



SIRIM Berhad

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(Company No: 367474-V)

TEST REPORT

REPORT NO : 2000CB0238	PAGE : 1 OF 11
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Our Ref : SQAS/CBMT/15/3-23

Issued by : **Construction and Building Materials Testing Section**

Issued date : **22 MAY 2000**

Product : Steel Roof Truss

Reference Standard/
Method of test : Manufacturer's Specification - Pulling and Compression Test

Applicant : TONG YONG METAL SDN. BHD.
Lot 5781 & 5782 Taman Selamat
14200 Bukit Mertajam
Seberang Perai Tengah
Pulau Pinang
(Attn: Mr. Chua Swee Nyap)

Description of sample : 4 samples of Steel Roof Truss were received for testing.
Sample Marking : S1/4S, S1/2S, T1/4S & T1/2S
Brand/Model : UNI-METALITE STEEL ROOF TRUSS SYSTEM

Date received : 11/5/2000

Job No. : 00TSD01207

Prepared by:

SERI BANUN SUJANGI
Senior Technical Executive



Approved by:

MOHD FAUZI SMAIL
Manager
Construction and Building Materials Testing Section
Testing Services Department
SIRIM Berhad

TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 2 OF 11

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DESCRIPTION OF TEST SAMPLES :

4 samples of Steel Roof Truss were submitted by **Tong Yong Metal Sdn. Bhd.** For compression and pulling test at the connection point.

The detail description are as below :

MATERIAL : Galvanized Iron Steel (High Tensile)

THICKNESS : 0.55 mm

MEMBER X REPRESENT STRUTS OF THE ACTUAL TRUSS :-

SIZE : 40 mm x 50 mm

MEMBER Y REPRESENT TOP CHORD AND BOTTOM CHORD OF THE ACTUAL TRUSS :-

SIZE : 40 mm x 75 mm

FASTENER : Truss HD Tapping Screw (Nickel with harden)

SIZE : M4 x 10



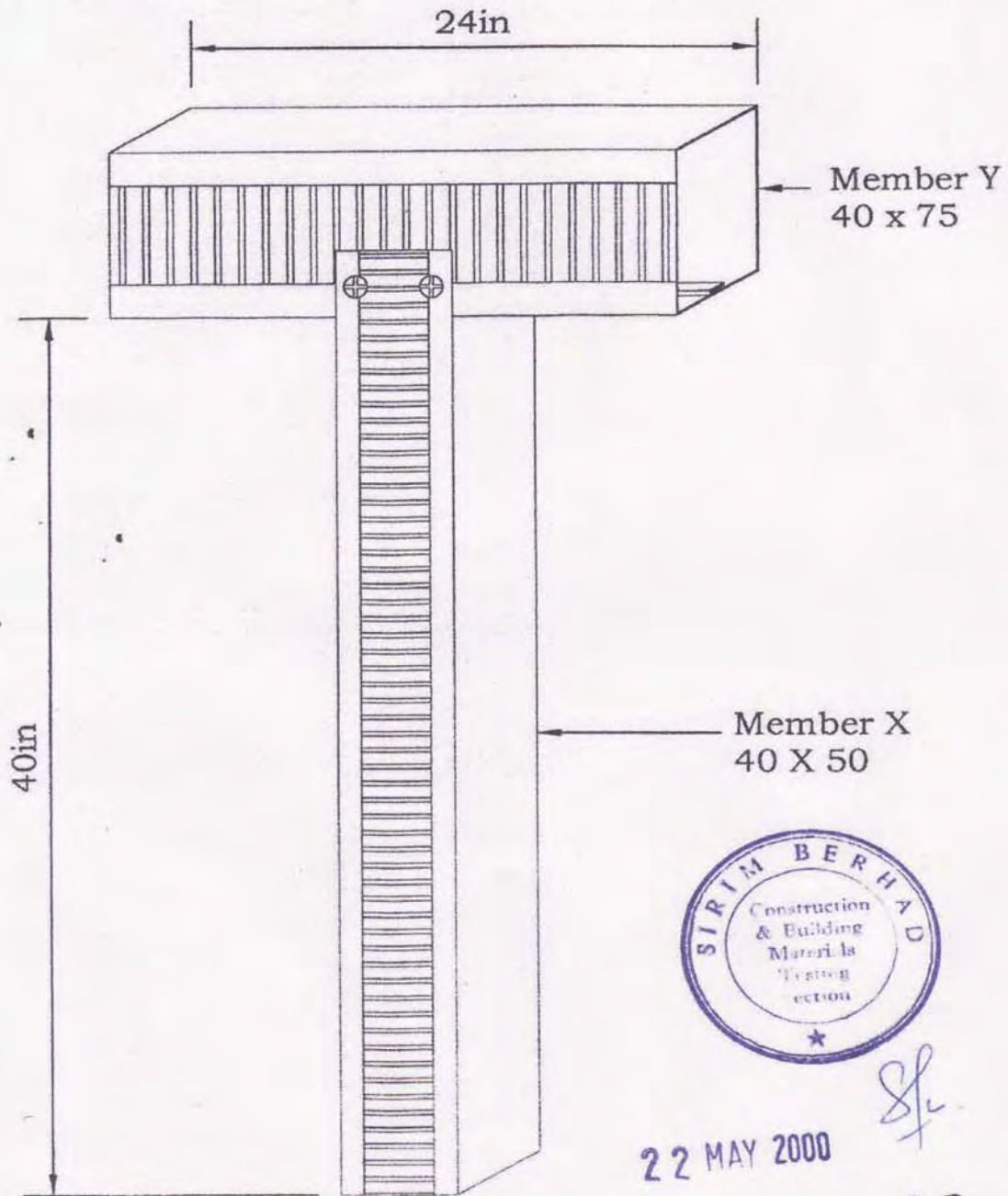
TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 3 OF 11

