

**J21 MASTIC ASPHALT ROOFING/FINISHES**  
**GUARAFLEX R POLYMER MODIFIED ASPHALT SYSTEM**

**PRODUCTS**

**310a OUTLETS**

Types: Guaranteed rainwater outlets. Refer to Guaranteed Asphalt Technical Services (tel no: 020-7732-7781) for type to suit location, bore to be specified. Outlets to be generally fixed at maximum 15m centres.

**320a PRIMER**

Type: For flat decks - fully bonded upstands and slopes over approximately 10° and all metal surfaces in contact with the Guaraflex System.

**Manufacturer:** Guaranteed Asphalt Limited (as above).

Product reference: Guaranteed Bitumen Primer - brush, roller or spray applied at the rate of 6-8m<sup>2</sup> per litre and allowed to dry for minimum 24 hours.  
Guaranteed High Bond Primer - where 24 hours drying time is not practicable.

**330 TIMBER FOR TRIMS ETC**

Quality: Planed. Free from wane, pitch pockets, decay and insect attack (except ambrosia beetle damage).

Moisture content at time of covering maximum: 22%

Preservative Treatment: As recommended by mastic asphalt manufacturer.

**345 EDGE TRIMS**

Type: GRP

**Manufacturer:** Guaranteed Asphalt Limited

Product reference: Asphalt section GRP edge trim.

Colour: Consult with Guaranteed Asphalt for recommendations and details.

Length (maximum): 3m

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**380 MOVEMENT JOINTS**

**Manufacturer:** Universal Sealants (UK) Ltd, Kingston House, 3 Walton Road,  
Pattinson North, District 15, Washington, Tyne and Wear, NE38 8QA.  
Tel no: 0191-416-1530

Product reference: Consult with chosen manufacturer for recommendations and details.

Size: \_\_\_\_\_

Colour: \_\_\_\_\_

Radflex Contract Services, Unit 35 Wilks Avenue, Dartford Trade  
Park, Dartford, Kent DA1 1JS.  
Tel no: 01322-276363

**395a VAPOUR CONTROL LAYER**

Type: Bitumen sheet, aluminium face.

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Guarafelt CP membrane. Consult with Guaranteed Asphalt for  
recommendations and details.

First layer: Guarafelt 2mm CP aluminium faced polymer modified bitumen  
membrane.

Second layer: Not required.

**395b VAPOUR CONTROL LAYER (METAL DECKS)**

Type: Bitumen Sheet, aluminium face.

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Guarafelt CP super membrane. Consult with Guaranteed Asphalt for  
recommendations and details.

First layer: Guarafelt 4mm CP super aluminium faced polymer modified bitumen  
membrane.

Second layer: Not required.

**420a RIGID POLYISOCYANURATE FOAM (PIR) ROOF BOARD WARM ROOF INSULATION**

Material: Rigid polyisocyanurate foam insulation board to BS 4841-3.

**Manufacturer:** Guaranteed Asphalt Limited

Product reference: Guaranteed PIR board.

Thickness: Consult with Guaranteed Asphalt Technical Services for advice on  
specific projects. The board thickness will depend on the u-value  
requirements.

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**420b RIGID POLYISOCYANURATE FOAM (PIR) ROOF BOARD WARM ROOF INSULATION**

Material: Rigid polyisocyanurate foam insulation board to BS 4841-3.

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Guaranteed PIR tapered board.  
Thickness: Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the u-value requirements.

**430a WARM ROOF INSULATION**

Material: Cork/PU composite insulation board.

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Guaranteed cork/PU composite board.  
Thickness: Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the u-value requirements.

**430b WARM ROOF INSULATION**

Material: Cork/PU composite insulation board.

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Guaranteed cork/PU composite tapered board.  
Thickness: Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the u-value requirements.

**430c WARM ROOF INSULATION**

Material: Cellular glass insulation board (ReadyBoard Type S3)

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Guaranteed cellular glass insulation board.  
Thickness: Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the u-value requirements. The board type will be dependant on the compressive strength requirements.

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**430d WARM ROOF INSULATION**

Material: Cellular glass insulation board (ReadyBoard Type T4)

Manufacturer: Guaranteed Asphalt Limited  
Product reference: Guaranteed tapered cellular glass insulation board.  
Thickness: Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the u-value requirements.

**430e WARM ROOF INSULATION**

Material: Expanded perlite insulation board.

