

## Trisobuild® HW / HW FW

### External site assembled insulated Horizontal wall systems

Trisobuild® HW / HW FW is Building Systems UK's site-assembled built-up horizontal wall system that comprises a Colorcoat® pre-finished steel LP1000 trapezoidal liner, the Instaloc® HW+ spacer system for structural depth and insulation cavity, a glass fibre quilt insulation layer and a Colorcoat® pre-finished steel external weathering profile. The Trisobuild® HW FW is a specially developed variant whose specification has been rigorously tested to deliver a range of certified fire-resistance performance.

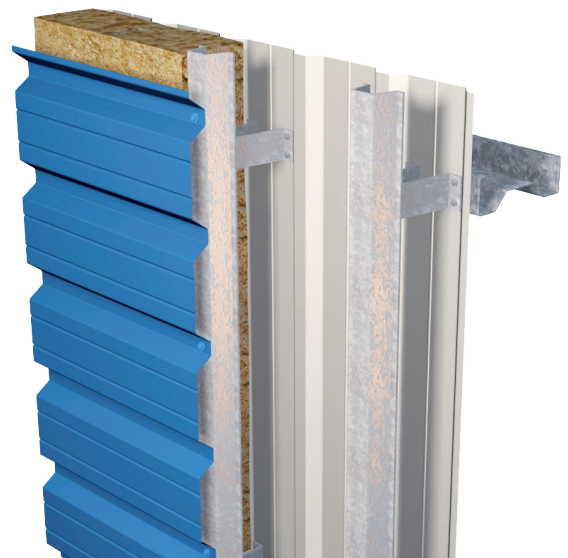
Manufactured in factory conditions operating to quality management standard BS EN ISO 9001:2015, environmental management standard BS EN ISO 14001: 2015 and occupational health and safety management standard BS EN ISO 45001:2018.

Full traceability of all component materials and certified 'very good' to BRE's responsible sourcing standard BES 6001. Available with a bespoke Environmental Product Declaration to EN 15804.

**Table 1 - System information**

|                                                      | Trisobuild® HW / HW FW                                                          |
|------------------------------------------------------|---------------------------------------------------------------------------------|
| External Profiles                                    | CL19, C32MR, C46, HR50, R32, R35, R40, R46, WP40H, R13.5/3, 42/960, 300MR       |
| External finishes                                    | Colorcoat HPS200 Ultra®, Colorcoat Prisma®                                      |
| Internal finishes                                    | Colorcoat® PE15, Colorcoat® HR                                                  |
| Spacer System                                        | Instaloc® HW+                                                                   |
| Insulation                                           | 0.040 W/mK lambda                                                               |
| Liner                                                | LP1000                                                                          |
| System Components (Platinum Plus approved suppliers) | Fasteners, wall lights, flashings, butyl sealants, profile filler, fabrications |

**Figure 1. Trisobuild HW / HW FW build up**



## Platinum® Plus 25 year system guarantee.

Trisobuild® and a range of system components including fixings, wall lights, sealants and fillers are available with our Platinum® Plus system guarantee providing a complete building envelope solution guarantee for 25 years.

Colorcoat HPS200 Ultra® and Colorcoat Prisma® long-term performance with the Confidex® Guarantee and providing peace of mind for up to 40 years. [Click here to learn more](#)



Our online specification generator tool has been designed to help you create the right specification to suit the needs of your project, making sure all roofing and cladding components listed are compatible and perform as a guaranteed system.



[Click here to build your specification](#)

# System Performance

## Reaction to fire

- The finishes within the Trisobuild® HW / HW FW systems have been tested and classified to BS EN 13501-1.

**Table 2 - Reaction to fire classifications**

| External Finishes       | Classifications |
|-------------------------|-----------------|
| Colorcoat HPS200 Ultra® | C s2 d0         |
| Colorcoat Prisma®       | A1              |
| Internal Finish         | Classifications |
| Colorcoat® PE15         | A1              |
| Colorcoat® High Reflect | A1              |
| Colorcoat HPS200 Ultra® | C s2 d0         |



