



# Inchcape Testing Services

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REPORT OF: Product Evaluation Testing

AT: Coquitlam Laboratory

PROJECT: 488-8037

REPORTED TO: MBTechnology  
188 South Teilman Avenue  
Fresno, CA 9306-1334  
U.S.A.

DATE: November 8/95

REPORT NO: 2/95

ORDER NO:  
Page: 1 of 2

Revised: July 22, 1996  
Attention: Mr. Nader Behbehani

## INTRODUCTION

At the request of MBTechnology, Inchcape Testing Services/Warnock Hersey has conducted product evaluation testing on a modified asphalt underlayment in accordance with ASTM D226 Standard specification for *Asphalt-Saturated Organic Felt used in Roofing and Waterproofing*.

Samples used for testing were submitted by MBTechnology, and received May 20/95.

## TESTING LABORATORY

Inchcape Testing Services/Warnock Hersey Professional Services Ltd.

211 Schoolhouse Street  
Coquitlam, British Columbia  
Canada V3K 4X9

### Product Description:

Name: *Layfast SBS TU35 Underlayment*  
- can be substituted for #30 felt as tile or shake underlayment

Reinforcement: non-woven fiberglass

Thickness: 0.04 in.

## SUMMARY

The product described has met all physical requirements of Table I of D226 and all pertinent requirements of Table II of D226 as described under "Tests and Test Results."

Moisture content is not required to be determined after manufacture, but is reported at the request of MBTechnology.

Ash content is not applicable for this product since the reinforcement material is fiberglass instead of organic felt, but the ash content is reported at the request of MBTechnology.

Water vapor transmission is not a requirement for D226, but is reported at the request of MBTechnology.

Look For These Inchcape Marks As Evidence of Compliance.



**TESTS AND TEST RESULTS**


**Table I Requirements**

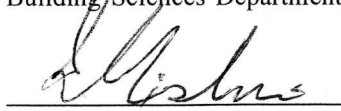
TEST	REQUIREMENTS	RESULTS	STATUS
Average Breaking Strength (min.)	With fiber grain 40 lbs./in.	65 lbs./in.	Pass
	Across fiber grain 20 lbs./in.	46 lbs./in.	Pass
Pliability @ 77°F	No cracks when bent 90° over 0.75 in. mandrel (10 strips)	No cracks for all 10 strips	Pass
Loss on Heating	Max Loss: 4%	Loss: 0.3%	Pass

**Table II Requirements**

TEST	REQUIREMENTS	RESULTS	STATUS
Width of Roll	40 in. ± 0.28 in.	40 in. ± 0.1 in.	Pass
Area of Roll	Min: 216 ft. <sup>2</sup>	217 ft. <sup>2</sup>	Pass
Moisture Content	Max: 4.1%	0.4%	N/A f/glass mat
Mass of Saturated Felt	Min: 26 lbs./100 ft. <sup>2</sup>	34.7 lbs./100 ft. <sup>2</sup>	Pass
Mass of Saturant	Min: 15 lbs./100 ft. <sup>2</sup>	25.8 lbs./100 ft. <sup>2</sup>	Pass
Ash Content	Max: 10%	68%	N/A f/glass mat
Water Vapour Transmission	No requirements	1.65 x 10 <sup>-4</sup> oz/ft <sup>2</sup> /hr 0.05 g/m <sup>2</sup> /hr 0.5 ng/Pa·s·m <sup>2</sup>	N/A

**INCHCAPE TESTING SERVICES NA LTD.**

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