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## BRITISH BOARD OF AGRÉMENT TEST REPORT T164002

### STENI AS – STENI COLOUR/VISION

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Approved By:

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Date: 21 February 2019

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Date: 22 February 2019

On behalf of the British Board of Agrément

**Client:** Steni AS  
Lågendalsveien 2633  
3277 Steinsholt  
Norway

**Requested by:** Jan Marius Kruse (Steni)

**Job No:** T1 64002

**Work Period:** February 2019

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## 1 REPORT CONDITIONS

### 1.1 This Report:

- relates only to the product/system and sample/specimen thereof named and described herein
- relates only to the specified tests and test conditions described herein
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## 2 HARD BODY RESISTANCE

### 2.1 Method

In accordance with ETAG 034 Edition April 2012 *Guideline for European technical approval of kits for external wall claddings Part I : ventilated cladding kits comprising cladding components and associated fixings*. Section 5.4.4.1 *Impact resistance*.

Except that, due to the minimal amount of material provided, the intention was that the lower energy impact would only be performed if the high energy impact caused damage.

The client did not supply fixings. Fixings were selected by the BBA, based on specifications supplied by the client. See Appendix A Client information.

Fixing centres were set using a diagram supplied by the client. See Appendix A Client information.

As instructed by the client, a strip of the polymer membrane tape was installed between each wooden batten and the board under test.

### 2.2 Samples

BBA Ref/Lot	Quantity	Description
T1/64002/1	1	STENI Colour/Vision wall cladding board 1200x1500mm (Class A QB 05-07 B, s1 -do 17.08.18 12:35:28)
T1/64002/2	1	STENI AS EPDM Polymer membrane tape 95mm by 25m (7071752507522)

### 2.3 Results

Impact energy (J)	Impact	Observations
3	NA <sup>(1)</sup>	NA <sup>(1)</sup>
10	1 2 3	No discernible cracks, dents or scuffs. Board remained entirely untouched.

(1) Since high energy impact caused no damage, low energy impact was not applied

Also see Section 4 *Photographs*.

### 3 SOFT BODY IMPACT

#### 3.1 Method

In accordance with ETAG 034 Edition April 2012 *Guideline for European technical approval of kits for external wall claddings part i : ventilated cladding kits comprising cladding components and associated fixings*. Section 5.4.4.2 *Resistance to soft body impact*.

Except that, due to the minimal amount of material provided, the intention was that the lower energy impact would only be performed if the high energy impact caused damage.

The client did not supply fixings. Fixings were selected by the BBA, based on specifications supplied by the client. See Appendix A Client information.

Fixing centres were set using a diagram supplied by the client. See Appendix A Client information.

As instructed by the client, a strip of the polymer membrane tape was installed between each wooden batten and the board under test.

#### 3.2 Samples

BBA Ref/Lot	Quantity	Description
T1/64002/1	1	STENI Colour/Vision wall cladding board 1200x1500mm (Class A QB 05-07 B, s1 -do 17.08.18 12:35:28)
T1/64002/2	1	STENI AS EPDM Polymer membrane tape 95mm by 25m (7071752507522)

#### 3.3 Results

Impact energy (J)	Impact	Observations
60	NA <sup>(1)</sup>	NA <sup>(1)</sup>
400	1 2	No discernible cracks, dents or scuffs. Board remained entirely untouched.

(1) Since high energy impact caused no damage, low energy impact was not applied

Also see Section 4 Photographs.

