

The Steel Network, Inc.

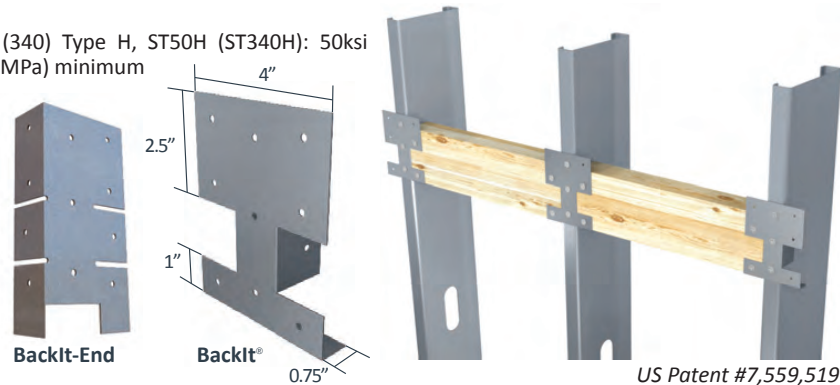
BackIt® Rigid Wall Backing

The Steel Network, Inc.



Material Composition

ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 43mil minimum thickness (18 gauge, 0.0451" design thickness) with ASTM A653/A653M G60 (Z180) hot dipped galvanized coating.



BackIt Allowable Loads

BackIt®, Recommended Allowable Load (lbs) (in-lbs or in-lbs/rad): F2 & F3 & M1							
Stud		F2 Load Direction (lbs)		F3 Load Direction (lbs)		M1 Load Direction	
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws	Moment w/3 #12 screws	Stiffness up to 0.02 rad
18 (25)	33	-	156*	-	225	221	16,800
27 (22)	33	-	234	278	417	332	
30 (20dw)	33	-	258	322	483	366	
33 (20)	33	-	285	376	564	404	
33 (20)	50	276	391	544	816	587	
43 (18)	33	248	372	560	840	527	
43 (18)	50	358	391	810	1,215	761	
54 (16)	33	312	391	822	1,233	663	
54 (16)	50	391	391	1,140	1,388	956	
68 (14) & 97 (12)	50	391	391	1,136	1,388	967	
Maximum Allowable Clip Load		391		1,388		967	16,800

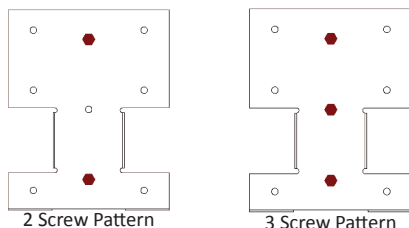
Notes:

- The recommended allowable loads and moments reported in this table are for the clip and attachment to the stud only. The attachment to the backing material must be designed by a design professional.

* Additional screws may be added to increase the allowable load. F2 value with (4) #12 screws is 207 lbs.

IBC (International Building Code) and OSHA (Occupational Safety and Health Administration) load requirements include the ability of wall backing to resist a minimum of 200 lbs of concentrated load, or 50 lbs per linear foot in any direction. BackIt satisfies the load requirements in vertical (F3) and horizontal (F2) directions. Extra testing has been done in the rotational (M1) direction. Product test reports are available upon request. Contact TSN Technical Support at (888) 474-4876 for more information.

Screw Patterns



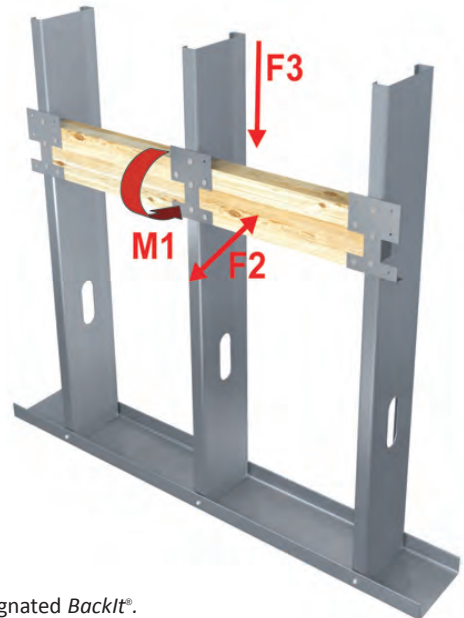
Nomenclature

BackIt is designed to be used with studs having flanges up to 1 5/8" wide*, and is designated BackIt®.

* Custom clips are available by request for use with studs having flanges greater than 1 5/8"

**Also Available by Request: End-of-Run BackIt® to finish walls with a flat angle

Load Direction



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FOR MORE INFORMATION CALL 1-888-926-1365
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