

Certificate of Testing




Certificate Number: 2013/59
Date: December 2013
System: Aliva Alucovering Rainscreen
System supplier: Aliva UK (Gruppo IVAS) Ltd

Tests performed:

Watertightness - dynamic	✓
Wind resistance - serviceability	✓
Wind resistance - safety	✓
Soft body impact	✓
Hard body impact	✓

In accordance with 'Standard for systemised building envelopes CWCT, 2006

Signed:  Test Witness

Signed  Director

Description of components tested

- Rainscreen system: **Aliva Alucovering Rainscreen**
- Panel material: Extruded aluminium planks
- Panel size: Planks 200mm wide and 2.4m long. Planks in test specimen supported on horizontal T rails and arranged to span vertically. Planks can also be fixed to span in other directions.
- Joint along plank edges: Closed
- Support system: Horizontal rails at 450mm centres fixed to back wall with brackets at 500mm centres;
- Fixings: Brackets fixed to studs with self-drilling screws; 3No screws per bracket;
- Rails fixed to brackets with rivets; 1 No rivet for sliding connections and 2 No rivets for fixed connections;
- Panels connected to one rail with rivets to provide a fixed point with clips used at remaining rails to permit movement.
- Drainage and ventilation: Drained and ventilated rainscreen cavity
- Backing wall: Framing: Vertical steel studs at 500mm centres
Sheeting on cavity face: Cement particle board
Sheeting on inner face: None

Testing laboratory Technology Centre
VINCI Construction UK Ltd
Stanbridge Road
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Registration No: UKAS No 0057

Independent testing authority Technology Centre
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Witness: Alan Keiller, CWCT
University of Bath
Claverton Down
Bath BA2 7AY

Date of test: 28 June to 3 July 2013

SUMMARY OF RESULTS

Watertightness - dynamic: PASS

Note: During the test some water entered the rainscreen cavity.

The amount of water reaching the back wall was small however it is recommended that any surfaces that would be adversely affected by the presence of water should be protected by a breather membrane.

Flashings are also required to drain water from the bottom of the cavity.