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Figure 1.0 : Schematic diagram shows samples for pulling test with 2 screws at the connection.



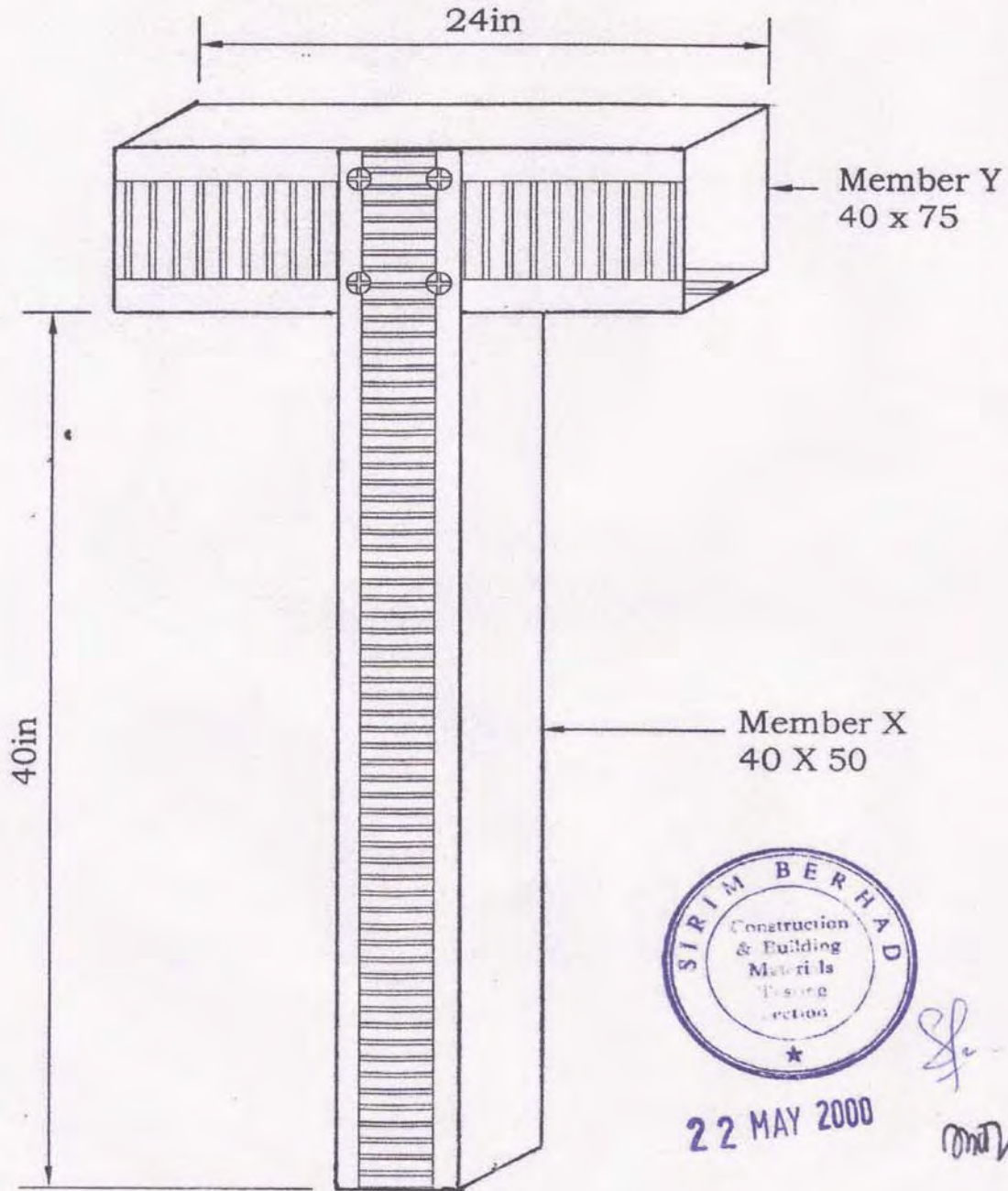
TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 4 OF 11

