

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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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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