Wind resistance: PASS

Serviceability test pressure: 2400Pa

Note: No significant deflection of planks detected at 2400Pa

Safety test pressure: 3600Pa

Soft body impact test to CWCT TN 76

Impact Energy 500 Nm

Risk class; Negligible risk

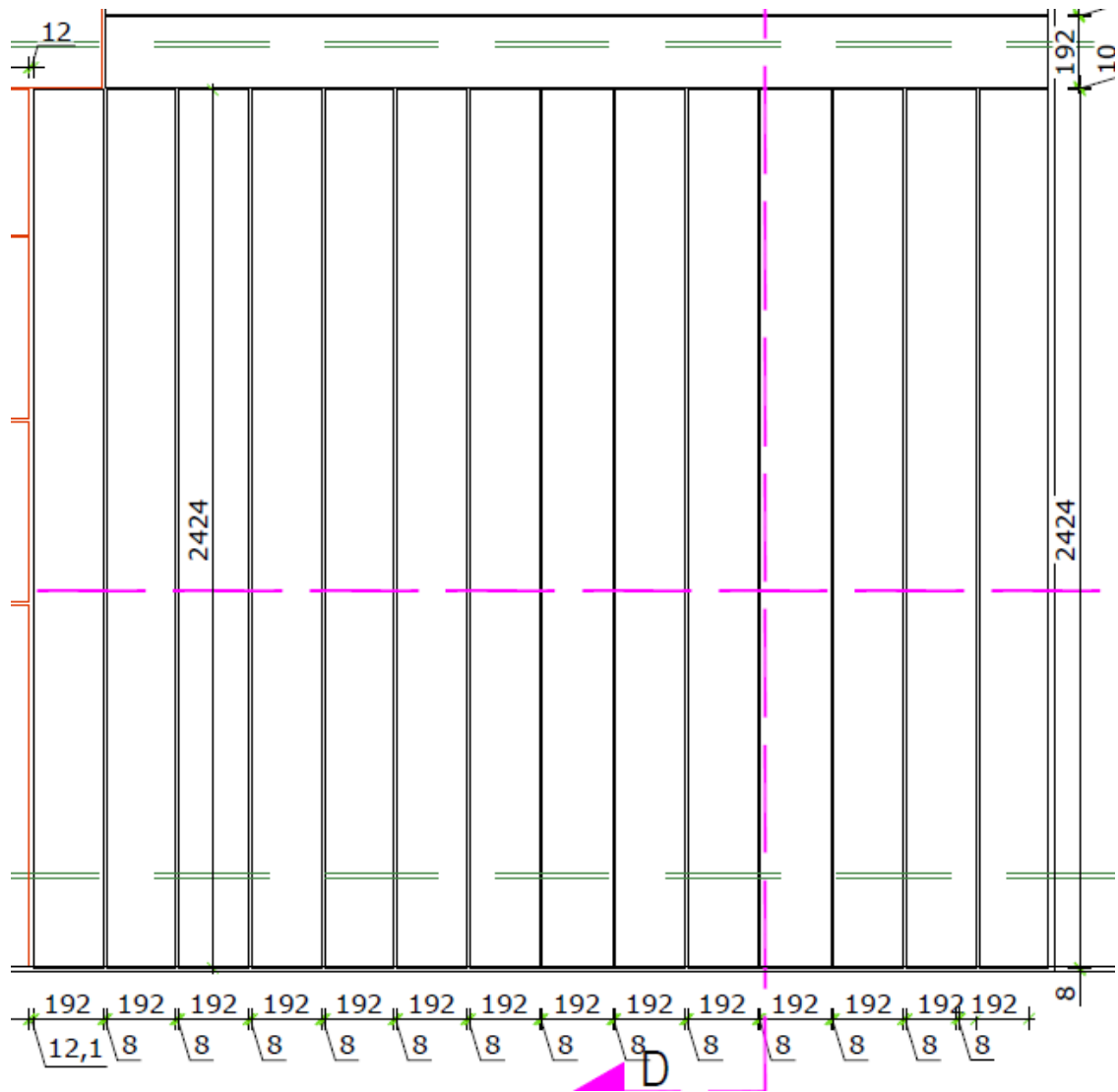
Hard body impact test to CWCT TN76

Impact energy 10Nm

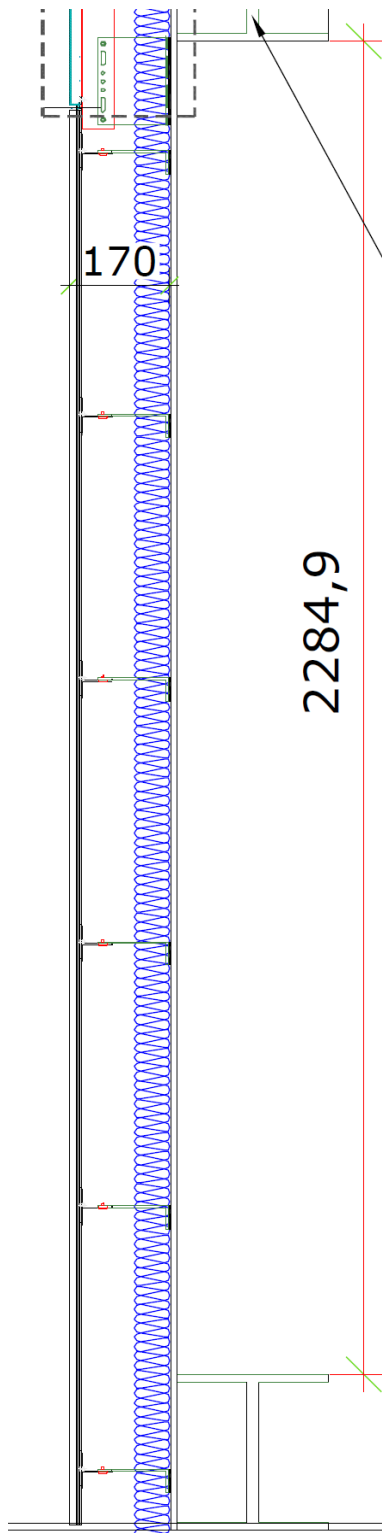
Risk class Negligible risk

Note:

