



FOR STRENGTH, PROTECTION, ACCESS — AND QUIET: **BOISE CASCADE I-JOISTS AND MINERAL WOOL BATTS**

The use of mineral wool batts with I-joists has been a common and practical construction practice for many years. The combination makes good sense for many reasons, including fire protection, sound absorption, and ease of access during and after construction.

Fire Protection

For unfinished basements in residential applications, using BCI® and AJS® joists with mineral wool batts resting on top of the I-joist flanges complies with the fire protection equivalency requirements of the International Residential Code (IRC): 2012 IRC Section R501.3 or 2015/2018 IRC Section R302.13

For 16" and 19.2" o.c. joist spacing (all BCI® and AJS® joist series)

- ▶ Friction fit 2" thick mineral wool batts (2.0 lb/ft³ nominal density)
- ▶ Install stay wire supports at 16" or 19.2" o.c. and no more than 4" from end of batts. Reference APA PR-S201 assembly FP-04

For 24" o.c. I-joist spacing (using BCI® 5000 joist series and larger or all AJS® joist series)

- ▶ 3" thick ROCKWOOL SAFE 'n' SOUND® or approved substitute mineral wool batts (2.5 lb/ft³ nominal density)
- ▶ Install stay wire supports at 24" o.c. and no more than 4" from end of batts.
- ▶ Reference APA PR-S201 assembly FP-09

Ease of Access

Wool batts are lightweight, flexible and semi-permanent so they can be shifted or temporarily removed for easy access to plumbing, heating, and electrical components.

Noise Reduction

Mineral wool batt material provides excellent sound absorption and will help reduce sound transmission between floors in residential and multi-family structures.

MINERAL WOOL ADVANTAGES

- ▶ Fast, easy installation
- ▶ Meets IRC fire-protection equivalency requirements when used with BCI® or AJS® joists
- ▶ Can be used with 16", 19.2" and 24" on-center joist spacing
- ▶ Allows easy post-installation access to plumbing and electrical
- ▶ Helps reduce sound transmission



Boise Cascade I-Joists and Mineral Wool Batts

Every build presents its own challenges when it comes to fire protection. Below are four methods for floor applications that meet IRC Code requirements for wood framing in residential basements. Choose the option that suits your project, your floor plan—and your budget.



DROP-IN DRYWALL uses pre-cut gypsum that drops in between AJS® or BCI® flanges. With no nailing or screwing required, it provides easy access and superior fire protection.



GYPSUM DRYWALL CEILINGS nailed to AJS® or BCI® joists provide about 3x longer fire resistance than 2x10" dimension lumber joists not covered by gypsum.



MINERAL WOOL INSULATION has been in use for decades and installs easily by quickly dropping batts into place between AJS® or BCI® joists



PARTIAL SPRINKLER SYSTEM installed with AJS® or BCI® joists is part of a residential cold water system protecting certain zones of the home.

All these solutions are add-ons to a basic AJS® or BCI® joist inventory, so in addition to fire protection you also get the benefits of our I-joists—no squeaks, consistent sizing, more strength than dimension lumber, ability to cut holes for utilities, and more. For more information, visit bc.com/ewp or call 800-232-0788.

DEALER CONTACT

FASTER. STRONGER. EASIER.



Boise Cascade®
ENGINEERED WOOD PRODUCTS

Visit bc.com/ewp or call 1-800-232-0788

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