

**UL 1709 Standard for
RAPID RISE FIRE TESTS
OF PROTECTION MATERIALS
FOR STRUCTURAL STEEL
(Modified*)**

H60/H120 Cover

Project No. 14930-97002

(Modified in that the test specimen consisted of a steel thermal mass representative
of a large valve assembly.)

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Prepared for:

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Abstract

A steel box 18" wide, 18" high and 18" deep, constructed of 1/4" mild steel, with two 6" diameter steel pipes protruding 18" from two opposing sides, instrumented with thermocouples and clad with the Protective Concepts, Inc. H60/H120 Cover, was assembled and tested as described herein, to the procedures outlined in UL 1709 Standard for RAPID RISE FIRE TESTS OF PROTECTION MATERIALS FOR STRUCTURAL STEEL. (with modifications as described in this document)*. The results of this evaluation are as follows:

Maximum Allowable Temperature on Simulated Valve System (°F)	Time During Which Maximum Temperature was not Exceeded (min)
375	73
750	114

* The test specimen consisted of a mock-up of a valve system, and was not the specified structural steel described in the UL 1709 standard.

The description of the test specimen and the results presented herein are true and correct to the best of our knowledge and within the bounds of normal engineering methods and techniques.



Deggary N. Priest, President

5/3/94
Date

Reviewed and approved:



William E. Fitch, P.E. No. 55296

5/3/94
Date