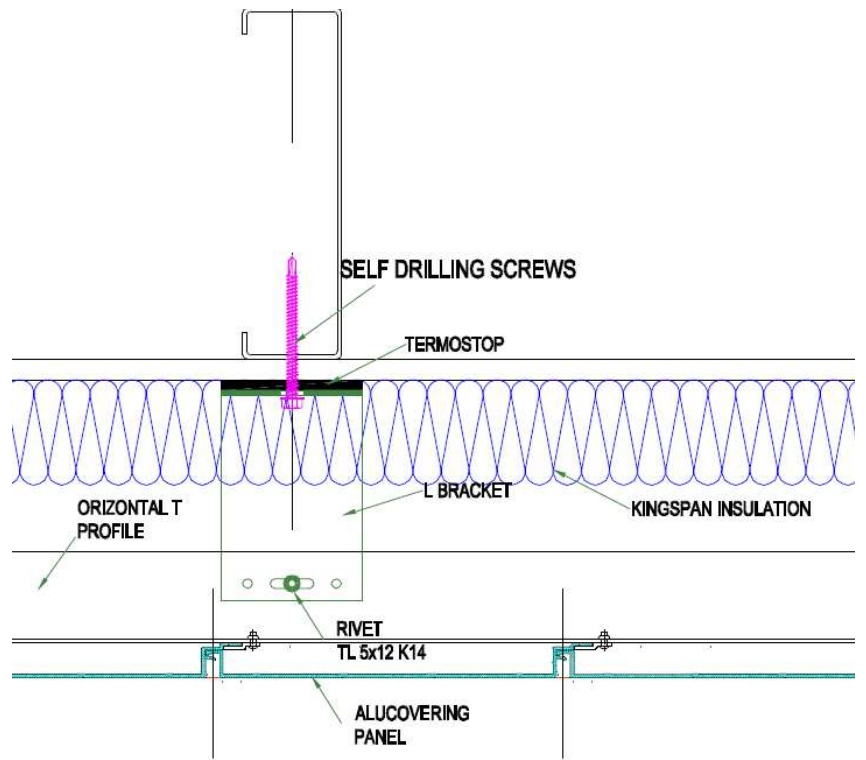
Impact tests carried out to determine safety. The highest performance is negligible risk and indicates no material fell from the sample during the test. No damage was detected under the soft body impact and only minor dents were caused by the hard body impact.



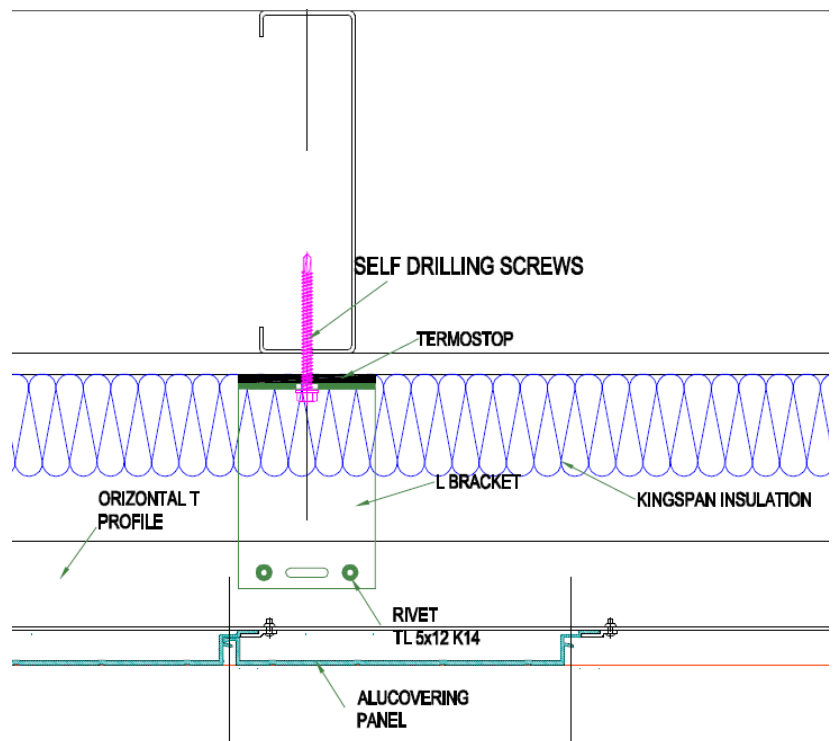
Elevation of test wall showing plank layout.



