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Underwriters Laboratories Inc.

MR A BAUM
BALDWIN (MACSTEEL) STEEL COMPANY
TULSA DIVISION
3123 E APACHE
TULSA OK 74110

Date: 01/25/2002
Subscriber: 820004001
File No: R18998
Project No: 02NB01042
PD No: 02001698
Type: R
PO Number:

Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed.

<u>Issue</u>				
<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
3/5/99	1		Revised Section General Page(s) 1	1/22/02
3/5/99	1	1	Revised Description Page(s) 1	1/22/02
3/5/99	1	1	New Illustration's) ILL's 4, 5	1/22/02

Inspections at your plant will be conducted under the supervision of Lyndel Williams, Field Supervisor, 10316 Greenbriar Place, Suite 8, Oklahoma City, OK 73159-7649, PHONE: (405) 378-7006, FAX: (405) 378-7006.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-up Service Procedures revisions DO NOT include Cover Pages, Test Records and Conclusion pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to MARTIN ROWAN (EXT. 42349), referring to the above Project and/or PD Numbers.

cc: NBK File

UL INSPECTION CENTER 540

GENERAL

PRODUCT COVERED:

The products covered by this Procedure is a metal roofing panel. It is intended for use in roofing systems described in the Roofing Materials and Systems Directory.

FACTORY LOCATION AND IDENTIFICATION:

<u>Location</u>	<u>Identification</u>
Tulsa, OK	None
* Dubuque, IA	Klauer

CLASSIFICATION MARKING:

The finished material complying with all the specifications set forth in the Descriptive Sections is eligible to bear the Marking (s) shown in the Classification Marking Data Page (s) in the front of this Procedure Volume.

The information in the Classification Marking Data Page (s) shall be complemented with the following:

- 1 Classification Marking Data Page TGFU.

MATERIAL DESIGNATION: Building Unit

The following statement may also appear on the Classification Marking for TGFU.

"Also Classified as to Impact Resistance (see Roofing Materials and Systems Directory)."

MARKING:

In addition to the Classification Marking of Underwriters Laboratories Inc. The following shall be on each package or roll:

- 1 Classified Company's name or the file designation R18998.
- 2 Product designation.

DESCRIPTION:

PRODUCT COVERED:

This section of the Procedure cover coated steel roof panels which are identified by the manufacturer as "5-V Crimp", "Tuff-Rib", "Suburban", "R-Panel", "Strong Panel" (North Rib), "Frontier" and "Traditional".

SPECIFICATIONS OF FINISHED PRODUCT:

MATERIALS

All materials used to produce these panels must be a minimum of 29 MSG (0.0128 in. thick) steel. This thickness shall not include the coating or any paint finish.

DIMENSIONS

The cross sectional dimensions of the finished panels shall be in accordance with the cross sections shown in ILLS. 1, 2, 3, 4, and 5.

CONCLUSION

The following conclusions represent the judgement of Underwriters Laboratories Inc. based upon the results of the examination, tests and data Analysis presented in this Report.

The products covered by this Report are judged to be eligible for Classification and Follow-Up Service. The manufacturer is authorized to use the Laboratories' Classification Marking as shown below on such products which comply with the Follow-UP Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Laboratories' Classification Marking are considered as classified by Underwriters Laboratories Inc.

The following impact resistance class designations are applicable for the products submitted:

"R", "TUFF-RIB", "SUBURBAN", "UNIVERSAL",	Class 4
"STRONG PANEL" (NORTH RIB), "FRONTIER", "UNIVERSAL"	Class 4
and "P.B.R."	Class 4

UNDERWRITERS LABORATORIES INC.
CLASSIFIED
ROOFING SYSTEMS
BUILDING UNIT - CLASS C

DEGREE OF RESISTANCE TO EXTERNAL FIRE AND
FLAMMABILITY LIMITS
IN ACCORDANCE WITH UL STANDARD 790
WHEN APPLIED IN ACCORDANCE WITH
INSTRUCTIONS INCLUDED WITH THIS ROOFING
ALSO CLASSIFIED AS TO IMPACT RESISTANCE
CLASS +