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Figure 2.0 : Schematic diagram shows samples for pulling test with 4 screws at the connection.



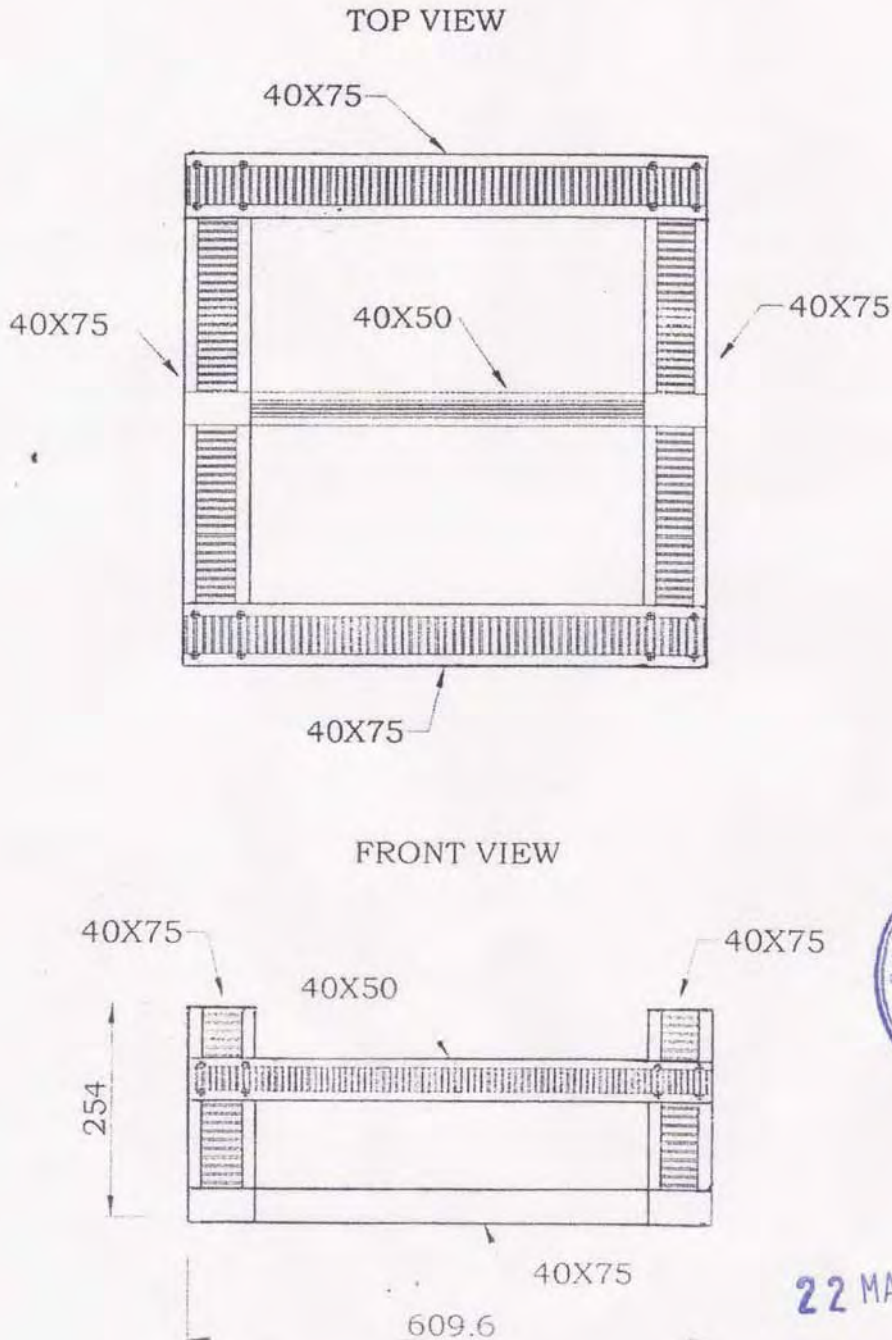
TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 5 OF 11