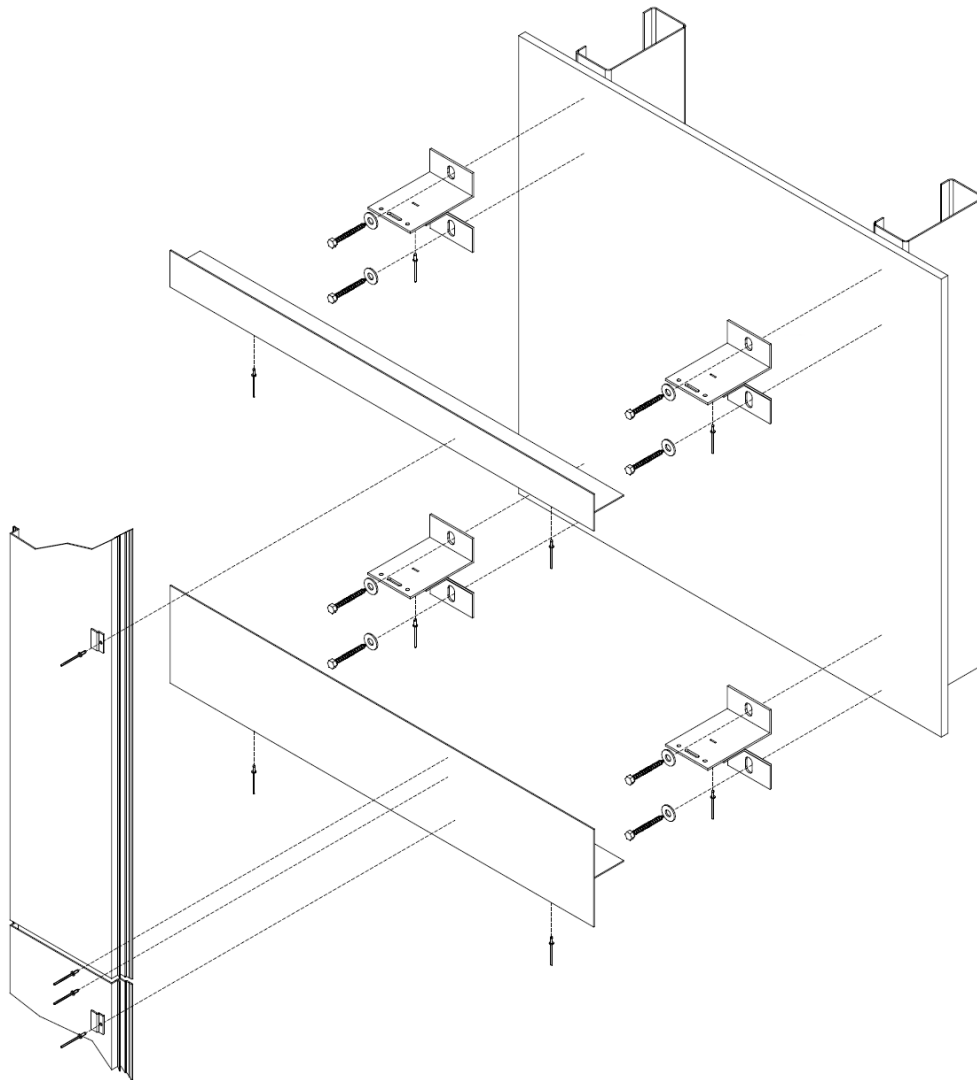
Vertical section through wall



Horizontal section showing sliding bracket



Horizontal section showing fixed bracket



Exploded view showing assembly of rainscreen system

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1210 Parkview
Arlington Business Park
Theale
Berkshire
RG7 4TY

Installer: Aliva UK Ltd
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