	Duplex coated	Hot-dip galvanized
Steel base material thickness	≥ 8 mm	6 – 8 mm	4 – 9 mm	≥ 6 mm	≥ 3 mm
Recommended tensile loads (N _{rec})	1.0 kN	0.8 kN	0.8 kN	0.8 kN	0.8 kN
Grating heights	25 – 50 mm*	25 – 50 mm*	25 – 40 mm	25 – 40 mm	25 – 40 mm
Vibration resistance	Yes	Yes	Yes	Yes	No
Approvals	X-BT: ABS, GL, LR, DNV X-FCM-R: ABS, GL, LR, DNV	X-CRM: ABS, LR X-FCM-M: ABS, GL, LR, DNV			
Recommended DX tool	DX 351 BTG	DX 460-GR	DX 460-GR	DX 460-GR	Screw driver e.g. SFC 14-A

* Max. grating height is 80 mm with the X-SEA-R 30 M8 extension adapter