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Figure 3.0 : Schematic diagram shows samples for compression test with 4 screws at the connection (front view and top view).



22 MAY 2000

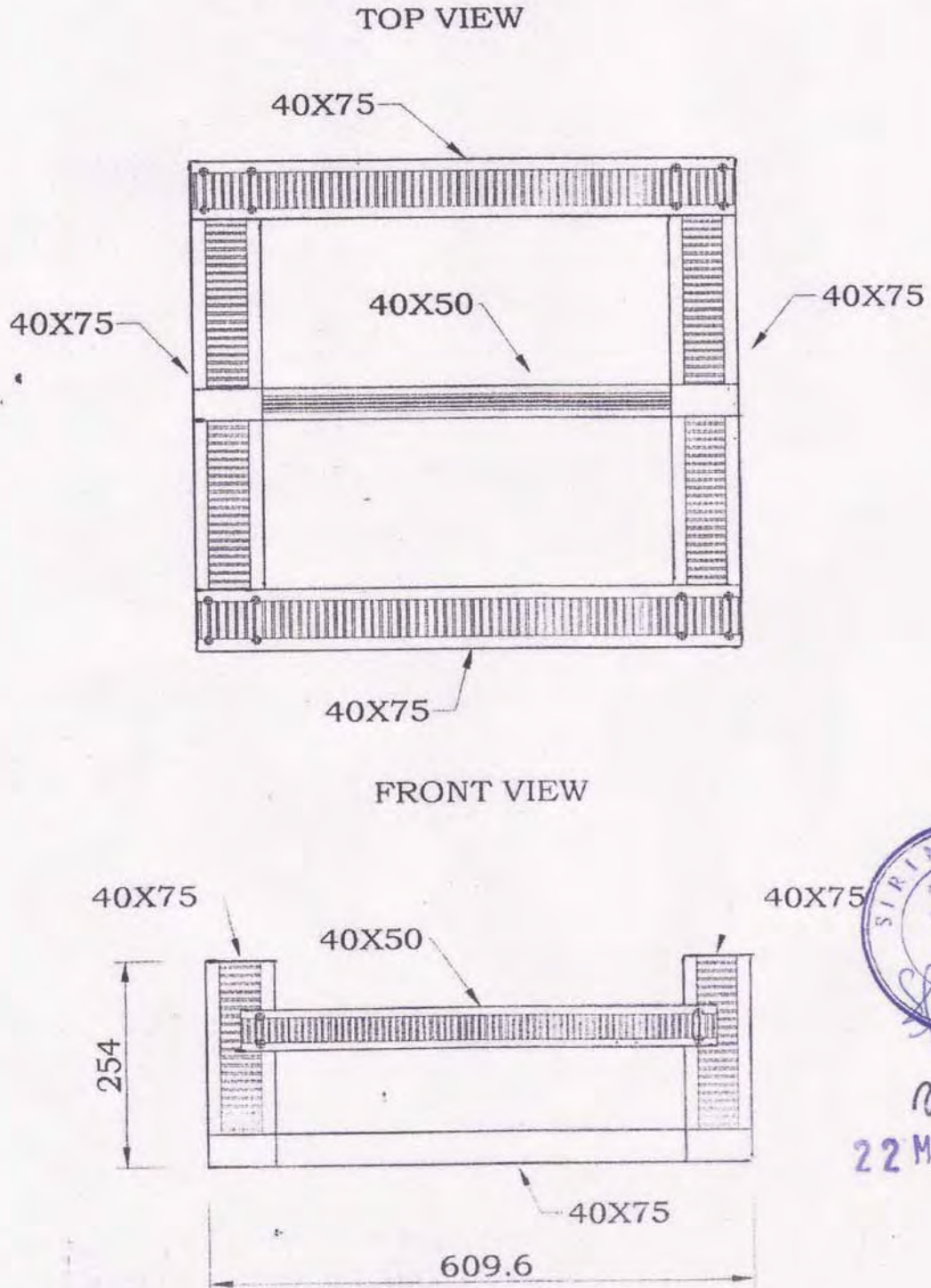
TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 6 OF 11

