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TEST REPORT

REPORT NO : 2000CB0148	PAGE : 1 OF 6

Our Ref	:	TSD 452/15/1-16
Issued by	:	**Construction and Building Materials Testing Section**
Issued date	:	27 MAR 2000
Product	:	STEEL ROOF TRUSS STRUCTURE
Reference Standard/ Method of test	:	Manufacturers specification. Static Load Test.
Applicant	:	TONG YONG METAL SDN BHD. Lot 5781 & 5782.Taman Selamat.Alma. 14000. Bukit Mertajam. Seberang Perai Tengah. Pulau Pinang. (Att: Mr. Chua)
Description of sample	:	A system of Steel Roof Truss Structure was tested at factory.
Date received	:	15.03.2000
Job No.	:	00TSD0628

Prepared by:

YM RAJA NOR SIHA
Specialist Technical Executive

SIRIM BERHAD Construction & Building Materials Testing Section

Approved by:

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

TEST REPORT

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Test results.

Submitted by : TONG YONG METAL SDN BHD.
Sample : Steel Roof Truss.
Test location : Manufacturer's site.
Method of testing : Static load test .

Description of test sample:

Nos. of steel roof truss : 4 nos.
Spacing : 4 ft.
Span length : 22.0 ft.
Pitch : 30 degree.

Material :

TRUSS. Galvanized Iron (high tensile)
Thickness : 0.55 mm.
Size of top chord : 40 mm x 75 mm.
Size of bottom chord : 40 mm x 75 mm.
Struts : 40 mm x 50 mm.

BATTEN. Galvanized Iron (high tensile)
Thickness : 0.55 mm.
Size : 40 mm x 50 mm.

Tests	Result
A total load of 1384 kgs was assembled on the steel roof truss assembly and the deflection were recorded at point 1 ,2 , 3 and 4.	Point 1 : 1.64 mm. Point 2 : 3.24 mm. Point 3 : 3.22 mm. Point 4 : 1.35 mm. The steel roof truss system withstood the total load of 1384 kgs without any collapse.

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TEST REPORT

REPORT NO : 2000CB0148	PAGE : 3 OF 6

Test results.

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Method of testing : Static load test .

Description of test sample:

Nos. of steel roof truss : 4 nos.
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Size of bottom chord : 40 mm x 75 mm.
Struts : 40 mm x 50 mm.

BATTEN. Galvanized Iron (high tensile)
Thickness : 0.55 mm.
Size : 40 mm x 50 mm.

Tests	Result
A total load of 2768 kgs was assembled on the steel roof truss assembly and the deflections were recorded at point 1 ,2 , 3 and 4.	Point 1 : 2.95 mm. Point 2 : 5.30 mm. Point 3 : 5.28 mm. Point 4 : 2.455 mm. The steel roof truss system withstood the total load of 2768 kgs without any collapse.
The load was then removed and permanent deflections were recorded.	Permanent deflections. Point 1 : 0.59 mm . Point 2 : 0.98 mm. Point 3 : 0.84 mm. Point 4 : 0.35 mm.

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Test results.

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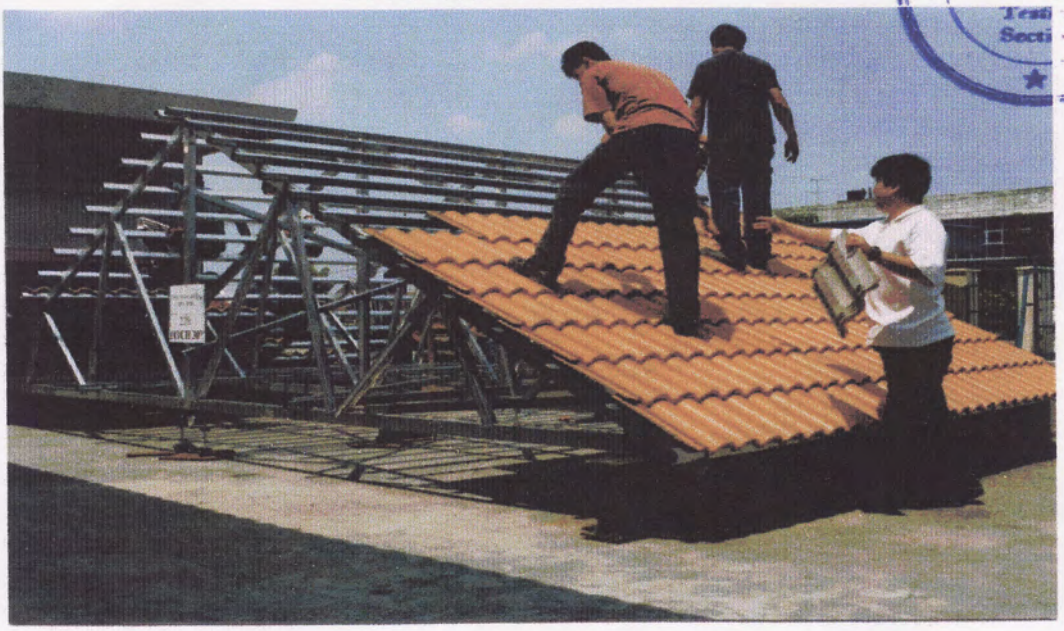
Sample : Steel Roof Truss.
Test location : Manufacturer's site.
Method of testing : Static load test .

