



Application

For mechanically fixing (stitching) two metal sheets up to 1mm thick together

Fastener Material

Fastener	Carbon steel case hardened with multiple layer organic coating
Sealing Washer	A19 Washer

Approvals

  **ETA-20/1178**

Documentation

- CCPI Verification
- Approval Document (ETA)
- Declaration of Performance (DoP)

Fastener		Effective Thread Length	
SKU	Washer	Min	Max
MF2-A15-8.0 x 25	A15 Washer	0.8 mm	2 mm
MF2-A19-8.0 x 25	A19 Washer	0.8 mm	2 mm

Installation Speed	Head Style	Drive Type
1500 RPM	Bi-Hex 11mm	Fixfast Matchfast BlueDrive

Installation Tool

Variable speed electric screw gun

Installation Guidance

Fasteners should be driven within three degrees of perpendicular to the surface of the fastened material. Use a depth-setting nosepiece to avoid over-driving, and do not over-tighten. Variants with bonded washers should not have the rubber compressed to less than two-thirds of its uncompressed height. Care should be taken when engaging and disengaging from the fastener head to avoid damage to the protective coating.

Health & Safety

Fasteners may have sharp edges, and the use of power tools can be dangerous. Use personal protective equipment. Store fasteners in dry conditions. Inspect each fastener before use and do not use damaged fasteners.

Fastener Shear Performance $V_{R,K}$

Substrate	Steel	0.5 mm
Steel		
0.5 mm		1.53 kN

Fastener Pullover Performance $N_{R,K}$

Substrate	Steel	A19 Washer
Steel		0.5 mm
0.5 mm		3.38 kN

Performance

$N_{R,II,K}$ 0.5mm Steel: 0.91 kN
(Tensile - Pull-out)

Tensile (pullout/pullover) and Shear tests carried out according to the method set out in the relevant EAD, and product ETA. Materials: Steel grade S250GD nominal up to 3mm, S275JR for thicknesses 4mm and greater. Substrate I is the material being fixed. Substrate II is the structural member being fixed to. Results shown are characteristic values calculated according to EN 1993 -1-3/ EAD 330046-01-0602.

Durability Class

Corrosivity Category	Years / Environment					
	Interior	Rural	Urban	Industrial / Coastal	Marine	Swimming pools & Chemical plants
	C1	C2	C3	C4	C5	-
Carbon steel case hardened	25	12	0	0	0	0

Usage Conditions

The fasteners are for use with the substrates and materials shown in this datasheet within the limits stated. The fixing area must be solid with no perforations and must be chemically inert and dry. These fasteners are not suitable for use with aluminium profiles due to the risk of Galvanic Corrosion. The fasteners must be stored with due care and must not be allowed to suffer any corrosion or damage prior to installation.

Fixing patterns must be established on the basis of load calculations to Eurocode standards. It is the designer's responsibility to take into account all loading criteria and apply appropriate safety factors in accordance with performance data issued by Fixfast. The design of the building and application where the fastener is to be used must be to the minimum standard of mechanical performance laid down from time to time in the appropriate Codes of Practice or Building Regulations. Where the fastener is in contact with materials which are not an inherent part of the system being fixed, these materials must be approved by the system manufacturer or relevant body for use with the system and must be chemically inert and dry. Such materials and their effects on the fasteners' performance are not the responsibility of Fixfast.

Fixfast products must be used as a complete system with tools and accessories as recommended, according to Fixfast's recommended procedures and according to good practice as detailed by the appropriate body for the type of work. They must be used only with other Fixfast products where such other products are available. They must not be cut, altered or modified. The stated performance of the fastener will only apply while there is no damage or degradation to the materials and components it is associated with in the application, including damage resulting from incorrect installation, and as long as there is no change to the fasteners' immediate environment.

Performance data is applicable to use with new materials as detailed in a new-build application. Refurbishment or extensions/additions/abutments may be considered new-build if all materials used in conjunction with the fasteners are themselves new and unaffected and uncontaminated by any previous installation. Performance data for fasteners used in refurbishments and in contact with previously used materials must be agreed by Fixfast for each specific project and Fixfast given the opportunity to establish values by testing.