



SGS U.S. Testing Company Inc.

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**CLIENT: DOC'S MARKETING CORP**5158 Goldman Ave #A  
Moorpark, CA 93021  
Attn: Forrest Dockery**Test Report No: 168766-01****Date: August 5, 2002****SAMPLE ID:**

The following test material was randomly sampled at Doc's Marketing Corporation, 5158 Goldman Avenue, Unit A, Moorpark, CA, by an SGS U.S. Testing Company representative on May 29, 2002:

75 each, 3-inch long x 1/4-inch diameter, nominal, steel lag screws, Part Number W300ZP. Each fastener consisted of a 1 1/2-inch long threaded portion (10 TPI) with a 0.182-inch diameter shank and a 0.242-inch diameter thread. The eyelet portion of the fastener consisted of a flat area having a 0.375-inch tapered width, a 0.585-inch length, a 0.080-inch thickness and a 0.208-inch diameter hole. The screw were identified with a "D" stamped on the screw

**DATE OF RECEIPT:** Entered into SGS U.S. Testing Company sample tracking system on May 29, 2002 as STN 35180.

**TESTING PERIOD:** July 29 through August 2, 2002.

**AUTHORIZATION:** Purchase Order Number 6-6 Forrest.

**TEST(S) REQUESTED:** Fastener pull out tests at 0 (tensile) and 45-degree angels per Client specified test procedures referenced under SGS U.S. Testing Company Report Number 720210-2 dated December 24, 1996.

**TEST RESULTS:** See pages 2 and 3

**Testing Conducted By**

Larry Burmer  
Senior Project Engineer

**Signed for and on behalf of  
SGS U.S. Testing Company Inc.**

Tom Clark  
Manager, Mechanical Evaluation  
Services

Page 1 of 5

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SGS U.S. Testing Company Inc.

Report No.: 168766-01

Date: August 5, 2002

Page: 2 of 5

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### FASTENER PULL OUT TESTS

**Test Procedure:** Fifteen fasteners were drilled, without a pilot holes, into the 2-inch edge of a nominal 2 x 6 piece of Douglas fir, No.2 grade, having a specific gravity of 0.46. After conditioning the 2 x 6 for a minimum of 40 hours at 73°F and 50% relative humidity, the 2 x 6 was secured to the fixed table of an Instron UTM so that the fasteners were in a vertical (0°) position. Each fastener was then individually pulled in tension at a constant crosshead separation rate of 0.5-inch per minute until failure.

The above test procedure was repeated with the load applied to the fastener at a 45° angle.

#### Results:

<u>Fastener Position</u>	<u>Fastener Number</u>	<u>Maximum Load (lbs)</u>	<u>Fastener Extension/Deflection at Maximum Load (in)</u>
Vertical (0°)	1	1,140	0.10
	2	1,070	0.15
	3	1,050	0.10
	4	1,120	0.10
	5	900	0.10
	6	1,020	0.10
	7	960	0.10
	8	1,100	0.10
	9	1,000	0.10
	10	940	0.10
	11	1,100	0.10
	12	900	0.10
	13	1,080	0.10
	14	1,040	0.10
	15	980	0.10
Average:		1,027	0.10

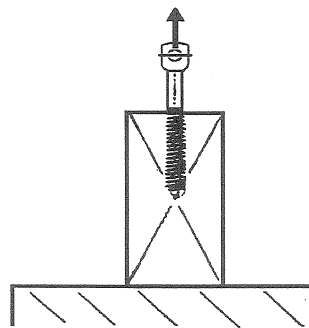


Figure No. 1