Manufacturer: Guaranteed Asphalt Limited  
Product reference: Guaranteed expanded perlite insulation board.  
Thickness: Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the u-value requirements. The board type will be dependant on the compressive strength requirements.

**430e(1) PROTECTION FOR INSULATION ON INSULATED VEHICLE DECKS (DRY SYSTEM)**

Material: Guarascreed design mix polymer modified asphalt concrete.

Minimum 55mm thickness where falls are provided in the substrate. Where falls are not provided in the substrate but are required, minimum thickness 55mm, maximum thickness as required to provide falls of 1 in 100.

**440a EXTRUDED POLYSTYRENE INVERTED ROOF INSULATION/PROTECTION**

Material: Extruded polystyrene board (to BS EN 13164).

Manufacturer: Guaranteed Asphalt Limited  
Product reference: Guaranteed extruded polystyrene board.  
Grade - roofing/  
vehicle decks: Consult with Guaranteed Asphalt Technical Services for advice on specific projects.  
Edges: Consult with Guaranteed Asphalt Technical Services for advice on specific projects.  
Integral topping: Consult with Guaranteed Asphalt Technical Services for advice on specific projects.  
Thickness: Consult Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness will depend on the type and u-value requirements.

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**440a(1) PROTECTION FOR INSULATION ON INSULATED VEHICLE DECKS/ROOF GARDENS  
(WET SYSTEM)**

Product: Lytag concrete or similar - minimum grade 20.  
Laying: Minimum 100mm thick, with A142 mesh to engineers design over insulation.

**440a(2) PROTECTION FOR WATERPROOFING**

Product: Minimum 50mm cementitious screed.  
Laying: Flat or to falls, to engineers design.

**440b FILTER MEMBRANE**

Product: Guaranteed Geotextile non-woven fleece.  
Laying: Loose over horizontal asphalt, 150mm laps turning 100mm up abutments.

**440c PERMEABLE MEMBRANE**

Product: Guaranteed water resistant vapour permeable membrane.  
Laying: Loose over insulation, 300mm laps sealed using Guaranteed lap seal adhesive.

**460a STONE BALLAST**

Type: Washed, no fines. Grade 20 to 40mm.  
Laying: Thickness 50mm, laid loose over membrane.

**465 PRECAST CONCRETE PAVING SLABS**

Precast concrete: To BS 7263-1 hydraulically pressed.

**Manufacturer:** Guaranteed Asphalt Limited  
Product reference: Consult with Guaranteed Asphalt for recommendations and details.  
Colour/Finish: Consult with Guaranteed Asphalt for recommendations and details.  
Size: Consult with Guaranteed Asphalt for recommendations and details.

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**465a TIMBER DECKING (SUBSTRATE TO FALLS)**

600 x 600 x 50mm hydraulically pressed paving slabs, nominal 1800mm centres, laying loose over permeable membrane. Timber bearers plugged and screwed to slabs with non-ferrous screws.

**465b TIMBER DECKING (SUBSTRATE FLAT WITHOUT FALLS)**

600 x 600 x 50mm hydraulically pressed paving slabs, nominal 900mm centres, laying loose over permeable membrane, in-filled with ballast (460a) around slabs. Timber bearers plugged and screwed to slabs with non-ferrous screws.

**470a SURFACE PROTECTION  
PAVING TILES**

Type: Porous concrete.

**Manufacturer:** Guaranteed Asphalt Limited  
**Product reference:** Guaranteed porous concrete tiles.  
**Colour/finish:** Consult with Guaranteed Asphalt for recommendations and details.  
**Size:** Consult with Guaranteed Asphalt for recommendations and details.

**495 SURFACE PROTECTION  
SOLAR REFLECTIVE PAINT**

**Manufacturer:** Guaranteed Asphalt Limited  
**Product reference:** Guaranteed solar reflective paint.

**EXECUTION GENERALLY**

**510 ADVERSE WEATHER**

Unfinished areas of the roof: Keep dry.

Work in severe or continuously wet weather: Suspend or provide and maintain effective temporary cover over the working area.

Unavoidable wettings: Minimise and make good damage.

**520 INCOMPLETE WORK**

Daywork joints in warm roof and edges of phased roofing: Adequately protect and fully weathertight.

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**530 APPLYING PRIMERS**

Application: To upstands and slopes over approximately 10°, and pipes etc.  
Surface coverage: Even and full.  
Coats: Fully bonded. Allow volatiles to dry off thoroughly between coats.