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Figure 4.0 : Schematic diagram shows samples for compression test with 2 screws at the connection (front view and top view).



22 MAY 2000

TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 7 OF 11

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TEST RESULTS : COMPRESSION TEST

SAMPLE REFERENCE	OBSERVATION / REMARK
S1 / 4S	The sample tear off at the connection part at 1.5 tf load. (see photo 1.0 and 2.0)
S1 / 2S	The sample tear off at the connection part at 1.6 tf load. (see photo 3.0 and 4.0)

TEST RESULTS : PULL TEST

SAMPLE REFERENCE	OBSERVATION / REMARK
T1 / 4S	The sample fractured at the connection part at 1.0 tf load. (see photo 5.0 and 6.0)
T1 / 2S	The sample fractured at the connection part at 1.0 tf load. (see photo 7.0 and 8.0)

22 MAY 2000



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TEST REPORT

REPORT NO. : 2000CB0238

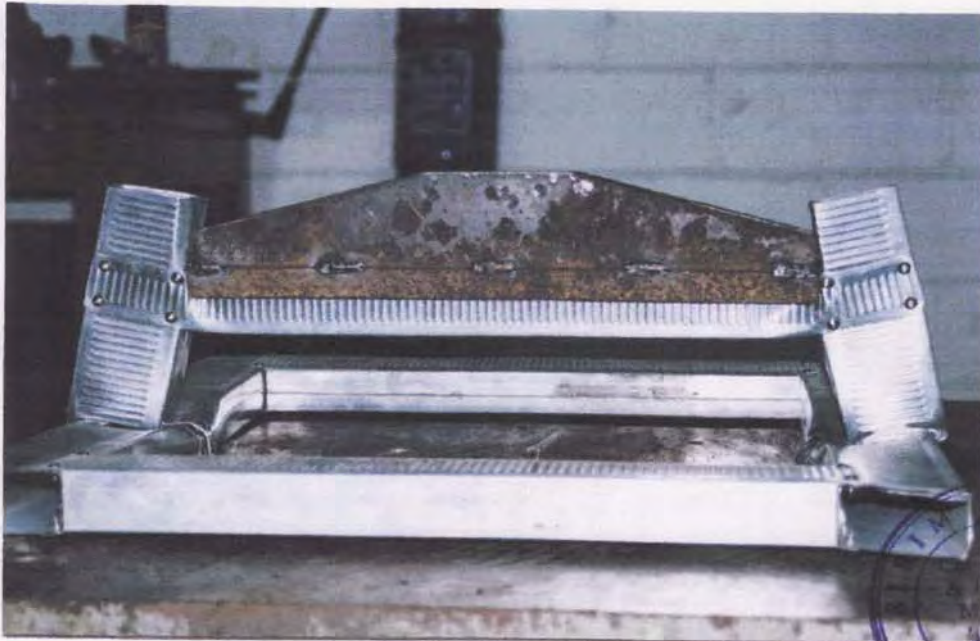
PAGE : 8 OF 11

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Photo 1.0 : Before test – sample S1/4S (compression test with 4 screws)



