

# Roofspan\_NBS\_Specification

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## H43 Metal composite panel cladding/ covering

To be read with Preliminaries/ General conditions.

### TYPES OF CLADDING/ COVERING SYSTEM

- 120 METAL COMPOSITE PANEL Euroclad Group Ltd - Roofspan
- Support structure: Purlin and support centres to be advised or approved by Eurobond.
    - Bearing width: 60mm.
    - Pitch: No pitch lower than 5 degrees post deflection.
  - Panels:
    - Manufacturer: Euroclad Group Ltd Laminates Limited. Product reference: Roofspan.
    - External facing material: 37mm Trapezoidal profile Colorcoat HPS200 Ultra, or Colorcoat Prisma. Substrate must be ZA275 Galvalloy hot-dip zinc coated steel to BS EN 10326. Metal thickness to be a nominal 0.6mm (including zinc).  
Finish: TATA Steel HPS200 Ultra 200 microns.  
Colour: External sheet standard colour, from the TATA Steel HPS200 Ultra range.
    - Internal facing material: 0.5mm TATA Steel Colorcoat. Finish: Various profiles available.  
Colour: RAL 9010.
  - Core insulation: Stone Wool core.
  - Panel thickness: Ranging from 50mm to 200mm - not including 37mm trapezoidal profile.
  - Fire resistance tested for panel thickness 80mm, 100mm and 120mm up to 120 minutes Integrity & 120 minutes Insulation in accordance with EN13501-2:2016
  - Accessories: As required to complete installation.
  - Primary fasteners: Stainless steel self-drilling, self-tapping, high thread tek screw with washer.
    - Number and location of fasteners: Minimum of one fastener per trough, per fixing location, dependent upon wind loading.
  - End laps size (minimum): Available from 80mm to 300mm, but typically 150mm as set out by MCRMA.
  - Sealing laps.
    - End laps: Two rows of partially cross linked 6x5mm butyl rubber sealant.
    - Side laps: One row of partially cross linked 6x5mm butyl rubber sealant.
  - Stitching laps:
    - End laps: One per crown, 30mm up from edge.
    - Side laps: 450mm centres as per MCRMA guidelines.
  - Special features: Profiled closure flashings required at cut edge above gutter.

### FIXING CLADDING/ COVERING

- 215 PAINTING STRUCTURE
- Sequence: Paint outer surface of supporting structure before fixing cladding/ covering.
- 219 FASTENERS
- Unspecified fasteners: Recommended for the purpose by the cladding/ covering manufacturer.
- 221 FITTINGS AND ACCESSORIES
- Unspecified fittings and accessories: Recommended for the purpose by the cladding/ covering manufacturer.
- 223 PREVENTION OF ELECTROLYTIC ACTION
- Isolating tape: Type recommended by cladding/ covering manufacturer.
    - Location: To contact surfaces of supports and sheets of dissimilar metals.

275 CONTINUITY THERMAL INSULATION

- Material: Stone wool - minimum density 23kg/m<sup>3</sup>.
  - Manufacturer: N/A.
  - Product reference: N/A.
- Recycled content: Contractor's choice.
- Installation: Secure and continuous with cladding/ covering insulation.

410 FIXING PANELS AND SHEETS GENERALLY

- Cut edges: Clean true.
- Penetrations: Openings to minimum size necessary.
  - Edge reinforcement: Dependant on penetration - Contact Eurobond.
- Orientation: Exposed joints of side laps away from prevailing wind unless shown otherwise on drawings.
- Panel and sheet ends, laps and raking cut edges: Fully supported and with fixings at top of lap.
- Fasteners: Position at regular intervals in straight lines, centred on support bearings.
  - Fasteners torque: Sufficient to correctly compress washers.
- Debris: Remove dust and other foreign matter before finally fixing panel and sheets.
- Completion: Check fixings to ensure water tightness and that panels and sheets are secure.
- Cut edges: Paint to match face finish.

419 FIXING PLASTICS CLADDING/ COVERING

- Crown fixing: For panels/ sheets with a profile depth greater than 20 mm, support crowns at primary fasteners with profile fillers.
- Fastener holes: Sized in accordance with sheet manufacturer's recommendations.
- End laps between plastics sheets: Use two strips of sealant tape, one along each edge of lap.

480 FLASHINGS/ TRIMS GENERALLY

- Lap joint treatment:
  - Vertical and sloping flashings/ trims: End laps to be same as for adjacent panels.
  - Horizontal flashings/ trims: End laps to be 150 mm, sealed and where possible arranged with laps away from prevailing wind.
- Method of fixing: To structure in conjunction with adjacent panels. Otherwise to panels.
  - Fasteners: Eurobond to advise recommended suppliers.

550 SEALING EXTERNAL LAPS

- Sealant tape: Types recommended by panel/ sheet manufacturer.
- Position of tape: Below fixing positions in straight unbroken lines, parallel to and slightly back from edge of panel/ sheet.
- Seal quality: Effective, continuous and not over compressed.
- End laps: Sealant tape positions:
  - Single line tape: Immediately below line of fasteners.
  - Second line tape (where specified): Slightly set back from the edge of external sheet.
- Side laps: Sealant tape positions:
  - Single line tape: Outside line of fasteners.
  - Second line tape (where specified): On other side of fasteners.