

TEST REPORT

SABS

SHOCK PROOF INVESTMENTS

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No: 2538/2589E/MT11

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NAIL PLATES

1 OBJECT OF THE TEST

- 1.1 To determine the tensile holding capacity of the nail plates as submitted by the client.
- 1.2 Maximum tensile holding capacity of the samples is reported under section 6.

2 SAMPLE

2.1 DESCRIPTION OF SAMPLE

Eight nail plates with straight and zigzag pattern manufactured from "Z 275 galvanized steel" as described by the client with the following nominal dimensions:

Plate length:	203 mm
Plate width:	102 mm
Plate thickness:	1 mm
Nail length:	8,2

2.2 DATE OF RECEIPT

31 June 2011

2.3 DATE OF TEST

09 August 2011

2.4 CONDITION OF SAMPLE

The sample was considered to be in a suitable condition for testing purposes.

3 TEST METHOD

Two nail plates were pressed into two beams of SA pine wood on both sides joining them. The beams were fastened to the steel plates and then anchored to the tensile machine. The tensile force was applied at a rate of 25 mm/min and maximum failure load was recorded. (Refer photo no. 1).

4 EQUIPMENT INFORMATION

Type : Instron 1195 Tensile Machine
Serial no : 2122
Calibration certificate no : SABS 7068

5 NAME OF LABORATORY

Building and Construction Laboratory of SABS Commercial (Pty) Ltd.

6 RESULTS

Sample	Maximum failure load, kN	Type of failure
Nails with straight paten	44,8 45,7	Sheared in the middle, refer photo no. 2
Nails with zigzag paten	43,9 45,8	Plank broken, refer photo no. 3