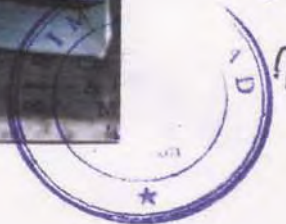
Photo 2.0 : After test – sample S1/4S (compression test with 4 screws)



22 MAY 2000

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TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 9 OF 11

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Photo 3.0 : Before test – sample S1/2S (compression test with 2 screws)

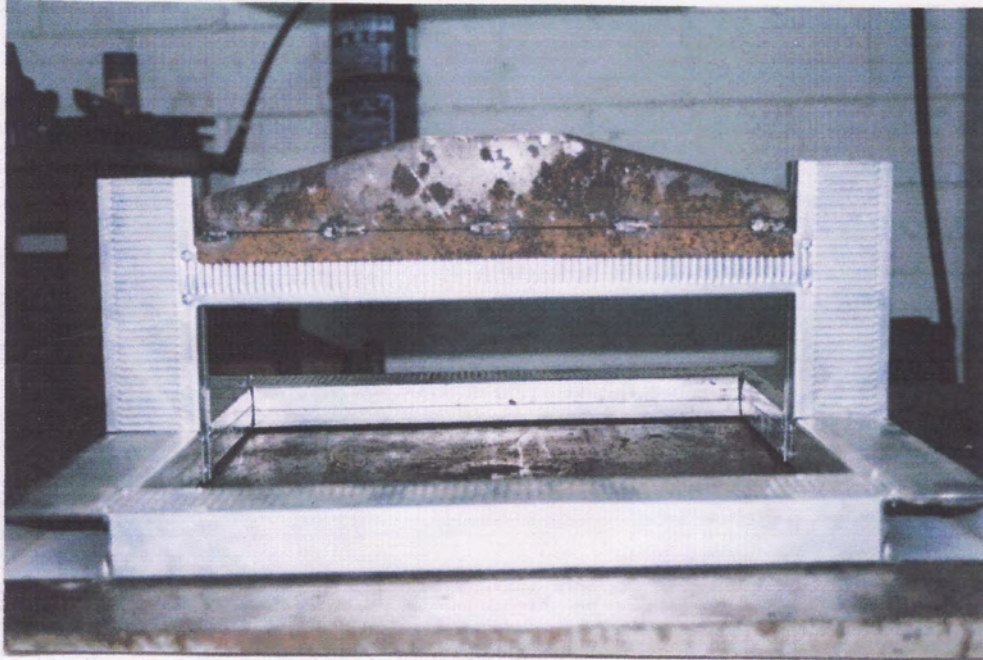
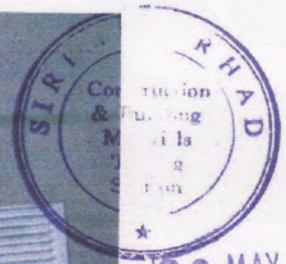
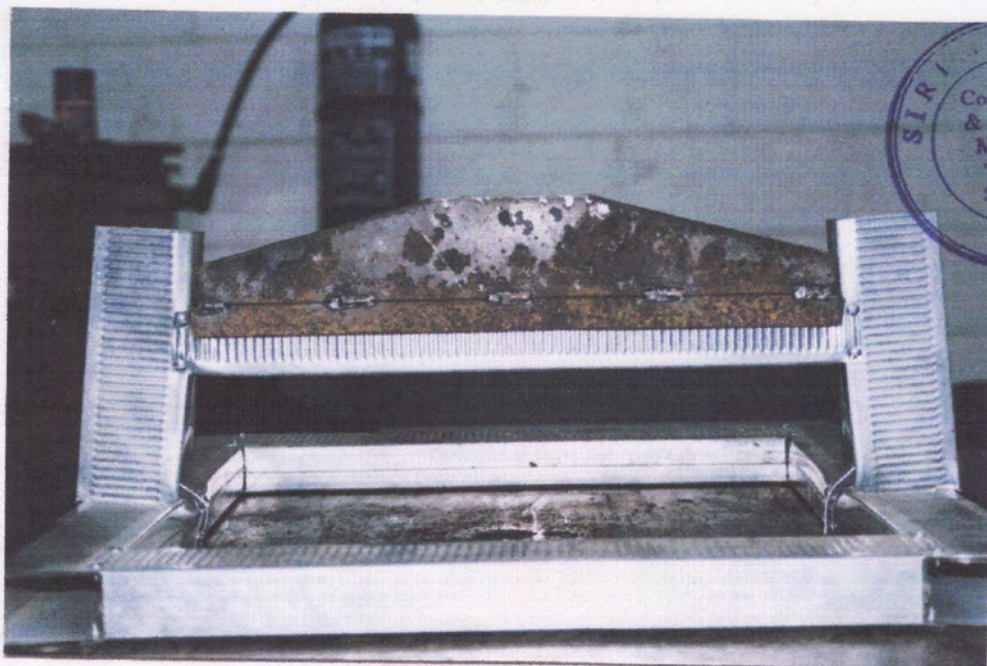