4 PHOTOGRAPHS

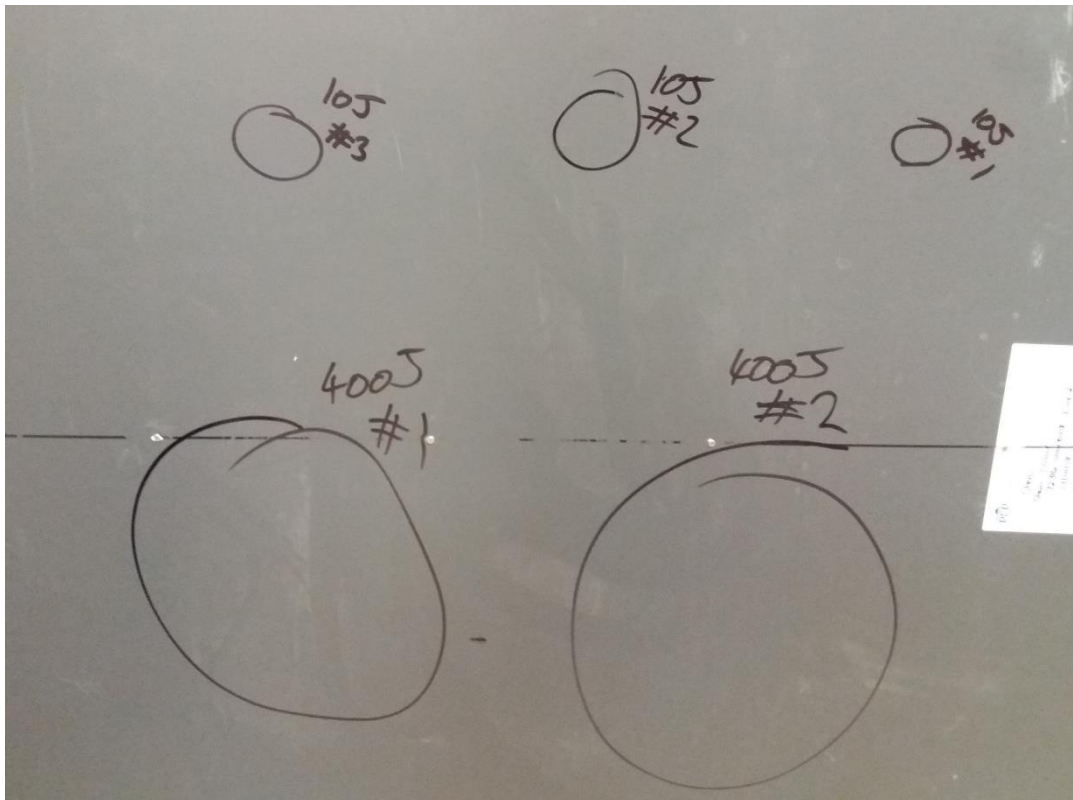


Plate 4.1: The whole installed board, showing both hard and soft body impacts

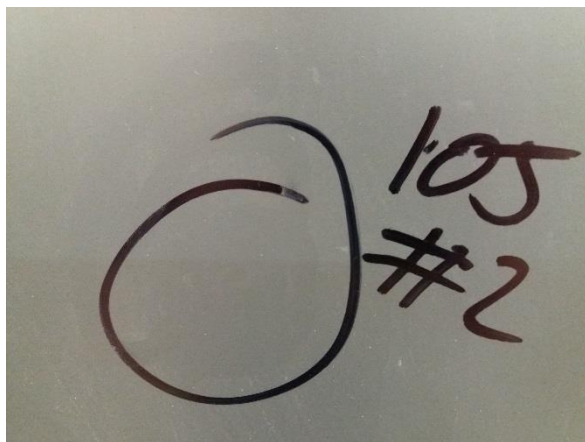


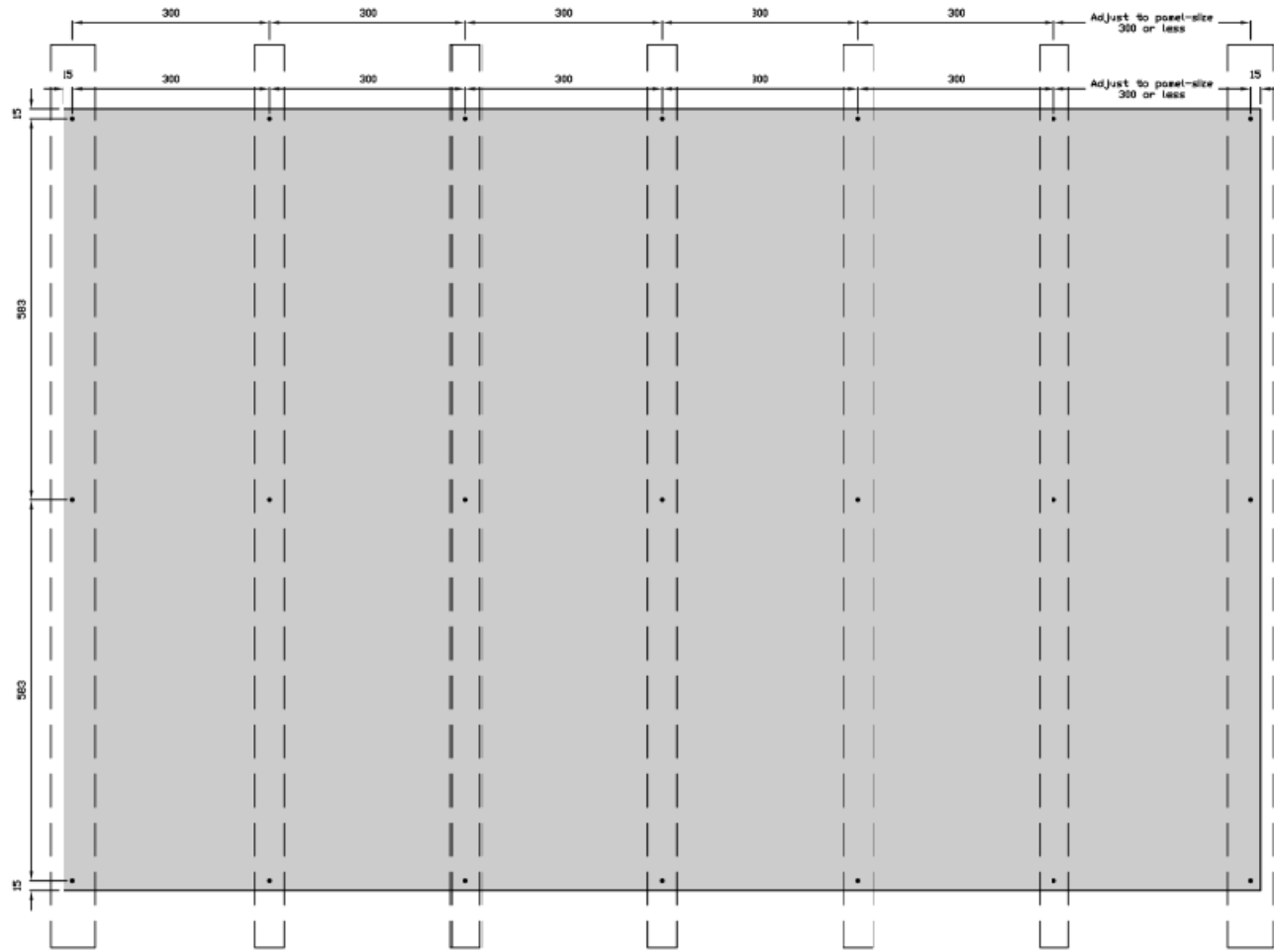
Plate 4.2: Hard body impacts made no impression on the board.



