

# B18™ (HARD BOARD) STUD



## WHEN YOU NEED A STRONG STUD, AND ACOUSTICAL DEMANDS ARE HIGH

- Sound performance as good as 25 gauge!
- Structural performance better than 20 gauge!
- Great strength, great privacy!

### STRUCTURE

B18™ (Hard Board) Stud strength is demonstrated by superior limiting height values. Limiting wall heights exceed conventional 20 gauge, see page two.

### SOUND

Measurements of airborne sound transmission loss were performed in accordance with ASTM E90. These tests were performed at NATIONAL RESEARCH COUNCIL OF CANADA for Bailey Metal Products Limited.

B18™ (Hard Board) Stud framing products perform equal or better than conventional 25 gauge framing systems, and much better than comparable assemblies framed with 20 gauge studs.

### COMPOSITE LIMITING HEIGHTS

	5 PSF
24" SPACING, 3-5/8 STUD	L/240
Platinum™ Plus	13'-5"
20 GA Conventional Stud	14'-8"
B18™ Hard Board	15'-6"

### STC PERFORMANCE

24" SPACING, 3-5/8 STUD	2+2 INSULATED
B18™ Hard Board	57 STC
25 GA Standard Stud	56 STC



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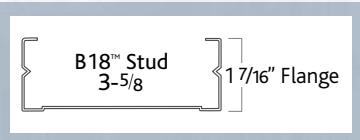
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# B18™ (HARD BOARD) STUD



- Screw penetration and screw performance requirements satisfy the requirements of ASTM 645-14 for 9. Performance Requirements and 10. Penetration Test.
- B18™ (Hard Board) steel stud performs better than conventional interior framing studs.
- The wider flange helps facilitate board applications.



Patent applied for.

## FIRE

Materials and section profile satisfy the requirements of non-load bearing wall stud assemblies as listed by ULC Canada.

## B18™ (HARD BOARD) STUD DRYWALL FRAMING SYSTEM

Interior Composite Limiting Wall Height Table

STUD DESIGNATION	Spacing o.c. (in.)	5 PSF			10 PSF		
		L/120	L/240	L/360	L/120	L/240	L/360
362S150-B18	12	23'-8"	19'-6"	16'-10"	17'-7"f	15'-6"	13'-4"
	16	21'-6"	17'-8"	15'-4"	15'-3"f	14'-1"	12'-2"
	24	17'-7"f	15'-6"	13'-4"	12'-5"f	12'-3"	10'-4"
600S150-B18	12	32'-1"f	27'-7"	23'-11"	22'-8"f	21'-11"	18'-11"
	16	27'-9"f	25'-1"	21'-8"	19'-8"f	19'-8"f	17'-3"
	24	22'-8"f	21'-11"	18'-11"	16'-0"f	16'-0"f	15'-0"

### Max Height Tables General Notes to Tables

- These tables were developed by tests that were performed at Star Testing.
- The loads shown are specified uniform lateral loads.
- B18™ is produced from high quality, material carefully specified to perform to system demands. Roll forming techniques, profile design, and specific material characteristics combine to achieve published wall height tables.
- Spans were achieved utilizing paperfaced gypsum products.
- Allowable composite limiting heights are calculated using ICC-ES AC86-2012.A12.
- The gypsum board must be applied full height and on both sides of the stud framing.
- Minimum material yield strength equals 50 ksi.
- 'f' adjacent to the height value indicates that flexural strength controls the allowable wall height.

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