

MEP Flange Repair

Restores structural integrity of steel framing with field modified openings.

The MEP Flange Repair is a one-piece component designed to restore strength and stiffness to cold-formed steel framing members that have been field modified at the job site. It repairs damaged or cut flanges and reinforces oversized web openings, helping return the framing member to its intended structural performance.

The single-piece design allows for efficient installation around installed MEP components, making it ideal for corrective field conditions. The MEP Flange Repair restores structural integrity and improves load transfer in steel framing members with oversized or improperly located openings.



Multiple Sizes for Common Stud Depths

- Available for use with 3-5/8" framing and 6" framing to match typical wall assemblies.

Drywall and Structural Stud Applications

- Offered in two steel thicknesses to accommodate both drywall studs and structural studs.

MATERIAL SPECIFICATIONS

Gauge: 18 gauge (43mil)

Gauge: 14 gauge (68mil)

Design Thickness: 0.0451 inches

Design Thickness: 0.0713 inches

Yield Strength: 50ksi

Coating: G90

CODE APPROVALS AND PERFORMANCE STANDARDS

AISI S100



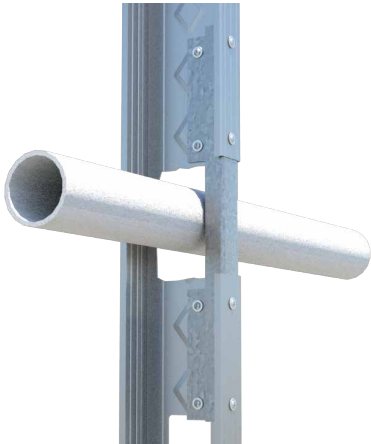
MEP Flange Repair

Product Code	Thickness mils (ga)	Design Thickness (in)	Clip Width (in)	Clip Length (in)	Packaging Clips/Bucket
MEP3-F-43	43 (18)	0.0451	1-13/16	12	25
MEP3-F-68	68 (14)	0.0713	1-13/16	12	25
MEP6-F-43	43 (18)	0.0451	3	12	25
MEP6-F-68	68 (14)	0.0713	3	12	25

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INSTALLATION

Field cut holes shall not exceed 4" in height and must have 1/2" minimum web remaining. Place the MEP Flange Repair on the inside web of the framing member, aligning the part over the field-modified opening and damaged flange area. Ensure the repair is centered on the stud. Secure the MEP Flange Repair using eight (8) #10 self-drilling fasteners to the web and four (4) #10 self-drilling fasteners to the flange. All fasteners shall be located 1/2" from the cut edges of the repair component (both web and flanges). Fasteners shall be centered to the stud flanges to ensure proper load transfer. Installation shall not interfere with installed MEP components.



NON-STRUCTURAL STUD APPLICATIONS

Product Code	Framing Depth (in)	Part Thickness mils (ga)	Stud Type	Compatible Stud Thickness	Performance Notes
MEP3-F-43	3-5/8	43 (18)	Drywall	15mil - 33mil	Designed for non-structural drywall framing
MEP6-F-43	6	43 (18)	Drywall	15mil - 33mil	Designed for non-structural drywall framing

STRUCTURAL STUD APPLICATIONS

Product Code	Framing Depth (in)	Part Thickness mils (ga)	Stud Type	Compatible Stud Thickness	Performance Notes
MEP3-F-68	3-5/8	68 (14)	Structural	33mil - 97mil	May be used on 68mil (slight flexural stiffness reduction) and 97mil (reduced flexural strength and stiffness)
MEP6-F-68	6	68 (14)	Structural	33mil - 97mil	May be used on 68mil (slight flexural stiffness reduction) and 97mil (reduced flexural strength and stiffness)

FLANGE REPAIR CLIP: FLEXURAL STIFFNESS/STRENGTH ADJUSTMENT FACTORS

Framing Member mil (ga)	Thickness (in)	Yield Strength Fy, ksi	Flange Repair Clip (WRU)	Adjustment Factor	
				Flexural Stiffness	Flexural Strength
15 (25 EQ)	0.0158	50	18ga	1.00	1.00
18 (20 EQ)	0.0190	70		1.00	1.00
30 (20)	0.0312	33		1.00	1.00
33 (20)	0.0346	33		1.00	1.00
33 (20) STR	0.0346	33	14ga	1.00	1.00
43 (18)	0.0451	33		1.00	1.00
54 (16)	0.0566	50		1.00	1.00
68 (14)	0.0713	50		1.00	0.85
97 (12)	0.1017	50		0.85	0.50

Notes:

- 1 Fasteners attached to the MEP Flange Repair Clips shall be located at 1/2" from the cut edges of the clip (for both flanges & web) and centered to the stud flange.
- 2 MEP Flange Repair Clip attached to stiffen the framing member (field-cut opening) using eight (8) #10 self-drilling fasteners to the web and four (4) #10 self-drilling fasteners to the flange.
- 3 These adjustment factors are applicable when the oversized holes are at least 4" away from the edge of the standard punchout.
- 4 18ga MEP Flange Repair Clip adjustment factors apply to ClarkDietrich ProSTUD® products.
- 5 14ga MEP Flange Repair Clip adjustment factors apply to structural studs with 1-5/8" flanges.
- 6 Strength adjustment factors apply to flexural and shear capacities. If axial or web crippling capacities are a concern, they need to be checked separately.

