

## MECHANICAL TESTING REPORT

AlfaTest Report No: 20200543M01 Re-issue

Date of Test: 09 to 11 March 2020

Location of Test: AlfaTest Laboratory, Salisbury Qld

Client Name: Network Steel and Aluminium

Client Address: 3 Enterprise Street, Cleveland QLD 4163

Client Order No: 50877

Client Job No: Not specified

Project Details: Load Testing of Fabricated Brace 'Netbrace' Samples

Item Details as supplied: Qty 1, Fabricated Brace 'Netbrace', ID No. NBR27-350, Sample ID No. M01  
Qty 1, Fabricated Brace 'Netbrace', ID No. NBR27-450, Sample ID No. M02  
Qty 1, Fabricated Brace 'Netbrace', ID No. NBR27-600, Sample ID No. M03

Compliance: Refer Test Results

Revision No: 1  
Revision Date: 16 March 2020  
Revision Details: Permanent set updated on Page 3

Technician/s: Allan Dean

Approved by: Fabian Lyons

Signature:



Re-issue Date: 16 March 2020

AlfaTest Report No: 20200543M01 Re-issue

Date of Test: 09 to 11 March 2020

## Testing Details

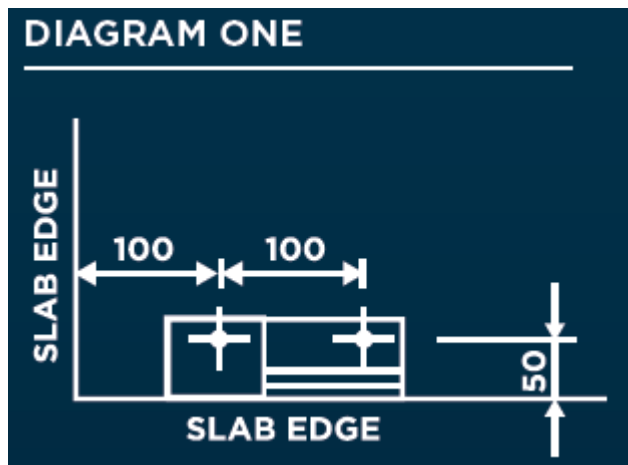
### Installation Notes

4 x M16 x 120 Grade 8.8 Chemical Anchors used.

Minimum stud anchor edge distances to slab as per Diagram 1 shown below.

Stud frames and top plates to be fixed to the NETBRACE® in accordance with good building practices.

Brace concealed within wall cavity, protected from elements.



### Technical Details

Test Procedure:	TP 230	Test Spec:	Client's Requirements
Material Spec:	Not specified	Acceptance Spec:	Client's Requirements
Client Requirements:	Test to loads specified in the Netbrace Lateral Wall Bracing Fact Sheet Netbrace serviceability deflection Limits Height/ 250 or 10mm maximum lateral deflection		

Equipment:	10T Dura-Pac Cylinder	Equipment No:	2599
Equipment:	600bar Transducer	Equipment No:	1550
Equipment:	Wika Digital Reader	Equipment No:	1556
Equipment:	Distance Meter	Equipment No:	2752

Test Restrictions/  
Deviations: Nil

Note;

Customer supplied information may affect the validity of the test results

\* Asterix indicates client supplied information

AlfaTest Report No: 20200543M01 Re-issue

Date of Test: 09 to 11 March 2020

## Lateral Static Load Testing

Qty 3, Fabricated Brace 'Netbrace', ID Nos. NBR27-350, NBR27-450, NBR27-600

### Test Results

Sample Reference	Height of Centre mm	Load Applied kN	Hold Time seconds	Deflection mm	Deflection after Load mm	Permanent Set mm	Result / Comments
M01-A NBR27-350	890	7.7	300	4	0	0	Pass
M02-A NBR27-450	916	9.9	300	4	0	0	Pass
M03-A NBR27-600	890	13.2	300	5	0	0	Pass

## Static Vertical Load Testing

Qty 1, Fabricated Brace 'Netbrace', ID No. NBR27-600

### Test Results

Sample Reference	Height of Centre mm	Load Applied kN	Hold Time seconds	Deflection mm	Deflection after Load mm	Permanent Set mm	Result / Comments
M03-A NBR27-600	543	100	300	1	0	0	Pass

AlfaTest Report No: 20200543M01 Re-issue

Date of Test:

09 to 11 March 2020

## Lateral Static Load Testing

---

### Photographs



Photograph 1. General View of Lateral Static Load Testing (typical).

AlfaTest Report No: 20200543M01 Re-issue

Date of Test: 09 to 11 March 2020

## **Lateral Static Load Testing**

---

### **Photographs**



Photograph 2. Detail View of M01 - NBR27-350 Hole deformation during testing.



AlfaTest Report No: 20200543M01 Re-issue

Date of Test: 09 to 11 March 2020

## Static Vertical Load Testing

---

### Photographs



Photograph 3. General View of Vertical Static Load Testing.