

## COMPLETION

### 910 INSPECTION

- **Interim and final roof inspections:** Submit roof covering manufacturer's reports.

### 940 COMPLETION

- **Roof areas:** Clean.
  - **Outlets:** Clear.
- **Work necessary to provide a weathertight finish:** Complete.
- **Storage of materials on finished surface:** Not permitted.
- **Completed membrane:** Do not damage. Protect against damage from traffic and adjacent or high level working.

## WATERPROOF COVERINGS/ ACCESSORIES

### 740 ADHESIVE JOINTING

- **Side and end joints:**
  - **Laps (minimum):** 100mm
  - **Preparation:** Not Applicable
  - **Sealing:** Apply continuous even coverage of KS137 to both surfaces leaving the outer 20mm free from adhesive. Mate and roll together. Do not wrinkle or stretch. Apply thin even bead of KS87 sealant and roll out to a thickness of 1mm
- **Condition at completion:** Fully sealed, watertight and free draining.
- **Accessories:** 25mm/ 40mm compression roller

### 760 PERIMETER OF MEMBRANE

- **General:** Secure membrane at roof edge conditions, changes of plane, curb flashings, upstands to roof lights, etc. with contact adhesive KS137.

## SURFACING

### 810 LAYING INVERTED ROOF INSULATION

- **Preparation:** Clear roof of other trades.
- **Condition of substrate:** Clean.
- **Setting out:** Loose lay to brick pattern. Minimise cutting and avoid small cut pieces at perimeters and penetrations.
  - **Joints:** Butt together.
- **Projections, upstands, rainwater outlets, etc:** Cut insulation cleanly and fit closely around.
- **Completion:** Boards are in good condition, with no springing, or rocking. Cover to prevent wind uplift as soon as practicable.

### 820 LAYING STONE BALLAST

- **Gravel guards:** Fit to outlets.
- **Condition of substrate:** Clean.
- **Ballast:** Do not pile to excessive heights.
- **Previously laid materials:** Protect during spreading of ballast.
- **Application:** Spread evenly.
  - **Depth (minimum):** Dependant on wind lift calculation.

### 840 LAYING PRECAST CONCRETE PAVING SLABS

- **Condition of substrate:** Clean.
- **Setting out:** Minimise cutting.
- **Joints:** Open.
  - **Width:** \_\_\_\_\_.

## PERFORMANCE

### 210 ROOF PERFORMANCE

- General: Secure, free draining and completely weather tight.

### 230 INSULATION

- **Requirement:** Determine type and thickness of insulation and integral or separate overlay to satisfy the following criteria:
  - **Thermal transmittance of the roof (maximum):** \_\_\_\_\_ W/m<sup>2</sup>K.
  - **Compressive strength of insulation (minimum) at 10% compression:** \_\_\_\_\_ kPa.
  - **Finished surface:** Suitably even, stable and robust to receive the covering.
  - **Insulation compliance:** To a relevant British Standard, or Agrément certified.

## PRODUCTS

### 420 ROOF INSULATION

- **Material:** \_\_\_\_\_.
- **Manufacturer:** Purlcrete Chevron/Purlcrete Promenade
- **Product reference:**
- **Density:** \_\_\_\_\_ kg/m<sup>3</sup>.
- **Thickness:** Dependant on specification
- **Facing:** Dependant on system

### 460 STONE BALLAST

- **Type:** Washed, round aggregate.
- **Size:** Graded 15 - 25 mm, free from fines and sharps.

### 465 PRECAST CONCRETE PAVING SLABS

- **Precast concrete:** To BS 7263-1 hydraulically pressed.
- **Manufacturer:** \_\_\_\_\_.
- **Product reference:** \_\_\_\_\_.
- **Colour/ Finish:** \_\_\_\_\_.
- **Size:** \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ mm.
- **Support system:** \_\_\_\_\_.

## EXECUTION GENERALLY

### 510 ADVERSE WEATHER

- **Laying:** Do not lay membrane in wet or damp conditions or at temperatures below 5°C.
- **Unfinished areas of roof:** Keep dry where possible.
- **Work in severe or continuously wet weather:** Suspend or provide effective temporary cover over working area.
- **Unavoidable wetting:** Minimise and make good any damage.
- **Incomplete areas of membrane:** Protect from wind action.

