



## REGULATORY INFORMATION REPORT

The fire resistance performance of UBIQ  
INEX>WALLBOARD12 SYSTEM NLB-  
162 wall if tested in accordance with  
AS1530.4-2005

**EWFA Report No:**

RIR 33287300

**Report Sponsor:**

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## DOCUMENT REVISION STATUS

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## 1 INTRODUCTION

This report contains the minimum information sufficient for regulatory compliance and refers to the Assessment report EWFA 33287300.

The referenced report presents an assessment of the fire resistance performance of UBIQ INEX>WALLBOARD12 SYSTEM NLB-162 wall if tested in accordance with AS1530.4-2005

The tested systems are described in Section 2 and are to be subject to the proposed variations described in Section 3 and tested in accordance with the referenced test method described in Section 4. The conclusions of the report are summarised in Section 5.

The validity of this assessment is conditional on compliance with Sections 7, 8, and 9 of this report.

## 2 TESTED PROTOTYPES

The referenced assessment is based on test report EWFA 31526000.1, which was sponsored by UBIQ and conducted by Exova Warringtonfire Aus Pty Ltd.

The test EWFA 31526000.1 describes a test of a non-loadbearing 162mm thick steel framed wall lined with sheeting which is stated by the sponsor to be identical to INEX>WALLBOARD12 on both the exposed side and the unexposed side.

## 3 VARIATION TO TESTED PROTOTYPES

The wall construction shall be as tested in EWFA 31526000.1 subject to the following variations:

- Increase wall height for stud spacing listed in Table 2.
- For -/60/60 applications the wall to include only 2 x 75mm Bradford Acoustiguard insulation 24kg/m<sup>3</sup> or 1 x 145mm Knauf Earthwool 8.6kg/m<sup>3</sup> insulation.

**Table 1 - Schedule of Components**

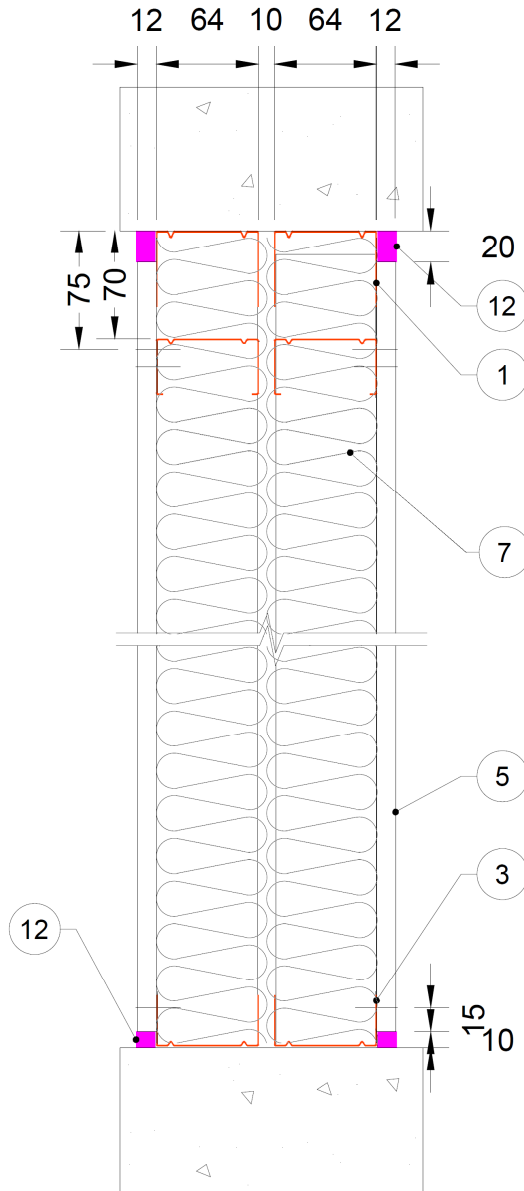
Item	Description	
1	<b>Name</b>	<b>Top deflection track</b>
	<b>Product</b>	Steel Top Track
	<b>Size</b>	65mm x 50mm x 0.75mm
	<b>Installation</b>	Installed on top of the frame system and secured to concrete blockwork with 6.5mm Dyna-bolts (item 10) at 600mm centres.
2	<b>Name</b>	<b>Nogging</b>
	<b>Product</b>	Steel track
	<b>Size</b>	67.1mm x 30.2mm x 0.75mm
	<b>Installation</b>	Installed at 1100mm and 2300mm above the bottom track. Secured to the metal studs with self-drilling flat head screw.
3	<b>Name</b>	<b>Bottom track</b>
	<b>Product</b>	Steel track

