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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Lewis J. De...

Date 6-28-85 Reg. No. 016929

REPORT OF: TEST OF WELDED STEEL WIRE FABRIC

PROJECT: MATERIAL EVALUATION

DATE: June 27, 1985

REPORTED TO: ECS
Attn: Dale Johnson
13330 Newlander
Lindstrom, MN 55045

FURNISHED BY:

COPIES TO:

LABORATORY No. 4113 86-181

GENERAL:

On June 12, 1985, we received a section of welded steel wire fabric removed from a 9'-10 1/2" wide by 21'-4" high concrete/metal stud wall panel. The composite wall panel was load tested, and the results were reported on our Laboratory Number 4-5792 dated March 5, 1985 (revision date). The wire fabric was identified as 6 x 6 - 6 x 6 gauge galvanized mesh. It consisted of W3 (6 gauge) wire welded to W3 (6 gauge) circumferential wire.

A tensile test was conducted on two samples of the W3 circumferential wire according to AASHTO Specification M32-81. A shear test was conducted on four sample welds according to AASHTO Specification M55-81.

TEST RESULTS:

Tensile Test Results -

Sample Number	Nominal Diameter of Circumferential Wire, in.	Nominal Area of Circumferential Wire, in. ²	Yield Strength (0.5% Ext), psi	Tensile Strength, psi	Reduction in Area, %
1	0.195	0.030	83,700	85,300	65.2
2	0.195	0.030	81,300	83,500	68.2

Shear Test Results -

Sample Number	Nominal Diameter of Circumferential Wire, in.	Nominal Area of Circumferential Wire, in. ²	Shear Load, lb	Shear Strength, psi	Location of Failure
3	0.195	0.030	1352	45,100	Base Metal
4	0.195	0.030	1345	44,800	Base Metal
5	0.195	0.030	1604	53,500	Base Metal
6	0.195	0.030	1435	47,800	Base Metal

REMARKS:

According to the above test results, this wire fabric conforms to AASHTO Specifications M32-81 and M55-81.

test material will be retained for thirty days.

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Twin City Testing and Engineering Laboratory, Inc.

By *[Signature]*