



**Underwriters
Laboratories Inc.®**

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July 24 2003

Ms. Amal Tamim
Manager, Approvals & Standards
Construction Products Div.
W. R. Grace & Co - Conn
62 Whittemore Ave
Cambridge MA 02140

Our Reference: R4339, 03NK23769

Subject: Fire protection thicknesses for hollow structural steel columns used
in a vertical or inclined position

Your Reference: X771/Y710 and X795

Dear Ms. Tamim:

This is in response to your June 28, 2003 request to provide clarification regarding the subject referenced above.

It is the judgment of Underwriters Laboratories Inc. that hollow structural steel pipe and tube columns used in a vertical or inclined position similar to Design No. X771 shall be protected with the following spray applied fire protection material:

- W R Grace & Co MK-6/HY, MK-6s, Z-106 and Z-106/G

Hollow structural steel pipe and tube columns used in a vertical or inclined position similar to Design No. Y710 shall be protected with the following spray applied fire protection material:

W R Grace & Co MK-6/HY, MK-6s, Z-106, Z-106/G and Z-106/HY



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Hollow structural steel pipe and tube columns used in a vertical or inclined position similar to Design No. X795 shall be protected with the following spray applied fire protection material:

- W R Grace & Co Type Z-146 for exterior use

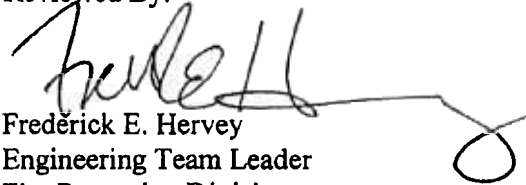
We trust the above answers your inquiry. However, if you should have additional questions, please feel free to contact the writer.

Very truly yours,



John Mammoser
Associate Project Engineer
Fire Protection Division

Reviewed By:



Frederick E. Hervey
Engineering Team Leader
Fire Protection Division