Item	Description	
	<b>Size</b>	64mm × 30mm × 0.75mm
	<b>Installation</b>	Installed at the bottom of the frame system and secured to concrete blockwork with 6mm Dyna-bolt (item 10) at 600mm centres. The deflection track fixed to the stud with self-drilling flat head screw (item 9).
4	<b>Name</b>	<b>Stud</b>
	<b>Product</b>	64mm Stud
	<b>Size</b>	See Table 2
	<b>Installation</b>	Installed vertically at 600mm centres in the frame system. Secured to the noggings and bottom track with Self-drilling flat head screws.
5	<b>Name</b>	<b>Panels</b>
	<b>Product</b>	INEX> WALLBOARD12mm
	<b>Size</b>	2400mm long × 600mm wide × 12mm thick Recess: 50mm wide x 2.5mm deep
	<b>Density</b>	1279kg/m <sup>3</sup>
	<b>Installation</b>	Installed on the exposed side and the unexposed side of the wall system in vertical orientation in a staggered configuration. The board secured to the studs, bottom track and noggings with SIMPSON Strong-tie Quik Drive screws at 200mm centres with 15mm minimum distance between the board edge and the screws. Boards were butt joined and covered by two layer coat setting compound with fibreglass tape. The horizontal joints backed by backing board (item 6).
6	<b>Name</b>	<b>Backing board</b>
	<b>Product</b>	INEX> WALLBOARD 12mm
	<b>Size</b>	600mm long × 150mm wide × 12mm thick
	<b>Density</b>	1279kg/m <sup>3</sup>
	<b>Installation</b>	Installed on the back of the horizontal joins on both exposed and unexposed side. Secured into the panels with SIMPSON Strong-tie Quik Drive screws at 200 centres on both sides of the joint.
7	<b>Name</b>	<b>Cavity insulation 1</b>
	<b>Product</b>	Bradford Acoustiguard insulation batt
	<b>Size</b>	75mm thick
	<b>Density</b>	24 kg/m <sup>3</sup>
	<b>Installation</b>	Two batts back to back within the cavity between studs in both the exposed and unexposed frame. One installed in the front skin and the other installed in the back skin to give total combined thickness of 150mm.
8	<b>Name</b>	<b>Cavity insulation 2</b>
	<b>Product</b>	R3.0 Knauf 'Earthwool' Insulation batts
	<b>Size</b>	145mm thick
	<b>Density</b>	8.6 kg/m <sup>3</sup>
	<b>Installation</b>	One batt installed within the cavity between studs in both the exposed and unexposed frame.
9	<b>Name</b>	<b>Steel frame fixing</b>
	<b>Product</b>	Self-drilling flat head screw

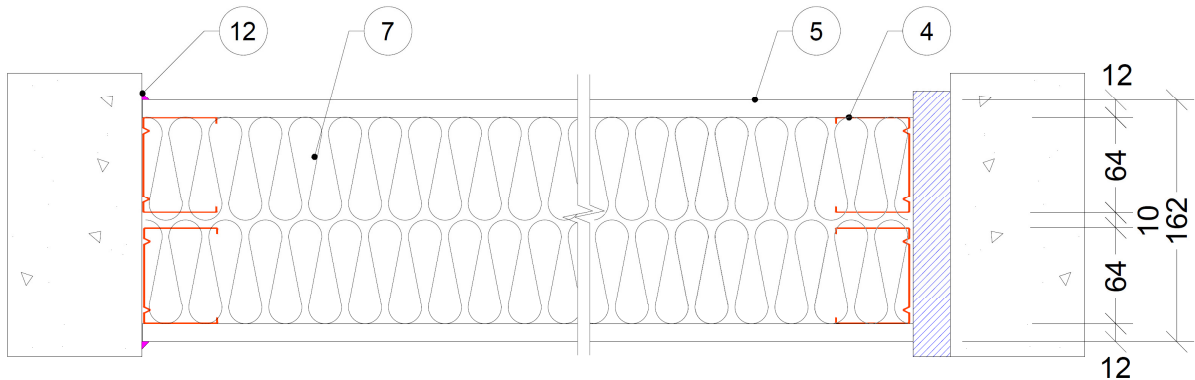
Item	Description	
	<b>Size</b>	10g x 16mm long
	<b>Installation</b>	Securing the noggings to the studs and the bottom track to the studs.
10	<b>Name</b>	<b>Panel fixing</b>
	<b>Product</b>	SIMPSON Strong-tie Quik Drive screw
	<b>Size</b>	8g x 42mm long
	<b>Installation</b>	Fixing the panels (items 5) to the steel frame system at 200mm centres along the edges. Staggered 200mm centres along the central studs. Fixing the backing board (item 6) to the panels at 200mm centres along the horizontal joints.
11	<b>Name</b>	<b>Track fixing</b>
	<b>Product</b>	Dyna-bolt
	<b>size</b>	6mm diameter x 35mm long
	<b>Installation</b>	Fixing the top and bottom tracks at 600mm centres.
12	<b>Name</b>	<b>Mastic</b>
	<b>Product</b>	Bostik 'FIREBAN ONE' Polyurethane sealant
	<b>Size</b>	20mm wide x 16mm deep
	<b>Location</b>	At edge junction of panels and concrete support construction.
13	<b>Name</b>	<b>Joint Compound</b>
	<b>Product</b>	Basecoat 45 with 50mm fibreglass tape
	<b>Application</b>	Applied to all vertical joints and finished with another coat of basecoat