+ - Includes the appropriate Class designation

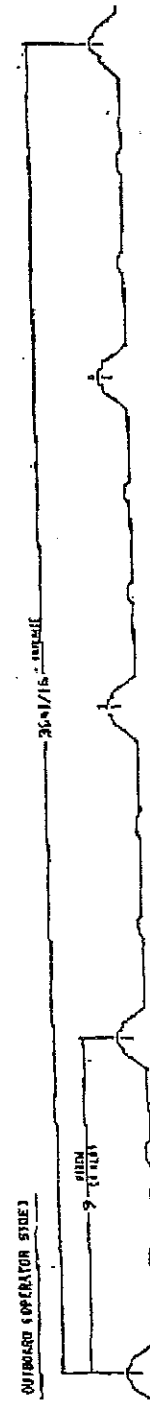
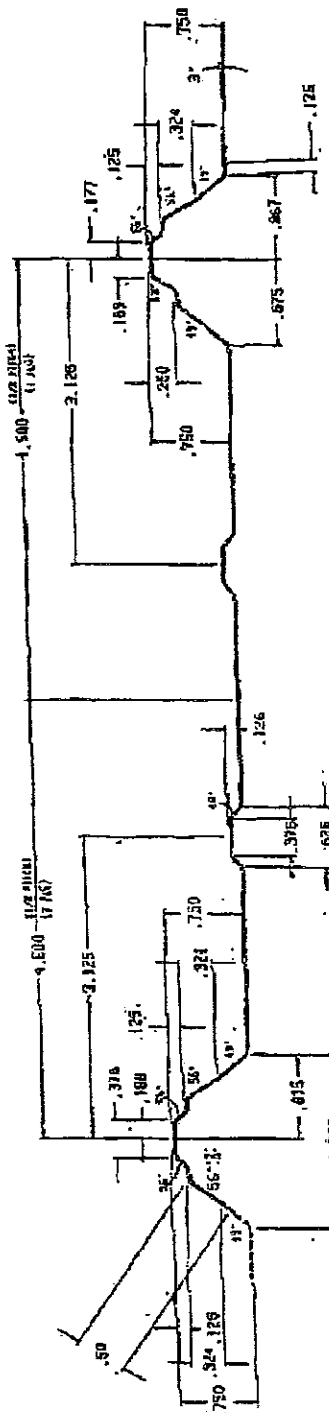
Report by:

Reviewed by:

ROBERT F. KEOGH
Senior Engineer

RANDALL K. LAYMON
Engineering Group Leader

RFK/RKL : plr
NKDLS



This Profile Drawing is Approved
Earl E. Shank

- NOTES:
1. ALL METRIC RADII ARE .125.
 2. MATERIAL .014 TO .021 GALV., PAINTED STEEL; GRADE D & E (50 & 60 PSI MIN. YIELD).
 3. CALCULATED STRIP WIDTH = 40.98.
 4. ALL DIMENSIONS SHOWN ARE BASED ON .021 MAT'L AND ARE NOMINAL AND USED FOR CALCULATION OF STRIP WIDTH ONLY.
 5. TUBLING ALLOWED FOR THE FORMING OF THE FULL LEG PLUS 1/2" LIP ON BOTH THE INNER & OUTER SIDES.

PROJECT	THE FRANKLIN CO., INC.	DATE	8-23-60
CLIENT	FRANKLIN CO., INC.	DRAWN BY	WJL
DATE	8-23-60	CHECKED BY	WJL
SCALE	AS SHOWN	APPROVED BY	WJL
TUFF RIB		"CROSS SECTION"	
SECTION		REV. 1	

"TUFF-RIB", "SUBURBAN", "UNIVERSAL"

N02-03092



TGAM.R18998 Roof-covering Materials, Impact Resistance

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Roof-covering Materials, Impact Resistance

[See General Information for Roof-covering Materials, Impact Resistance](#)

MACSTEEL SERVICE CENTERS USA TULSA DIV
3123 E APACHE
TULSA, OK 74110 USA

R18998

Class 4 formed steel panels designated 5-V Crimp, R, Tuff-Rib.

[Last Updated on 2005-08-04](#)

[Questions?](#)

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