



**Universal Polymers Corporation**  
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April 23, 2020

***RE: Code Compliance of Installed UPC 500 OCX Open-Cell Spray Foam***

To Whom it May Concern,

We are the manufacturer of the UPC 500 OCX. The 500 OCX is fully code compliant with the following portions of IRC Section R316 Foam Plastic:

**R316.3 Surface Burning Characteristics**

UPC 500 OCX has met the criteria of R316.3 with a Flame Spread of 15 and Smoke Developed of 200. Please see the enclosed test report. An excerpt from the actual code section is to the right.

**R316.4 Thermal barrier**

UPC 500 OCX has met the criteria of R316.4 by complying with Section R316.5 as permitted in the code excerpt to the right. R316.6 specifically outlines the non-prescriptive alternative to the thermal barrier requirement. NFPA 286 is the most common test method used. 500 OCX has been tested in accordance with the test method of NFPA 286 and meets the criteria when coated with 20 wet mils of DC315 Intumescent Coating by International Fireproof Technology, Inc. See enclosed report.

**Alternatives to a Prescription Ignition Barrier**

In conditions where only an ignition barrier is required, there is a modified version of the NFPA 286 called the AC377 Appendix X test. This test is permitted based on Section R316.6 where it states, “or fire tests related to actual end-use configurations.” The Appendix X test was developed by the ICC as an actual end-use configuration assembly to meet the requirement as an alternative to a prescriptive ignition barrier. Foam installed in attics and crawl spaces that will NOT be used for storage, and only used to access mechanicals, can be left exposed without a prescriptive ignition barrier if it meets the requirements of ACC 377 Appendix X. UPC 500 Max

**R316.3 Surface burning characteristics**

Unless otherwise allowed in Section R316.5, foam plastic or foam plastic cores used as a component in manufactured assemblies used in building construction shall have a flame spread index of not more than 75 and shall have a smoke-developed index of not more than 450 when tested in the maximum thickness and density intended for use in accordance with ASTM E84 or UL 723. Loose-fill-type foam plastic insulation shall be tested as board stock for the flame spread index and smoke-developed index.

**R316.4 Thermal barrier**

Unless otherwise allowed in Section R316.5, foam plastic shall be separated from the interior of a building by an approved thermal barrier of not less than 1/2-inch (12.7 mm) gypsum wallboard, 23/32-inch (18.2 mm) wood structural panel or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275.

**R316.5 Specific requirements**

The following requirements shall apply to these uses of foam plastic unless specifically approved in accordance with Section R316.6 or by other sections of the code or the requirements of Sections R316.2 through R316.4 have been met.

**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, FM 4880, 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 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.



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has met the testing criteria of ACC 377 Appendix X without any additional coating required. Please see the enclosed test report from QAI Laboratories.

Please do not hesitate to contact me with any further questions.

Sincerely,

A handwritten signature in blue ink that reads "Justin Breiner". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Justin R. Breiner  
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