## Resistance to fire

**Table 3 - Resistance to fire information**

| System              | Instaloc Plus Spacer Depth (mm) | Insulation type and depth (mm)  | External profile min gauge and type  | External finish                              | Test Standard | Classifications       |                      | Max Span (mm) |
|---------------------|---------------------------------|---------------------------------|--------------------------------------|----------------------------------------------|---------------|-----------------------|----------------------|---------------|
|                     |                                 |                                 |                                      |                                              |               | Insulation resistance | Integrity resistance |               |
| Trisobuild® HW FW15 | 140                             | Knauf FactoryClad 40: 160 mm    | 0.5 mm, all overlapping profiles     | Colorcoat Prisma®                            | EN 1364-1     | 15                    | 60                   | 3000          |
| Trisobuild® HW FW15 | 140                             | Knauf FactoryClad 40: 160 mm    | 0.7 mm, all overlapping profiles     | Colorcoat Prisma® or Colorcoat HPS200 Ultra® | EN 1364-1     | 15                    | 120                  | 3000          |
| Trisobuild® HW FW15 | 140                             | Knauf FactoryClad 40: 160 mm    | 0.7 mm, all overlapping profiles     | Colorcoat Prisma®                            | EN 1364-1     | 20                    | 240                  | 3000          |
| Trisobuild® HW FW15 | 180                             | Knauf FactoryClad 40: 180 mm    | 0.7 mm, interlocking profile (300MR) | Colorcoat Prisma® or Colorcoat HPS200 Ultra® | EN 1364-1     | 15                    | 120                  | 3000          |
| Trisobuild® HW FW30 | 240                             | Rockwool cladding quilt: 240 mm | 0.7 mm, all overlapping profiles     | Colorcoat Prisma® or Colorcoat HPS200 Ultra® | EN 1364-1     | 30                    | 240                  | 2000          |
| Trisobuild® HW FW60 | 260                             | Rockwool cladding quilt: 260 mm | 0.7 mm, all overlapping profiles     | Colorcoat Prisma® or Colorcoat HPS200 Ultra® | EN 1364-1     | 60                    | 240                  | 2000          |

Classification to BS EN 13501-2, as tested and assessed to EN 1364-1

## Capable Member Integration

- Building Systems UK's Technical Team has collaborated with the BCSA, MCRMA, secondary steelwork suppliers, fastener manufacturers, and accredited third-party test facilities to develop validated engineering methodologies for the integration of capable members within our approved fire wall cladding systems. To ensure compliance with design and performance recommendations, early engagement with the Building Systems UK **Technical Team** is required to establish design intent and confirm interface details, which are additional to the performance data above.

## Thermal Performance

- Trisobuild® HW / HW FW complies with the minimum requirements of the conservation of fuel and power sections of the Building Regulations for England and Wales (Part L2) and Scotland (Technical Handbook Section 6 Energy).
- Thermal performance is calculated using computer modelling in accordance with EN ISO 10211 and assessed using the methods and conventions set out in the Building Research Establishment's Document BR 443.

**Table 4 - Depth vs U-value (W/m²K)**

| Instaloc® HW+ bracket height (mm) | Insulation depth (mm) | U-value (W/m²K) |
|-----------------------------------|-----------------------|-----------------|
| 120                               | 120                   | 0.35            |
| 140                               | 140                   | 0.30            |
| 160                               | 160                   | 0.26            |
| 180                               | 180                   | 0.23            |
| 200                               | 200                   | 0.21            |
| 220                               | 220                   | 0.19            |
| 240                               | 240                   | 0.18            |
| 260                               | 260                   | 0.16            |

U-values are based on secondary steelwork support at 1.5 m centres, 1.5m bracket spacing and insulation with a 0.040 W/mK thermal conductivity

## Air-tightness and weatherability

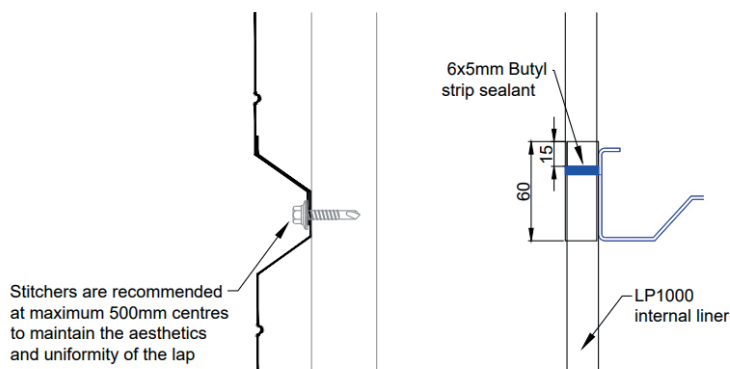
- Airtightness for Trisobuild® systems is generated by the liner sheet. When end laps and side laps are sealed, as shown on next page, sheet laboratory tests have shown leakage rates of <0.20 m<sup>3</sup>/h/m<sup>2</sup> for liner side laps and <0.30 m<sup>3</sup>/h/m<sup>2</sup> for liner end laps
- These low leakage rates together with robust junction detailing and workmanship will allow the system to comfortably meet and exceed the building regulation requirements.
- To meet the primary function, the outer sheet of the Trisobuild® system should be sealed at both side and end laps to ensure weathertightness from the outside - see details below.

