GypFast fasteners for the attachment of gypsum sheathing to light gage steel framing

PIN SPECIFICATIONS

- Made from AISI 1060-1065 steel. Austempered to a core hardness of 52-56 Rc
- Typical tensile strength: 270,000 psi
- Typical shear strength: 162,000 psi
- **STANDARD FINISHES**
  Mechanical zinc plate to a minimum thickness of .0002 meets requirements of ASTM B695

  Climacoat

APPROVALS/LISTINGS

- **ICC Evaluation Service, Inc.**

  #ESR-2174 GypFast Gypsum Sheathing
  #ER-5380 GypFast Plywood Sheathing
- **City of Los Angeles**

  #RR-25638 GypFast

Allowable Negative Loads Using Ramset GypFast Fasteners

SHEATHING TYPE	MINIMUM STEEL STUD GAGE	MAXIMUM STEEL STUD SPACING (IN)	FASTENER SPACING (IN)	ALLOWABLE NEGATIVE LOAD (PSF)
1/2" GP DensGlass Gold Exterior Sheathing	20g to 12g	24	8	6
		16	8	8
5/8" GP DensGlass Gold Fireguard Type X Sheathing	20g to 12g	24	8	24
		16	8	32
1/2" USG Sheetrock Brand Sheathing	20g to 12g	24	8	12
		16	8	16
5/8" USG Sheetrock Brand Fire Code Type X Sheathing	20g to 12g	24	8	18
		16	8	24
1/2" USG Fiberock Brand Aquatough	20g to 12g	24	8	30
		16	8	40
5/8" USG Securock Glass-Mat Sheathing	18g	16	8	35
5/8" CertainTeed GlasRoc Sheathing Type X	18g	24	8	20
5/8" CertainTeed GlasRoc Sheathing Type X	16g	24	8	18
National Gypsum e2XP Extended Exposure Sheathing	18g	16	8	39

Note 1: Tested in accordance with ASTM E330. **Note 2:** Values shown reflect a 3:1 safety factor. **Note 3:** The fasteners must be driven to a depth at which the shank pierces the steel, such that the tip protrudes from the base metal a minimum of 1/2-inch. **Note 4:** Tabulated values do not allow any overdriving of fasteners into sheathing.

CORROSION DATA ASTM B117 SALT SPRAY

GF112		S-12 SELF DRILL SCREW
1560 hours (10% Red Rust)	Driven	
3240 Hours (10% Red Rust)	UnDriven	24 Hours (5% Red Rust)

GypFast Fastener has Climacoat Long Life Polymer Coating; S-12 Screw has .0002" Electrozinc and Clear Chromate.

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Allowable Withdrawl and Lateral Loads for a GypFast Fastener Used to Attach Structural Plywood Panels to Steel Framing Members [1,2,3]

MINIMUM STEEL THICKNESS (gage)[4]	MINIMUM THICKNESS OF STRUCTURAL PANELS				MINIMUM THICKNESS OF STRUCTURAL PANELS			
	3/8 Inch	15/32 Inch	19/32 Inch	23/32 Inch	3/8 Inch	15/32 Inch	19/32 Inch	23/32 Inch
	WITHDRAWL LOADS (POUNDS)				LATERAL LOADS (POUNDS)			
14	90	90	95	120	135	160	190	215
16	90	90	90	110	135	160	165	185
18	90	90	90	90	135	160	160	160
20	70	70	70	70	110	130	130	130
22	50	50	50	50	110	110	110	110

For SI: 1 Inch = 25.4 mm, 1 Pound = 4.448 N.

[1] Tabulated values are for loads due to wind or earthquake, and must be reduced by 25 percent for other applications.

[2] Tabulated values allow for no more than 20 percent of the fasteners to be overdriven more than 1/16 inch.

[3] Minimum edge distance and spacing are 3/8 inch and 3 inches, respectively.

[4] Section 2.2.3 describes minimum base-material thicknesses associated with gages.

Allowable Shear for Wind Forces for Structural Plywood Shear Walls Attached to Light Gage Steel Studs with GypFast Fasteners[1,2,3] (pounds per foot)

PANEL TYPE	MINIMUM PANEL THICKENESS	FRAMING		FASTENER SPACING [4,5] (INCHES ON CENTER)			
		MINIMUN GAGE[6]	SPACING (INCHES ON CENTER)	6	4	3	2
Structural I or Rated Sheathing and Siding	3/8	22	16	180	270	360	459
	3/8		24	144	216	288	367
	15/32		16 or 24	170	255	340	433
	3/8	20	16	180	270	360	459
	3/8		24	144	216	288	367
	15/32		16 or 24	208	313	417	531
	3/8	18	16	214	321	428	546
	3/8		24	171	257	342	437
	15/32		16 or 24	253	380	506	645
	19/32		16 or 24	259	389	518	661
	23/32		16 or 24	259	389	518	661
	19/32	16	16 or 24	266	399	532	679
	23/32		16 or 24	296	445	593	756
	19/32	14	16 or 24	304	456	608	776
	23/32		16 or 24	345	517	690	879

For SI: 1 Inch = 25.4 mm, 1 Pound/Lineral Foot = 0.0146 N/mm.