

BF4-008

June 9, 2014

To Whom It May Concern

Subject: Diamond-Furr Lath System Brand X Metals

Dear Sir or Madam:

This is to give my evaluation of the recent testing performed on the subject product. Specifically I have reviewed the testing done by RADCO (and viewed some of the testing in person) summarized in their June 6, 2014 test report RAD-5490 (Project no. C2868A). It is my opinion that the testing performed is an accurate depiction of the Diamond-Furr system when installed over 3 inch thick foam insulation and supported by either steel or wood framing.

The attached calculations show that the Diamond-Furr system is capable of withstanding the anticipated gravity loading by a factor of safety exceeding six.

It is my conclusion that the Diamond-Furr system is acceptable to be installed in the manner described in the test report and in accordance with the manufacturer's installation instructions.

Sincerely,

Detail 4 Engineering

W.C. "Bill" Farish, P.E



Jun 09, 2014



Gravity Loads for Diamond-Furr Lath System Brand X Metals

Worst Case - 3/4 in thick stucco = 12 psf dead load

Stud spacing = 16 in. oc Screw spacing = 16 in. oc

Allowable Load per Screw:

 $\frac{12 \text{ lbs}}{\text{sq.ft.}} \quad x \quad \frac{16 \text{ in.}}{\text{screw}} \quad x \quad \frac{16 \text{ in.}}{\text{studs}} \quad x \quad \frac{\text{sq.ft.}}{144 \text{ sq.in.}} = \frac{21.3 \text{ lbs}}{\text{screw}}$

Allowable Load on Test Assembly:

4 screws	х	21.3 lbs	_	85.3 lbs
assembly		screw	-	assembly

Test Results:

RADCO Report RAD-5490, Project C2868A, June 6, 2014

Metal Stud Average = 573 lbs. Wood Stud Average = 574 lbs.

Worst Case -<u>573 lbs.</u> x <u>assembly</u> = **6.7 factor of safety** test x <u>85.3 lbs</u> =



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