Steel roof truss assembly.



A layer of roofing tiles (act as dead load) was assembled on the steel roof truss.

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TEST REPORT

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Test results.

Submitted by : TONG YONG METAL SDN BHD.
Sample : Steel Roof Truss.
Test location : Manufacturer's site.
Method of testing : Static load test .

Deflections were recorded after a layer of roofing tiles were fully assembled on the steel roof truss.

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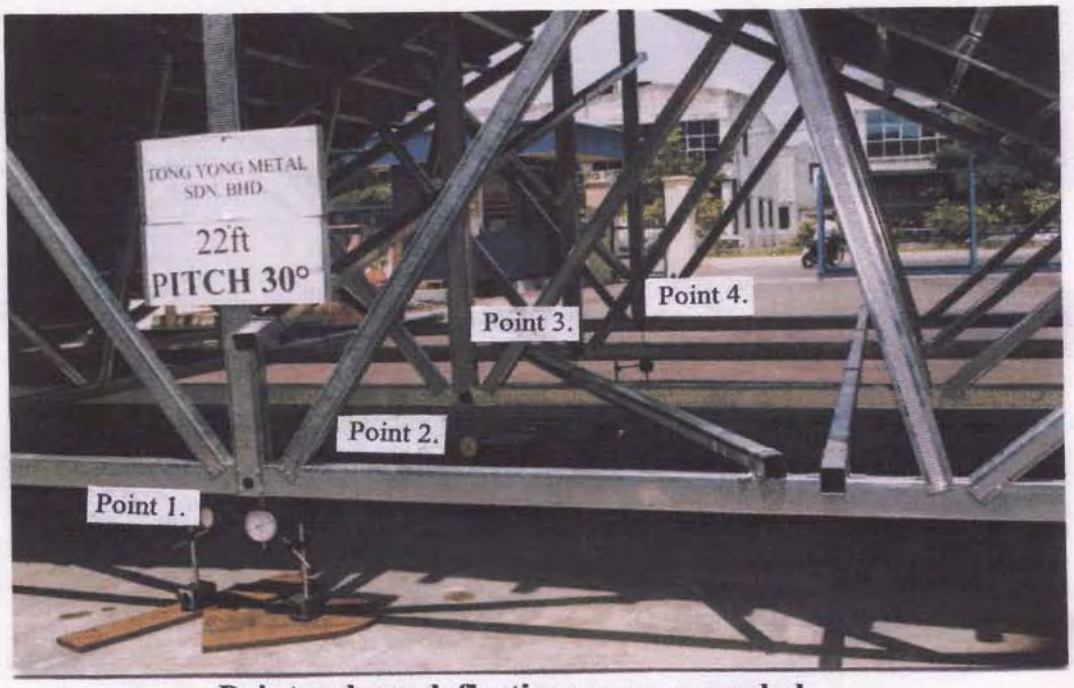
Deflections were recorded after two layers of roofing tiles were fully assembled on the steel roof truss.

TEST REPORT

REPORT NO : 2000CB0148	PAGE : 6 OF 6

Test results.

Submitted by : TONG YONG METAL SDN BHD.
Sample : Steel Roof Truss.
Test location : Manufacturer's site.
Method of testing : Static load test .



Points where deflections were recorded .

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