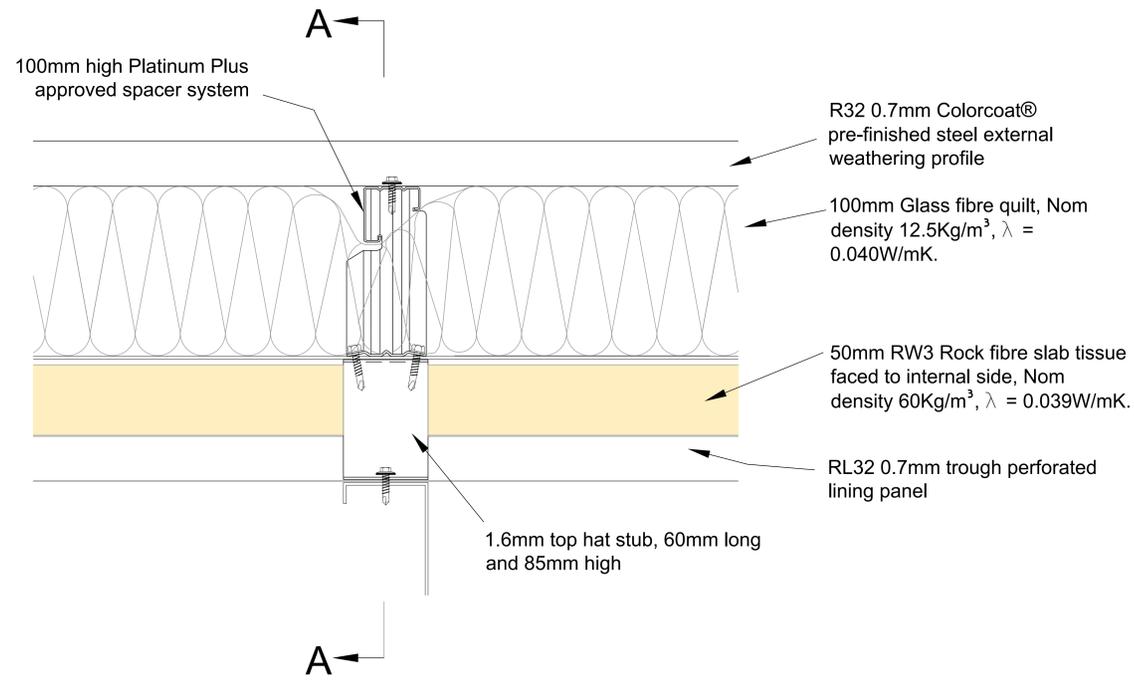


Tata Steel retain the right to ammend the construction and technical specifications shown on this drawing without prior notice.