## Third party accreditations

- LPCB (Loss Prevention Certification Board) approval to LPS 1181 Part 1.2 certified to EXT-B
- Specification is critical for compliance. Our Technical Team can help you with your specification drafting - or you can use our [SPECGEN tool](#).

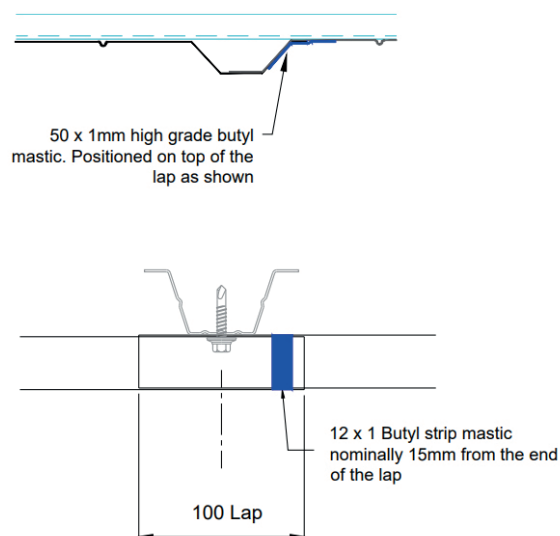


### Vertical section



(all units mm)

### Horizontal sections



## Acoustic performance

- The method for determining the airborne sound insulation of a building is specified in BS EN ISO 10140-2. Airborne noise may be a consideration from either internal process noise breakout e.g. a factory in a residential area, or external noise break-in e.g. airport terminal buildings. A building with a higher Sound Reduction Index (SRI) has a better acoustic performance.

Building Systems UK has a wealth of acoustic performance test data and have developed an acoustic performance prediction calculation tool. The weighted sound reduction index (Rw) is calculated by comparing the 16 values of SRI from 100Hz to 3150Hz with a defined reference curve in accordance with BS EN ISO 717-1. The values from this tool are shown opposite for a selection of system depths.

For individual frequency performance or to change the system build up please contact the Technical Team, email: [technical.envelopeproducts@tatasteeleurope.com](mailto:technical.envelopeproducts@tatasteeleurope.com)

**Table 5 - SRI weighted values, Rw(dB)**

| Insulation and cavity thickness (mm) | Trisobuild® HW / HW FW (dB) |
|--------------------------------------|-----------------------------|
| 160                                  | 38.7                        |
| 180                                  | 43.3                        |
| 200                                  | 43.5                        |
| 220                                  | 43.6                        |

**CAUTION:** The predicted SRI values should be used only to provide guidance for preliminary design and/or appraisal of cladding systems. Laboratory measurements should still be used to provide definitive acoustic data

For further information on our Trisobuild® system optimised for sound absorption performance please [click here](#).

## Site guidance

- Guidance on delivery, offload loading and construction can be found [here](#). These recommendations should be considered together with our typical construction details which can be found below within our useful links.

## Packaging

- Packaging for the Trisobuild® system external and liner profiles include loose timber packers with the sheets banded together. An additional sheet of the same profile is used as the top sheet of each pack, to help protect the sheets below from scratching during transportation. The sheets are supplied in a maximum pack weight of 1,500 kg.



### Other useful links and downloads



- 📄 Instaloc HW+ Spacer system details
- 📄 Declarations of performance
- 📄 BES 6001 Certification
- 📄 LPCB fire approval certification
- 📄 Typical Trisobuild® Horizontal Wall CAD drawings (dwg)
- 📄 Typical Trisobuild® Horizontal Wall CAD drawings (pdf)
- 📄 Request a CPD

# [www.buildingsystemsuk.com](http://www.buildingsystemsuk.com)

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