Photo 4.0 : After test – sample S1/2S (compression test with 2 screws)



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TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 10 OF 11

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Photo 5.0 : Before test – sample T1/4S
(pulling test with 4 screws)



22 MAY 2000

Photo 6.0 : After test
– sample T1/4S
(pulling test with
4 screws)



TEST REPORT

REPORT NO. : 2000CB0238

PAGE : 11 OF 11

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Photo 7.0 : Before test – sample T1/2S (pulling test with 2 screws)

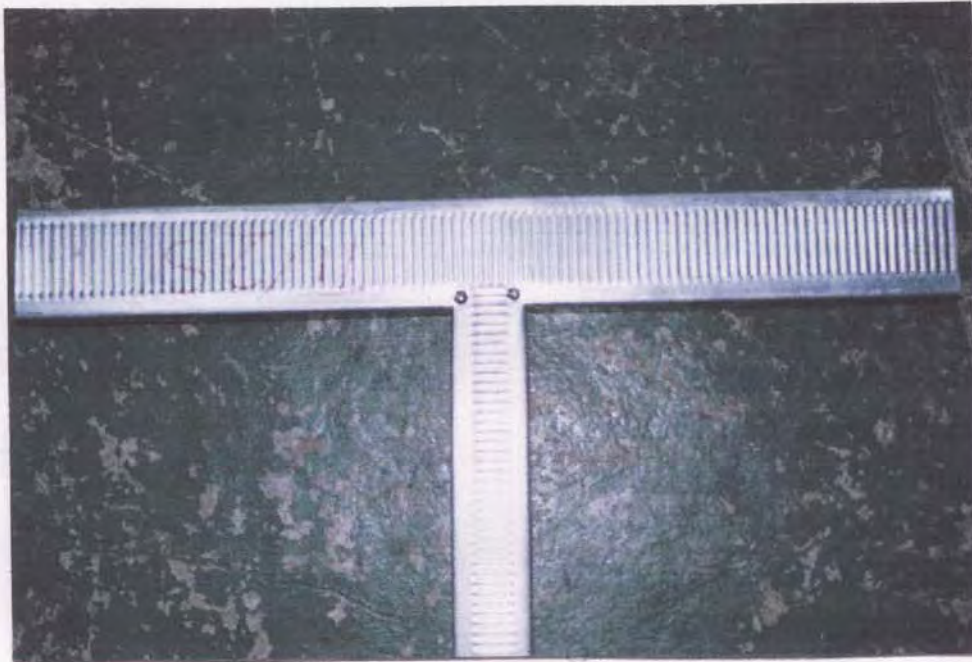


Photo 8.0 : After test – sample T1/2S (pulling test with 2 screws)



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