**545 APPLYING SOLAR REFLECTIVE PAINTS**

Application: To exposed asphalt.  
Surface coverage: Even and full.

**610a PREPARATION  
SUITABILITY OF SUBSTRATES**

Generally:

- Secure, even textured, clean and dry and free from frost.
- Horizontal surfaces: To even falls/flat within tolerances.

Preliminary work: Complete - including:

- Formation of upstands and kerbs
- Penetrations/outlets
- Chases (not less than 10 x 25mm)
- External angles - chamfered where required to maintain full thickness.

Moisture content and stability:

- Must not impair integrity of roof.

**610b PREPARATION**

Sweep clean and remove all standing water. Make good as necessary to provide a base free from ridges, hollows and indentations.

**610b(1)** Sweep clean and remove all standing water. Make good as necessary to provide a clean base free from ridges, hollows and indentations, dried ready to receive primer.

**610c GUARASCREED (WARM ROOFS)**

Polymer modified design mix mastic asphalt screed, nominal 1:80 fall.

Screed thickness: Minimum - nil  
Maximum - as required

Laying: One or more layers on Guarafelt separating/bonding layer.

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**610d GUARASCREED FOR INVERTED ROOFS**

Polymer modified design mix mastic asphalt screed, nominal 1:100 fall.

Screed thickness: Minimum - nil.  
Maximum - as required.

Laying: One or more layers on Guarafelt separating/bonding layer.

**610d(1) GUARASCREED FOR CAR PARK DECKS/PODIUMS - COLD ROOF DECKS**

Polymer modified design mix mastic asphalt screed, nominal 1:100 fall.

Screed thickness: Minimum - nil.  
Maximum - as required.

Laying: One or more layers, over Guaraflex R asphalt waterproofing.

**610e GUARASCREED SURFACE PROTECTION FOR COLD ROOFS, NO INSULATION, FLAT**

Screed thickness: Nominal 25mm thickness.

Laying: Single layer over asphalt waterproofing.

**610f SURFACE PROTECTION FOR COLD ROOFS WHERE FALLS OR ADDITIONAL FALLS ARE REQUIRED**

Screed thickness: Laid to falls. Minimum 25mm thickness, maximum as required.

Laying: One or more layers over asphalt waterproofing.

**620a REMOVE EXISTING COVERING (ANY TYPE)**

Remove all existing coverings down to concrete/screed/timber base or metal decking. Brush off and make good as necessary to provide a clean, dry base free from ridges, hollows and indentations.

Note: Prior to commencement of the works, core samples should be taken to ensure the existing concrete/screed/timber or metal deck is suitable for re-use.

Consult Guaranteed Asphalt for recommendations and details.

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**630a PREPARATION  
OVERLAY EXISTING COVERINGS**

Cut out and make good all defects in existing covering. Remove all existing coverings to upstands, kerbs and the like. Prepare surfaces to receive new. Brush off and make good as necessary to provide a base free from ridges, hollows and indentations.

Note: Consult with Guaranteed Asphalt for suitability of existing installation for overlay.

**640 INSTALLING TIMBER FOR TRIMS**

Fasteners: Sheradized steel screws.  
Fixing centres (maximum): 600mm

**660a PREPARATION JOINTS IN PLYWOOD SUBSTRATES**

Cover Strip: Lay centrally over substrate joints before laying vapour control layers or coverings. Adhere to substrate with bonding compound, along edges only.

**660b PREPARATION FOR HIGH STRESS AREAS - HEAVY GOODS VEHICULAR ACCESS -  
CONCRETE DECKS**

Guaralath: 1-2mm thick expanded metal sheet, drilled and plugged to concrete over separating layer at 150mm centres.

**670a LAYING VAPOUR CONTROL LAYER**

Attachment: Partial bonding.  
Appearance on completion: Flat with no wrinkles.

Laps: (100mm) Seal using method recommended by Guaranteed Asphalt Limited.

Upstands/kerbs and other penetrations: Enclose edges of insulation. Fully seal at abutment by bonding or taping.

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**680a INSTALLING WARM ROOF INSULATION**

Setting out:

- Long edges: Fully support and run at right angles to structure.
- End edges: Adequately support.
- Joints: Butt together.
- End joints: Stagger
- Bedding: Partial bond to ensure adequate restraint with suitable bonding compound.