**Table 2 – Stud Size/Wall Height**

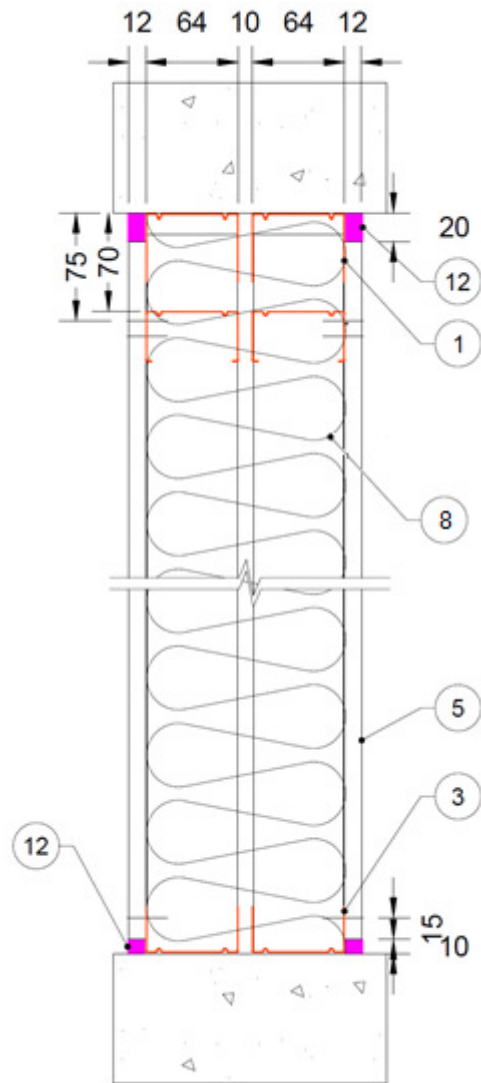
Stud size	Stud Spacing (mm)		
	300	450	600
	Max Wall Height (mm)		
64 x 50 0.75	4500	4050	3615



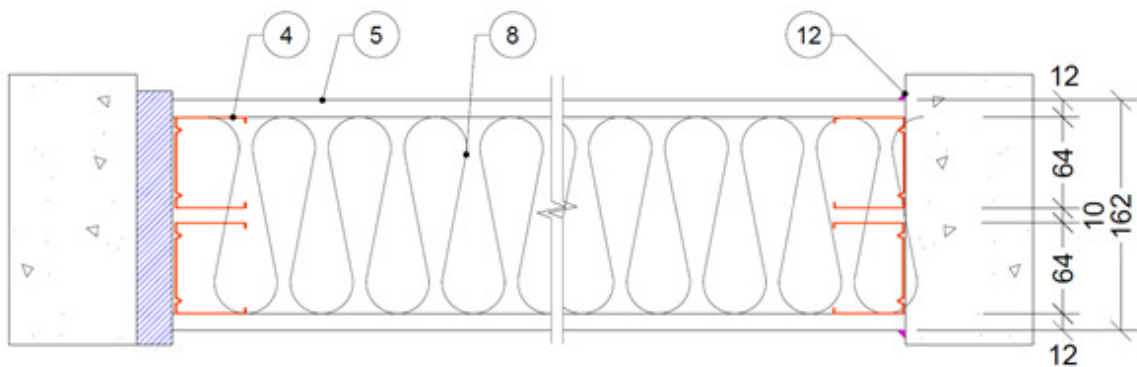
**Figure 1** – Vertical elevation with 2 x Bradford Acoustiguard insulation batt



