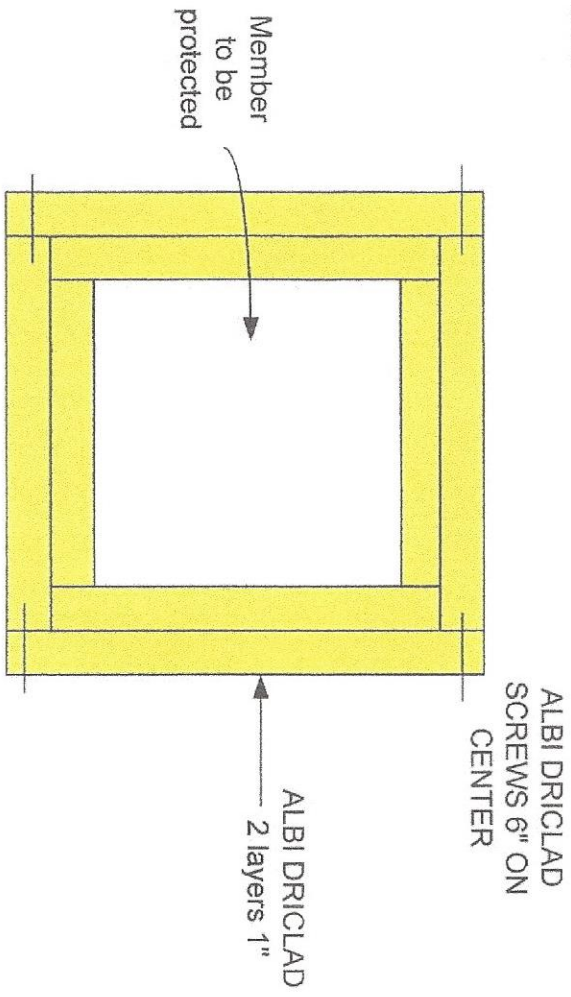




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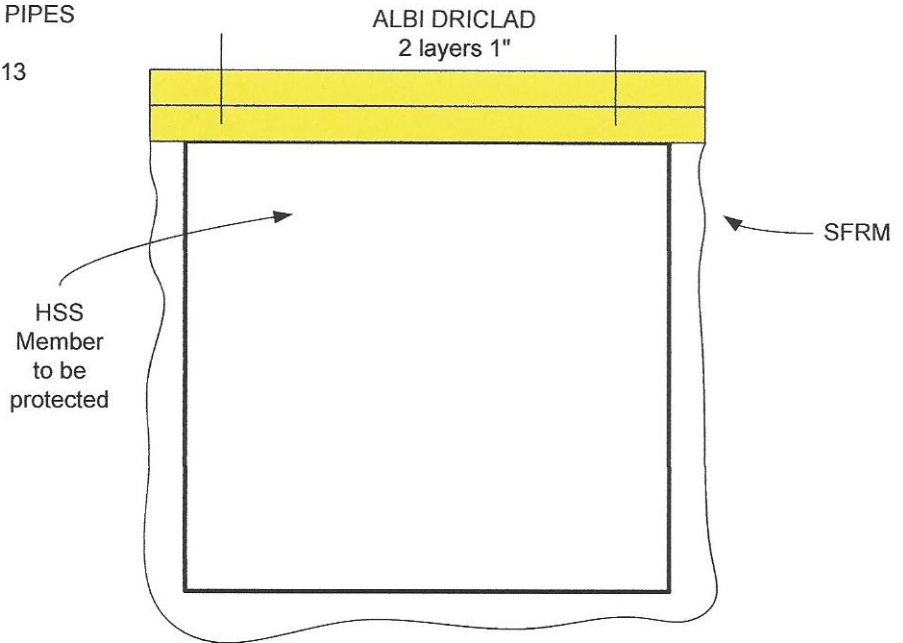
UL File No. R4443
USE OF ALBI DRICLAD ON
STRUCTURAL STEEL PIPES
AND TUBES





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UL File No. R4443
USE OF ALBI DRICLAD ON
STRUCTURAL STEEL PIPES
AND TUBES
BASED ON UL X313



Wall thickness of HSS must be 5/16" minimum



333 Pfingsten Road
Northbrook, Illinois 60062-2096
(847) 272-8800
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MCI Mail No. 254-3343
Telex No. 6502543343

March 25, 1998



Albi - Division of StanChem Inc.
Mr. W. Casey West
401 Berlin St.
East Berlin, CT 06023

Our Reference: File R4443, Project 98NK12444

Subject: Use of Albi Dri-Clad on Structural Steel Pipes and Tubes

Dear Mr. West:

This is in reference to our telephone conversation on March 16, 1998 with Mr. Bill Webb regarding the use of Albi Dri-Clad material on structural steel pipes and tubes.

It was requested that Underwriters Laboratories Inc. undertake an engineering study to determine if Albi Dri-Clad, presently Classified for use on a W10X49 steel column in Design No. X313, could be used on steel pipes and tubes.

We have completed our study and have determined that the Albi Dri-Clad can be used to protect steel pipes and tubes provided the following conditions are met:

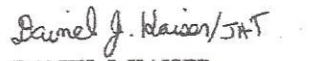
1. The A/P value for the pipes and tubes shall be at least 0.25.
2. The pipes and tubes are protected with the thickness of Albi Dri-Clad in Design No. X313 and applied in two layers with horizontal joints staggered at least 24 in.
3. The fasteners shall be spaced 6 in. o.c. in both directions. Fasteners at the corners shall be of sufficient length to penetrate both layers as well as the perpendicular piece protecting the adjacent side.

We trust the above answers your inquiry. If you have any additional questions please feel free to contact me.

Very Truly Yours,

Reviewed By:


SHAWN Q. MARSHALL
Engineer
Engineering Services, Dept 411


DANIEL J. KAISER
Engineering Group Leader
Engineering Services, Dept 411

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dedicated to public safety and
committed to quality service