Mechanical fixing/  
bonding:

Consult with Guaranteed Asphalt for recommendations and details.

Completion:

Boards must be in good condition, well fitting with no substantial springing, flexing or rocking.

**SEPARATING LAYER**

**695a** Guarafelt CP super, 4mm thick aluminium faced polymer modified bitumen membrane.

Laying: Loose with 100mm sealed laps.

**695b** Guarafelt CP, 2mm thick aluminium faced polymer modified bitumen membrane.

Laying: Loose with 100mm sealed laps.

**695c** Guarafelt CP, 2mm thick aluminium faced polymer modified bitumen membrane.

Laying: Torch bonding to base with 100mm laps.

**695d** Guarafelt CP super, 4mm thick aluminium faced polymer modified bitumen membrane.

Laying: Torch bonding to base with 100mm laps.

**695e** Guaraglas bitumen impregnated tissue, loose laid over primed concrete base.

**695f** Guaranteed Perlite overlay board, 13mm thick, one face bitumen coated.

Laying: Loose or spot bonded over existing coverings, close butt jointed, bitumen face uppermost.

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**ASPHALTING**

**710 DELIVERY**

Condition of mastic asphalt as delivered to site: Hot-prepared, do not remelt on site.

OR

**720 DELIVERY**

Condition of mastic asphalt delivered to site:

- Hot prepared, do not remelt on site or
- Blocks - remelt on site. Temperature of material not to exceed 230°C.

**730 TRANSPORTING**

Transport distances: Minimize to avoid excessive cooling of molten mastic asphalt.

Buckets, barrows or dumpers used for mastic asphalt: Line with minimum quantity of fine inert dust. Use silica or similar acid resisting dust where acid resisting mastic asphalt is being used.

**735 LOCALIZED HEATING**

Blowlamps and gas torches: Use only types with controlled gradual heating during laying, removal and repair of mastic asphalt.

**740 APPLICATION**

Laying mastic asphalt: Standard to BS 8218.

**Mastic asphalt coats:**

- Apply in bays to even thickness. Do not use re-heated asphalt.
- Full thickness: Maintain around external angles, at junctions and tuck ins.
- Fillets at internal angles: Solid in tow layers, fully fused to asphalt coating.
- Previously laid coats: Protect whilst exposed.
- Successive coats:  
Apply without delay and within same working period.  
Stagger joints between bays in consecutive coats (minimum): 75mm.
- Finish: Even surface, smooth and free from imperfections.
- Completion: During final floating operation, whilst asphalt is still warm, apply sand to horizontal surfaces and rub-in well using wooden float.

**Blowing:**

- Pierce and make good affected areas while mastic asphalt is still at working temperatures.
- Condition of contact edges of previously laid bays: Warm and clean.
- Condition on completion: Fully sealed, waterproof and free draining.

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**740a APPLICATION (NEW BUILD/REFURBISHMENT) OVER GUARASCREED**

Laying: Guaraflex R mastic asphalt.  
Nominal 20mm thickness, laying over Guarascreed.

Surface finish: Sand rubbed.

**740b APPLICATION (NEW BUILD/REFURBISHMENT) OVER SCREEDS OTHER THAN GUARASCREED**

Laying: Guaraflex R mastic asphalt.  
Nominal 20mm thickness in 2 layers on and including Guarafelt separating layer.

Surface finish: Sand rubbed.

**740c APPLICATION (NEW BUILD/REFURBISHMENT) TO FLAT DECKS WITH NO FALLS**

Laying: Guaraflex R mastic asphalt.  
Nominal 25mm thickness in two layers on and including Guarafelt separating layer.

Surface finish: Sand rubbed.

**740d APPLICATION (NEW BUILD/REFURBISHMENT) OVER INSITU CONCRETE/CONCRETE FLAT/TO FALLS/SCREEDED DECK TO FALLS/RAMPS**

Laying: Guaraflex R mastic asphalt waterproofing, in one layer on Guarafelt separating layer/bonding layer or Guarascreed.

Surface finish: Sand rubbed.

**PAVING/PROTECTION LAYERS**

**740e APPLICATION (NEW BUILD/REFURBISHMENT) PAVING PROTECTION LAYER**

Laying: Guaraflex R mastic asphalt, nominal 15mm thickness with 15-20% additional coarse aggregate over Guaraflex R asphalt waterproofing.

Preparation: Sweep clean and dry new asphalt waterproofing.