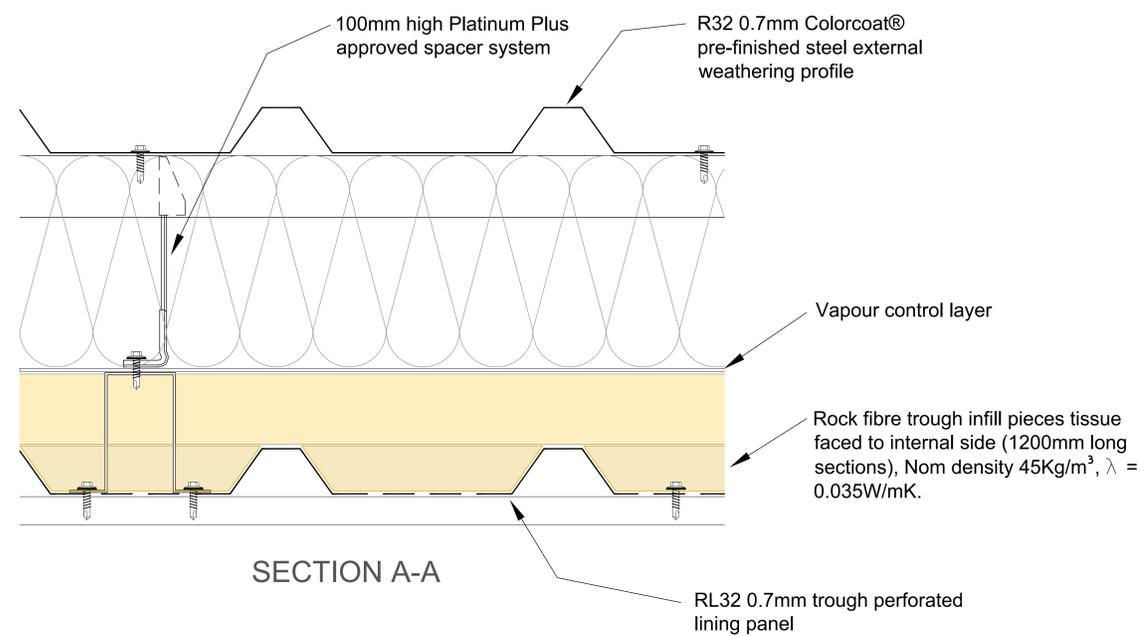
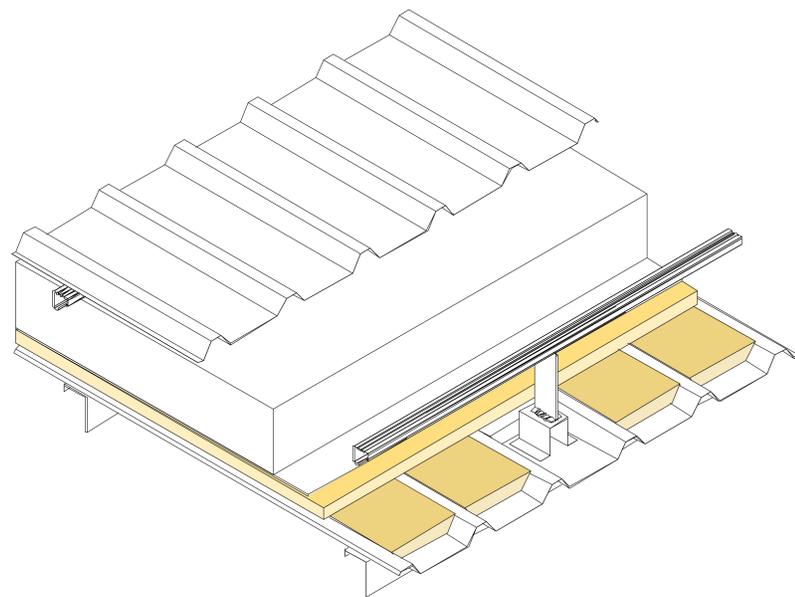


Test Report Ref: L/3142(3)      Tested: 30/03/2010

| Frequency (Hz) | Sound Absorption |             |
|----------------|------------------|-------------|
|                | $\bar{A}_s$      | $\bar{A}_p$ |
| 50             | 0.26             |             |
| 63             | 0.65             | 0.50        |
| 80             | 0.59             |             |
| 100            | 0.90             |             |
| 125            | 0.93             | 1.00        |
| 160            | 1.12             |             |
| 200            | 1.14             |             |
| 250            | 1.00             | 1.00        |
| 315            | 1.08             |             |
| 400            | 1.08             |             |
| 500            | 1.10             | 1.00        |
| 630            | 1.09             |             |
| 800            | 1.05             |             |
| 1000           | 0.99             | 1.00        |
| 1250           | 0.90             |             |
| 1600           | 0.76             |             |
| 2000           | 0.71             | 0.75        |
| 2500           | 0.72             |             |
| 3150           | 0.74             |             |
| 4000           | 0.67             | 0.70        |
| 5000           | 0.69             |             |

Single Figure Rating:  $\bar{A}_w = 1.00$ , Sound Absorption Class B

The tested construction is as drawn, deeper spacers and thicker layers of glass fibre quilt can be used for lower U-value requirements, and would not be expected to be detrimental to the acoustic performance.



All support steelwork by others

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TRISOBUILD™ BUILT UP U-VALUES

The depth below refers to both the top spacer bracket & quilt insulation height and assumed purlin centres of 1800mm and bracket centres of 1000mm

- Depth 100 = 0.23 W/m<sup>2</sup>K.
- Depth 120 = 0.20 W/m<sup>2</sup>K.
- Depth 140 = 0.19 W/m<sup>2</sup>K.
- Depth 180 = 0.16 W/m<sup>2</sup>K.



**Building Systems UK**  
A Tata Steel enterprise

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|             |          |                                                               |           |
|-------------|----------|---------------------------------------------------------------|-----------|
| PROJECT     |          | Typical Trisobuild Built Up Roof Detail                       |           |
| TITLE       |          |                                                               |           |
|             |          | Sound Absorbtion System - Perforated RL32 with trough infills |           |
| DRAWN BY    | LK       | SCALE                                                         | NTS       |
| APPROVED BY | PS       | TOLERANCES                                                    |           |
| DATE        | 02/06/23 | DRG. No.                                                      | R1-046-02 |