



Test Report

Pull-Off Strength

ASTM Test Method D 4541



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SAFE Encasement Systems
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Att: **Mr. John Thoburn**

Re: **DL-13487A-R**
Via FAX (888) 277-8835

OBJECTIVE

To determine the adhesion of four coating systems applied to galvanized steel.

PRODUCTS TESTED

The coating materials and electro galvanized steel substrates were submitted by SAFE Encasement Systems. The coatings were identified as follows:

SAFE Encasement Systems

Primer

SE-110-CI Penetrating Stabilizer, Lot: 129010

Topcoats

SE-120 (Topcoat) Protective Skin, Lot: SE-9108010

SE-120MR Protective Skin, Lot: SE-9108010

SE-161M Clear Surface Coating, Lot: SE-8205099

SE-170MR High Gloss Surface Coating, Lot: SE-8000118

Chlor*Rid International, Inc.

Chlor*Rid Liquid Soluble Salt Remover, Lot: None

PROCEDURES

The electro galvanized steel substrates were scrubbed with a 4% solution of Chlor*Rid Liquid Soluble Salt Remover and allowed to dry at standard conditions. The cleaned substrates were then primed with SE-110-CI Penetrating Stabilizer at 10-mils wet film thickness and allowed to dry overnight. The primed galvanized steel substrates were then topcoated at 10-mils wet film thickness. The coating system was then allowed to dry fourteen days before testing.



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PROCEDURES (cont)

The adhesion of the coating systems to the galvanized steel substrate was determined in accordance with procedures outlined in ASTM Test Method D 4541, "Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers", "Type II Fixed-Alignment Adhesion Testers".

TEST RESULTS

The pull-off strength test of the coating systems adhering to the steel substrates is as follows:

<u>Coating System</u>	<u>Pull-Off Strength</u> psi
SE-110-CI / SE-120	320
SE-110-CI / SE-120MR	330
SE-110-CI / SE-161M	305
SE-110-CI / SE-170MR	400

Note: All were adhesive failures to the substrate.

DL Labs, Inc.

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cc: M. Lazaro, Jr.