

## SUMMARY REPORT

**Lucideon Reference:** UK214854 (QT-65959/3/JB)/Ref. 8

**Project Title:** Future Rooms Ltd's Insulation Panel Summary Sheet

**Client:** Future Rooms Ltd  
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**For the Attention of:** Mr Sam Moore

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**Purchase Order No.:** FR/TE/11-21

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**Work Location:** Lucideon UK

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Miss Joanne Booth  
**Testing Team  
Reviewer**



Mr Justin Fryer  
**Testing Team  
Project Manager**



## TEST SUMMARY SHEET

Future Rooms Ltd  
Future SIPs  
Future Annex

### WALL – 1220 mm x 2440 mm x 180 mm PANEL

#### **Axial compressive load to BS 5268 – *Passed***

- 224.41 kN/m

#### **Eccentric compressive load to BS 5268 – *Passed***

- 194.08 kN/m

#### **Racking load to BS EN 594 – *Passed***

- 3 No. tested with 0 kN top load and 3 No. tested with 5 kN/stud (equivalent) top load
- 3.24 kN/m and 3.84 kN/m, respectively

#### **Simulated positive and negative wind load to BS EN 1991 – *Passed***

- 4.25 kPa

#### **Test under three-point bending**

- 3915.33 N

#### **Test under three-point bending with an applied eccentric vertical load**

- 3868.33 N

### ROOF PANEL TEST – 1197 mm x 3000 mm x 208 mm PANEL

#### **UDL at maximum 3 m span – Design loads from BS EN 1991 – *Passed***

- 6.08 mm deflection at 18.5 kPa

#### **Tested under soft body and hard body impact to BS EN 12187 – *Passed***

#### **Varying UDL with a constant gradient of load going from maximum snow load at one end to zero load at the other end**

- 15.11 mm deflection at 3.61 kN/m<sup>2</sup>

#### **Tested under point load at maximum span at different positions classed as worse case**

- Centre of panel:  
21.31 mm deflection at 13546.66 N
- Centre edge of panel:  
27.45 mm deflection at 16140 N