



Johns Manville

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A Berkshire Hathaway Company

April 15, 2013

Re: Third Party Testing and Evaluation of Johns Manville's CI Max™ Polyisocyanurate Foam Sheathing Board

To whom it may concern,

Johns Manville's CI Max foam sheathing has been evaluated by Intertek, an independent and certified 3rd party testing laboratory. CI Max has been evaluated for compliance to the applicable sections of the International Residential Code (IRC) and International Building Code (IBC) for foam insulation that can be installed in an exposed condition under certain conditions. This means that under the stated conditions, the installed CI-Max sheathing does not require a thermal barrier or an ignition barrier to separate it from the conditioned space.

Johns Manville's CI Max meets the requirements of the following code sections:

2012 IRC

- Section R302.9.1, R302.9.2, and R302.9.3
 - Wall and ceiling finishes shall have a flame spread index of not greater than 200.
 - Wall and ceiling finishes shall have a smoke-developed index of not greater than 450.
 - Tests shall be made in accordance with ASTM E84 or UL 723.
- Section R316.5.10 Interior finish. Foam plastics shall be permitted as interior finish where approved in accordance with Section R316.6. Foam plastics that are used as interior finish shall also meet the flame spread index and smoke developed index requirements of Sections R302.9.1 and R302.9.2.
- Section R316.6 Specific approval. Foam plastic not meeting the requirements of Sections R316.3 through R316.5 shall be specifically approved on the basis of one of the following approved tests: NFPA 286 with the acceptance criteria of Section R302.9.4, FM4880, UL 1040, or UL 1715, or fire tests related to actual end-use configurations. Approval shall be based on the actual end use configuration and shall be performed on the finished foam plastic assembly in the maximum thickness intended for use.

- Assemblies tested shall include seams, joints and other typical details used in the installation of the assembly and shall be tested in the manner intended for use.

2012 IBC

- Section 2603.10 Special approval. Foam plastic shall not be required to comply with the requirements of Sections 2603.4 through 2603.8 where specifically approved based on large-scale tests such as, but not limited to, NFPA 286 (with the acceptance criteria of Section 803.2), FM 4880, UL 1040 or UL 1715. Such testing shall be related to the actual end-use configuration and be performed on the finished manufactured foam plastic assembly in the maximum thickness intended for use. Foam plastics that are used as interior finish on the basis of special tests shall also conform to the flame spread and the smoke-developed requirements of Chapter 8. Assemblies tested shall include seams, joints and other typical details used in the installation of the assembly and shall be tested in the manner intended for use.

Johns Manville's CI-Max was evaluated by Intertek as follows:

- Flame spread index and smoke-developed index per ASTM E84, test results reported in Intertek Report No. 100731866SAT-003C dated May 29, 2012
- *Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth* per NFPA 286, test results for walls reported in Intertek Report No. G100731866SAT-007B dated July 6, 2012
- *Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth* per NFPA 286, test results for ceilings reported in Intertek Report No. G100731866SAT-019 dated July 24, 2012.

Intertek concluded that:

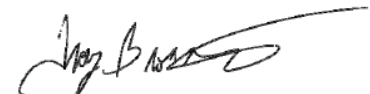
6 Conclusion

NFPA 286 does not publish pass/fail criteria. One must consult the codes to determine pass fail.

This specimen met the criteria set forth in the NFPA 286 (2011 Edition) *Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth*, and 2006 IBC Section 803.2.1. / 2009 IBC Section 803.1.2 and Section 2603.9 / 2012 IBC Section 803.1.2 and Section 2603.10 Special approval for Thermal Barrier Alternatives

INTERTEK TESTING SERVICES NA

Reported by:



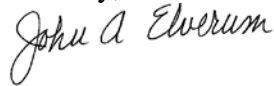
Troy G. Bronstad
Senior Associate Engineer

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The specification compliance for these code sections are also published on the CI Max Product Data Sheet (BID-0142) dated 1/13. In conclusion, Intertek's evaluation of Johns Manville's CI-Max sheathing samples met the aforementioned code requirements for foam sheathing as an exposed interior finish.

Please contact Johns Manville if you have additional questions concerning this matter.

Sincerely,

A handwritten signature in cursive script that reads "John A. Elverum".

John A. Elverum
Johns Manville
Technical Support Representative
303-978-3417