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**740f APPLICATION (NEW BUILD/REFURBISHMENT) STANDARD PAVING/PROTECTION LAYER/WEARING COURSE**

Laying: Guaraflex PP mastic asphalt over Guarafelt separating layer waterproofing or Guarascreed/asphalt or concrete.

Surface finishes: Sand rubbed, smooth finish, crimped with indenting roller, pre-coated chippings rolled in at the rate of 7-10 kilos per m<sup>2</sup>, nominal size 14 or 20mm.

**740g APPLICATION (NEW BUILD/REFURBISHMENT) HARDGRADE PAVING/PROTECTION LAYER/WEARING COURSE**

Laying: Guaraflex PPH mastic asphalt over Guarafelt separating layer waterproofing or Guarascreed/asphalt or concrete.

Surface finishes: Sand rubbed, smooth finish, crimped with indenting roller, pre-coated chippings rolled in at the rate of 7-10 kilos per m<sup>2</sup>, nominal size 14 or 20mm.

**750a UPSTANDS**

Installing: Flexible upstands, coverings to kerbs and the like.

Setting out: Neatly with carefully formed junctions.

Application: First layer  
Guaraflex U underlay torch bonded to primed base, terminating 150mm above horizontal finishes or continued over the top of the upstand. Torch bonding 100mm onto Guarafelt CP/CP Super at the base prior to laying horizontal asphalt. 100mm wide vertical and horizontal laps.

Second layer  
Guaraflex T torch bonded to Guaraflex underlay with 100mm vertical and horizontal laps, terminating 150mm above horizontal finishes or continued over the top of the upstand.

**750b TERMINATION**

- To brick, block, concrete walls.
- Non ferrous metal cover flashing wedged into 10 x 25mm deep chase, pointed with a suitable mastic on completion.
- Dressing minimum 50mm over upstand detail.

**750b(1) ANGLE FILLET**

2 coat internal angle fillet, nominal 45mm on face to all concrete brick or block work walls and abutments.

Preparation: As clause 320a.

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**750c INSULATED UPSTANDS**

<b>750c(1)</b> <u>Material (Warm Roof):</u>	Guaranteed plywood faced composite board.
<u>Material (Inverted Roof):</u>	Guaranteed Extruded Polystyrene Board.
<u>Manufacturer:</u>	Guaranteed Asphalt Limited.
<u>Product reference (Warm Roof):</u>	Guaranteed Guaratherm composite board.
<u>Product reference (Inverted Roof):</u>	Guaraboard extruded polystyrene.
<u>Thickness:</u>	Consult with Guaranteed Asphalt Technical Services for advice on specific projects. The board thickness and type will depend on the u-value requirements.

**750c(2) FIXING INSULATED UPSTANDS (INVERTED ROOFS OR WARM ROOFS)**

<b>750c(2)1</b>	<u>Type (Inverted Roof):</u>	Guaranteed extruded polystyrene board, spot bonded with low modulus mastic adhesive over Guaraflex T.
<b>750c(2)2</b>	<u>Type (Warm Roof):</u>	Guaratherm composite board, bonded or mechanically fixed to vapour barrier.

**750c(3) PROTECTION (INVERTED ROOFS)**

0.9mm galvanised or milled aluminium sheet, once bent 75mm leg at the base.

**750c(3)1 FIXING (INVERTED ROOFS)**

Free standing against vertical insulation with 75mm leg onto permeable membrane, secured at the base with 20-40mm ballast or paving slab.

**750c(4) COVER APRON (INVERTED ROOFS)**

0.9mm thick galvanised or milled aluminium sheet, three times bent, two irregular angles, one welted edge, 100mm laps.

**750c(4)1 FIXING**

Wedging into 10 x 25mm deep chase, pointing with high modulus one part polysulphide mastic. Dressing 50mm over metal upstand protection, securing with secret clips into welted edge. Clips fixed to upstand with self tapping screws.

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**750(5) WATERPROOFING FOR INSULATED UPSTANDS (WARM OR INVERTED ROOFS)**

Installing: Flexible upstands, coverings to kerbs and the like.

Setting out: Neatly with carefully formed junctions.

Application: First layer  
Guaraflex U underlay, torch bonded to primed base, terminating 150mm above horizontal finishes or continued over the top of the upstand. Torch bonding 100mm onto Guarafelt CP/CP Super at the base prior to laying horizontal asphalt. 100mm wide vertical and horizontal laps.