**Figure 2** – Horizontal plan with 2 x Bradford Acoustiguard insulation batt



**Figure 3** - Vertical elevation with 1 x R3.0 Knauf 'Earthwool' Insulation batts



**Figure 4** – Horizontal plan 1 x R3.0 Knauf 'Earthwool' Insulation batts



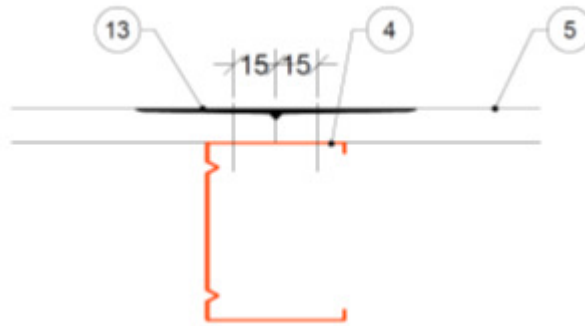


Figure 5 – Panel Junction Detail

## 4 REFERENCED TEST PROCEDURES

The referenced report is prepared with reference to the requirements of AS1530.4-2005 as appropriate for walls.

## 5 FORMAL ASSESSMENT SUMMARY

On the basis of the discussion presented in the referenced report, it is the opinion of this testing authority that if the tested prototypes described in Section 2 had been varied as in Section 3, they will achieve the fire resistance performances below if tested in accordance with the test method referenced in Section 4 and subject to the requirements of Section 7.

Wall Lining	Construction details	FRL
UBIQ INEX>WALLBOARD12	Figure 1, 2 and 5 and Table 1	-/60/60
	Figure 3, 4 and 5 and Table 1	

## 6 DIRECT FIELD OF APPLICATION

The results of the referenced assessment are applicable to walls exposed to fire from either side.

## 7 REQUIREMENTS

The referenced report details the methods of construction, test conditions and assessed results that would have been expected had the specific elements of construction described herein been tested in accordance with AS1530.4.

Any further variations with respect to size, constructional details, loads, stresses, edge or end conditions, other than those identified in the referenced report, may invalidate the conclusions drawn in the referenced report.

It is required that the top of the wall is supported by construction capable of providing adequate lateral support for the fire resistance period.

## 8 VALIDITY

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The referenced assessment report does not provide an endorsement by Exova Warringtonfire Aus Pty Ltd of the actual products supplied.

The conclusions of the referenced assessment may be used to directly assess the fire resistance performance under such conditions, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Because of the nature of fire resistance testing, and the consequent difficulty in quantifying the uncertainty of measurement, it is not possible to provide a stated degree of accuracy. The inherent variability in test procedures, materials and methods of construction, and installation may lead to variations in performance between elements of similar construction.

The assessment can therefore only relate only to the actual prototype test specimens, testing conditions and methodology described in the supporting data, and does not imply any performance abilities of constructions of subsequent manufacture. The referenced assessment is based on information and experience available at the time of preparation. The published procedures for the conduct of tests and the assessment of test results are the subject of constant review and improvement and it is recommended that the referenced report be reviewed on or, before, the stated expiry date.

The information contained in the referenced report shall not be used for the assessment of variations other than those stated in the conclusions above. The assessment is valid provided no modifications are made to the systems detailed in the referenced report.

All details of construction should be consistent with the requirements stated in the relevant test reports and all referenced documents.

## 9 AUTHORITY

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### 9.1 APPLICANT UNDERTAKINGS AND CONDITIONS OF USE

By using this report as evidence of compliance or performance, the applicant(s) confirms that:

- to their knowledge the component or element of structure, which is the subject of this assessment, has not been subjected to a fire test to the Standard against which this assessment is being made, and
- they agree to withdraw this assessment from circulation should the component or element of structure be the subject of a fire test by a test authority in accordance with the Standard against which this assessment is being made and the results are not in agreement with this assessment, and
- they are not aware of any information that could adversely affect the conclusions of this assessment and if they subsequently become aware of any such information, agree to ask the assessing authority to withdraw the assessment.

### 9.2 GENERAL CONDITIONS OF USE

This report may only be reproduced in full without modifications by the report sponsor. Copies, extracts or abridgments of this report in any form shall not be published by other organisations or individuals without the permission of Exova Warringtonfire Aus Pty Ltd.

### 9.3 AUTHORISATION ON BEHALF OF EXOVA WARRINGTONFIRE AUS PTY LTD

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D. Nicholson

Reviewed by:



K. G. Nicholls

### 9.4 DATE OF ISSUE

21/08/2015

### 9.5 EXPIRY DATE

31/08/2020