Plate 4.3: Soft body impact made no impression on the board.

## **APPENDIX A - CLIENT INFORMATION**

Documentary information from the client to aid the install



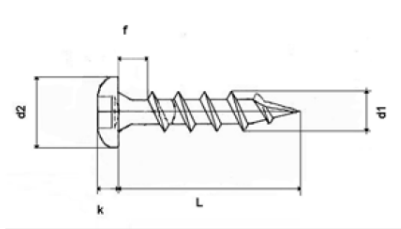
# TECHNICAL INFORMATION

## STENI wood screws

### INSTALLING STENI PANELS ONTO A WOOD BACKING

#### DIMENSIONS

4.0 x 28 mm  
4.0 x 33 mm



Dimensions in mm.

d1	d2	L	k	f	Screw bits
4.0	8.7	28	2.5	5.0	R1 or T-20
4.0	8.7	33	2.5	5.0	R1 or T-20

#### MATERIAL

Acid-proof steel A4 – ISO 3506.

#### CORROSION CLASS

C5.

#### SCREW HEAD

Untreated or powder-coated on Zinc primer.

#### QUANTITY

500 screws/carton.

#### CAPACITY

Wood, Fd = 341 N/ screw. NS-EN 1995-1-1:2004.

Minimum 15 mm anchor into the wood.

Untreated wood with a minimum quality of C18 RH 20% (EN 338)

Impregnated wood with a minimum quality of C18 RH 20% (AB ref.

NTR document no.1.UC3 in accordance with EN 335 and NP5 in

accordance with EN 351-1).

An on-site inspection must be performed.

#### INSTALLATION

The panel moves slightly based on climatic and temperature variations. To ensure that this can be accommodated, mount the screw in the centre of the pre-drilled holes. Perform some on-site tests to calibrate the torque of screw gun prior to installation.

Max torque = 2/3 of the average test torque.

The screw should fasten the panel. The correct torque is determined based on the effect on the panel and the desired end result.

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# TECHNICAL INFORMATION



## STENI polymer vapour barrier

### USE EPDM JOINT TAPE BETWEEN STENI FAÇADE PANELS AND FURRING STRIPS

<b>FUNCTION</b>	Prevents direct exposure to rain, wind and sunlight and hides the furring strips. Reduce/prevent furring strips from getting wet. Reduce/prevent diffusion between the furring strip and façade panel. Uniform colour in joints regardless of the appearance and colour of the furring strips. Seal the area around anchor points for the façade panel.
<b>DIMENSIONS</b>	0.75 x 70 mm 0.75 x 95 mm 0,75 x 120 mm
<b>MATERIAL</b>	EPDM Rubber Polymer
<b>COLOUR</b>	Black (NCS S 9000-N) Grey (NCS S 6000-N) White (NCS S 1005-Y20R)
<b>PACKAGING</b>	25m per roll.
<b>STORAGE</b>	Store in a cool, dry place in the original packaging.
<b>INSTALLATION</b>	The sealing tape should be temporarily stapled to the laths before installing the panels. Use a staple gun or similar tool. Alternatively, you can use a thin, polymer-based construction tape or glue. If you use glue, follow the manufacturer's usage instructions. Use a roller to press membrane firmly to the furring strip. Do not stretch the vapour barrier during installation.



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