



October 22, 2009

Mr. Matt Ford  
Senior Vice President of Sales  
Universe® Corporation  
3333 Foerster Road  
St. Louis, MO 63044

Re: Analysis of Universe Corporation's 7000 Trespa Attachment System  
HAI Project No. 1JJB00030.000

Dear Mr. Ford:

This analysis addresses the fire performance of Universe Corporation's 7000 attachment system for use with Meteon panels manufactured by Trespa North America, LTD (Trespa).

Trespa manufactures Meteon panels for use as exterior wall coverings. These are attached to the exterior of building using either a TS-110-285 fastening system which is composed of aluminum extrusions attached to the building and to which the Meteon panels are then applied via exposed screws or a TS-210-285 fastening system which is composed of aluminum extrusions attached to the building and to which the Meteon panels are then applied via hidden clips.

Specific Trespa Meteon panels, when appropriately attached using either the TS-110-285 or the TS-210-285 fastening systems will meet the requirements of NFPA 285 "Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components."

Universe Corporation (UC) wishes to install the Meteon panels using their Universe 7000 attachment system. This system is similar to the Trespa 110-285 system in that exposed fasteners are used however, the hat and Z-channels are installed in the horizontal orientation similar to the TS-210-285 fastening system. Thus, the UC 7000 system is a "hybrid" of the two Trespa fastening systems.

The details of the UC 7000 attachment system are provided in UC's Universe 7000 "Exposed Fastener" – Trespa Meteon brochure The UC extrusions are manufactured using the same aluminum alloy as Trespa's.

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It is my judgment that the Trespa Meteon panels attached using the UC 7000 fastening system will meet the NFPA 285 test criteria and thus, will provide equivalent NFPA 285 fire performance as Trespa Meteon panels using Trespa's TS-110-285 and TS-210-285 fastening system. This judgment is based on my review of both manufacturers' fastening systems, the NFPA 285 testing conducted by Trespa to date, and my experience with the NFPA 285 test.

It should be noted that the use of the UC 7000 attachment is limited to a maximum 1 inch cavity depth (measured from the back face of the Meteon panel to the water-resistive barrier), use of a Trespa recommended water-resistive barrier and to the following types of Meteon Panels:

- Uni-Color in 8mm, 10 mm or 13 mm thicknesses
- Metallic in 8mm, 10 mm or 13 mm thicknesses
- NW/NA in 10 mm or 13 mm thicknesses

I hope that this analysis is of assistance and if you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Beitel', with a horizontal line underneath.

Jesse J. Beitel  
Senior Scientist/Principal