Photo no. 1

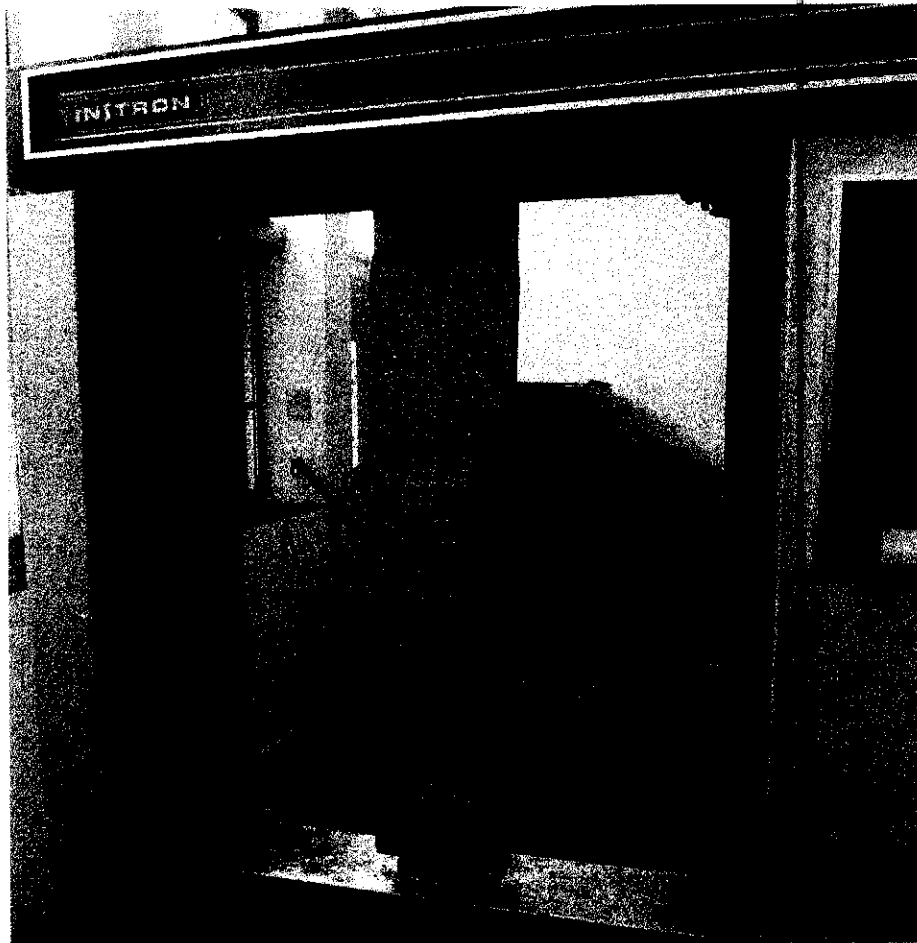


Photo no. 2

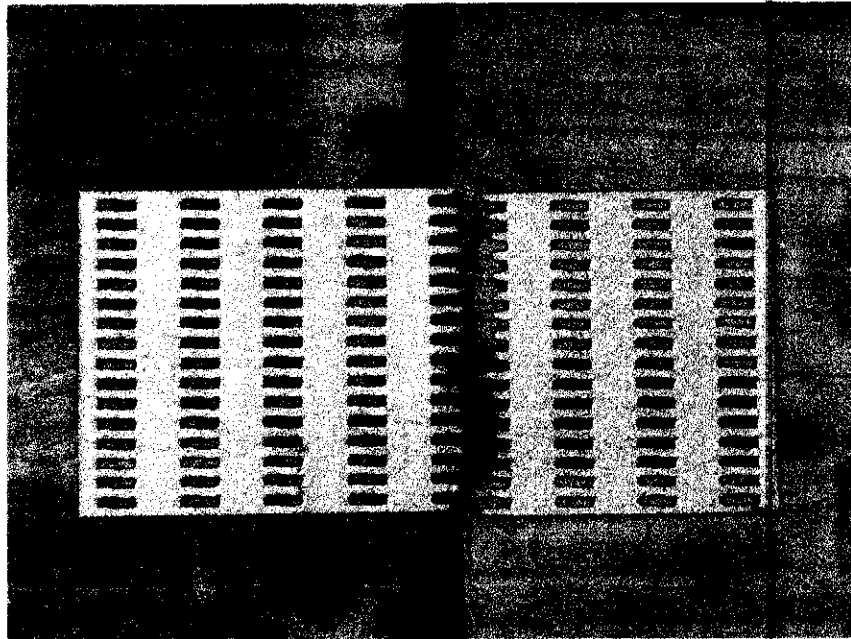
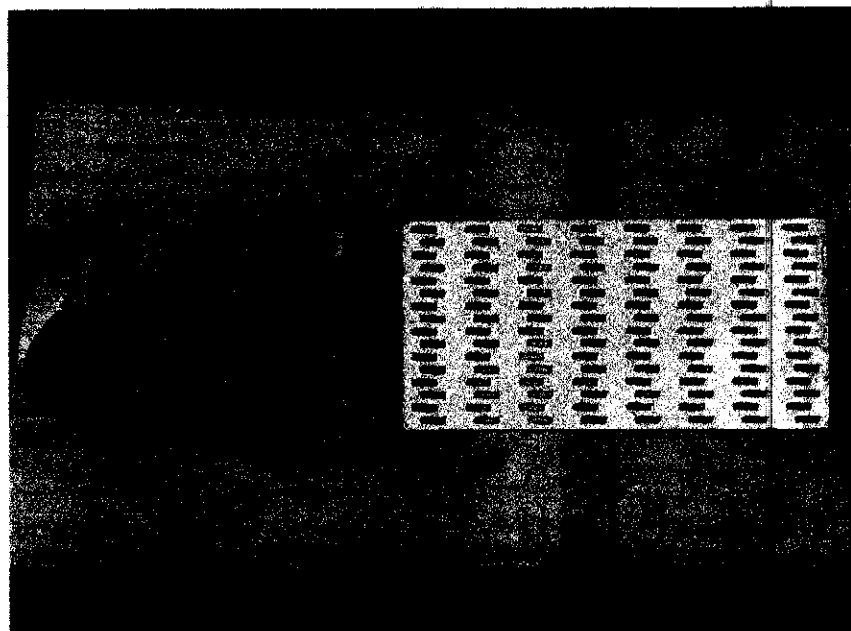


Photo no. 3



E Seeger: **MANAGER**
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J Maswikaneng: **TEST OFFICER**
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