Second layer  
Guaraflex U self finish for inverted roofs and Guaraflex T for warm roofs, torch bonded to Guaraflex underlay with 100mm vertical and horizontal laps, terminating 150mm above horizontal finishes or continued over the top of the upstand.

**750d GUARAFLEX R ASPHALT UPSTANDS (OPTIONAL)**

**750d(1) UPSTANDS/DRIP APRONS/COLLARS TO PIPES AND THE LIKE (NOT EXCEEDING 300MM HIGH)**

13mm thick, 2 coat Guaraflex R on primed brick or concrete upstands, angle fillet at base, tuck into chase at top/fair edge at top.

Surface Protection: Guaranteed solar reflective paint as clause 495 and 545 to exposed asphalt.

**750d(2) UPSTANDS/DRIP APRONS/COLLARS TO PIPES AND THE LIKE (VERTICAL EXCEEDING 300MM HIGH)**

20mm thick, 3 coat Guaraflex R on primed brick or concrete upstands, angle fillet at base, tuck into chase at top/fair edge at top.

Surface Protection: Guaranteed solar reflective paint as clause 495 and 545 to exposed asphalt.

**750d(3) UPSTANDS/DRIP APRONS (VERTICAL ANY HEIGHT) OVER AERATED CONCRETE/LIGHTWEIGHT BLOCKS AND THE LIKE/TIMBER**

20mm thick 3 coat Guaraflex R on expanded metal lathing on Guarafelt sheathing on upstands, angle fillet at base, tuck into chase at top/fair edge at top.

Surface Protection: Guaranteed solar reflective paint as clause 495 and 545 to exposed asphalt.

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**770 INSTALLING MOVEMENT JOINTS**

<u>Location:</u>	Centre over structural movement joint, and bed to exact finished level.
<u>Joint width:</u>	Consult with Guaranteed Asphalt for recommendations and details.
<u>Bedding:</u>	Epoxy mortar.
<u>Fixing:</u>	Consult with Guaranteed Asphalt for recommendations and details.
<u>Separating Layer:</u>	Dress onto horizontal surface of edgings, either side of joint.
<u>Joints:</u>	Prepare and apply sealant as section Z22.
<u>Sealant:</u>	Consult with Guaranteed Asphalt for recommendations and details.
<u>Size:</u>	_____
<u>Colour:</u>	_____

**785a INSTALLING EDGE TRIMS**

**Separating layer:** Guarafelt CP/CP Super carried under the trim to reinforce the joint.

**Trim:**

- Clear distance from wall or fascia: 3mm (minimum).
- Fasteners: Countersunk wood screws to BS 1210.
- Type: Consult with Guaranteed Asphalt for recommendations and details.
- Spacing: 30mm from ends of trims and 300mm (maximum) centres.
- Jointing sleeves: Fix one side only.
- Expansion gap between ends of trim: Consult with Guaranteed Asphalt for recommendations and details.
- Corners: Use purpose made corner pieces.

**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.

Protections, upstands, rainwater outlets etc: Cut insulation cleanly and fit closely around.

Completion: Boards to be in good condition, with no springing or rocking. Cover to prevent wind uplift as soon as possible.

**860a LAYING PAVING TILES**

Condition of substrate: Clean and dry.

Setting out: Minimise cutting.

Bedding: Consult with Guaranteed Asphalt for bedding recommendations and separating layers for cementitious beds.

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**Joints:** Open.

- Width generally: 3mm.
- Expansion gap intervals: 3m, nominal 25mm wide.
- Perimeter/Upstands: Stop tiles on line of Guaraflex T.

**COMPLETION**

**910 INSPECTION**

Interim and final roof inspections: Submit reports.

**940 COMPLETION**

- Roof areas: Clean.
- Outlets: Clear.

Works necessary to provide a weathertight finish: Complete.

Storage of materials on finished surface: Not permitted.

Completed mastic asphalt: Do not damage. Protect from petroleum based solvents and other chemicals, traffic and adjacent or high level working.

**940a GUARANTEES**

This specification is covered by the manufacturers dual signature guarantee for workmanship and materials for a period of twenty years, subject to terms and conditions.

**940b**

This specification and guarantee can be insurance backed, subject to the terms and conditions of the Insurers, and secured by a one off premium directly in accordance with the current requirements of the Financial Services Authority (FSA).