### 520 INCOMPLETE WORK

- **End of working day:** Provide temporary seal to prevent water infiltration.
- **On resumption of work:** Cut away tail of membrane from completed area and remove from roof.

### Existing Bituminous Roof Coverings

Suitable bituminous substrates must be clean, smooth and free of oil and grease and sharp protrusions, all loose roof covering must be removed prior to the installation of Hertalan. Hertalan *must never be applied in direct contact with a substrate containing low melting point tar or bitumen, in these cases a separating layer of Hertalan easy.tex must first be installed to receive the Hertalan..*

#### - **Roof covering:**

- Manufacturer: Hertalan (UK) Ltd. Units E6 & E7, Lowmoor Road, Kirkby-in-Ashfield. Nottinghamshire. NG17 7DE. Tel: 01623 721500. Fax: 01623 721700. Email: [sales@hertalan.co.uk](mailto:sales@hertalan.co.uk) Web: [www.hertalan.co.uk](http://www.hertalan.co.uk)

- **Lower protective layer (loose laid):** If required Hertalan easy.tex

- **Vapour control layer:** Not Applicable

- **Insulation:** Not Applicable

- **Separating layer (loose laid):** Not Applicable

- **Waterproof membrane:** Hertalan EPDM Roofing System.

**Thickness:** 1.2 / 1.5 / 2.0 mm

**Colour:** Black

**Attachment:**

Loose laid and ballasted as clause 820.

- **Upper protective layer (loose laid):** Not Applicable

- **Surface protection:** Stone ballast as clause 820 Paving slabs as clause 840, dependant on system used.

#### - **Accessories:**

- Hertalan KS137 - contact adhesive
- Hertalan KS87 - lap sealant
- Hertalan KS96 - moisture curing adhesive sealant
- Hertalan KS2000 - acrylic based instant adhesive
- Hertalan roof outlets - Diameters: 40/50/63/75/90/110/125/140 & 160mm
- Hertalan preformed vent sleeves
- Hertalan prefabricated internal, external and skylight corners
- Hertalan Flashing
- Hertaled, the alternative to lead
- Hertalan easy.weld / Flash.Weld
- Hertalan easy.stick - self adhesive EPDM
- Hertalan easy.tex - 300gm m2 geotextile protective fleece
- Hertalan easy.wipes - cleaning wipes for the removal of Hertalan adhesives
- Edge trims as clause 765

## **J42 SINGLE LAYER POLYMERIC SHEET ROOF COVERINGS**

To be read with Preliminaries / General Conditions.

### **TYPE OF COVERING: LOOSE LAID WITH BALLAST**

#### **120 INVERTED ROOF COVERING**

Hertalan (UK) Ltd EPDM single ply roofing membrane systems are designed for use on all types of roof and can be loose laid and ballasted or fully/partially adhered. Hertalan can also supply a secret mechanical fixing system using specially designed flaps of EPDM hot welded to the membrane, with the spacing of the flaps and the number of fixings required calculated by the Hertalan technical department depending on the type of roof construction, local wind conditions, roof area and shape. The roofing system is manufactured to combat ageing and is designed to be unaffected by ozone, UV radiation and strong sunlight. The membrane is 100% root resistant. Installation is only carried out by operatives trained and approved by Hertalan (UK). Consult with Hertalan (UK) for a list of approved contractors. The manufacturer offers a 20year guarantee on all materials.

Hertalan loose laid and fully adhered EPDM roofing systems have been awarded the British Board of Agrément Certificate No 91/2728/C.

**Dimensions:** Prefabricated custom-made formats in any dimension up to 2000m<sup>2</sup> in one piece.

- **Substrate:**

Timber board deck  
Plywood deck  
Oriented strand board deck  
Wood wool slab deck  
Aerated concrete slab deck

- **Preparation:**

The structure of the substrate to receive Hertalan must be in full accordance with current building regulations and practice.

Concrete

All concrete substrates should be sufficiently hardened and cured, the surface should be smooth, clean, dry and free from oil and grease, all other surfaces to receive Hertalan should also meet this criteria.

Timber Surfaces

All timber materials should be fixed in full accordance with the manufacturer's recommendations and must be clean, dry and free from oil, grease and preservatives must be fully cured/ dry. There must not be any height differences in the roof sheets and all fixings must be countersunk, all joints should be installed taking expansion into consideration.