

PROPOSAL SPECIFICATION

BAY HOUSE SCHOOL PHASE 2

BY SOPREMA

PROJECT NAME

Bay House School – Phase 2

SPECIFICATION REFERENCE

SOP SPB 121120 PB 0947

Paul Booth

Technical Sales Manager – 07921 473909

pbooth@soprema.co.uk

SITE CONTACT ADDRESS

Gomer Ln, Gosport PO12 2QP

MAIN CONTRACTOR

TBC

SOPREMA APPROVED INSTALLER

TBC

ISSUE DATE

12/11/2020

ROOF AREAS

NAME	MAIN ROOF	ROOF	ROOF
SUBSTRATE	Existing	-	-
AREA M ²	TBC	-	-

This proposal specification has been prepared with limited information. Consultation with the Soprema Technical Department is necessary prior to commencement of works.

BAY HOUSE SCHOOL PHASE 2

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SPECIFICATION SUMMARY

	ROOF 1 & 5	ROOF 4	ROOF 2 & 3
SUBSTRATE PREPARATION	Existing	Existing	Existing
ACOUSTIC INFILL	-	-	-
PRIMER	Sopradere Quick	Elastocol 600	Sopradere Quick
VAPOUR CONTROL LAYER	Alu Activa 2	Sopravap Alu S16	Alu Activa 2
INSULATION	Sopratherm CTF	Sopratherm 120mm	Sopratherm 80mm / 120mm
UNDERLAYER	Ventirock 3	Ventirock	Ventirock
CAPSHEET	Sopralene 180 AF	Sopralene 180 AF	Sopralene 180 AF
DETAILING MEMBRANES	Sopralene Flam 180TF TA Underlay Sopralene 180 AF	Sopralene Flam 180TF TA Underlay Sopralene 180 AF	Sopralene Flam 180TF TA Underlay Sopralene 180 AF
ADDITIONAL FINISHES	Sopralight Trade Range	Sopralight Trade Range	Sopralight Trade Range
RAIN WATER OUTLETS	-	-	-
FLAME- FREE LIQUID DETAILING OPTION	Alsan Quadro	Alsan Quadro	Alsan Quadro

SYSTEM OFFER

BAY HOUSE SCHOOL PHASE 2

APPROVED CONTRACTOR INSTALLATION

APPROVED INSTALLERS: Approved contractors are closely evaluated and trained before being authorised to install SOPREMA products. Close partnerships are maintained to ensure the highest standards are maintained.

SITE SUPPORT & PROJECT SIGN OFF




TECHNICAL EXPERTISE: Outstanding technical support is available from our experienced team; from design stage and bespoke specifications through to on site support and project sign off. As a part of our commitment to technical support throughout the project, the SOPREMA Technical Team will monitor the project installation and provide regular installation reports on the progress of the works. Prior to the issue of warranty and Final Inspection will be completed.

INSURANCE BACKED WARRANTY

A 20 YEAR SINGLE POINT SOPRACOVER WARRANTY is proposed for this project, subject to the works being completed by the SOPREMA Approved Contractor, installed to this specification and signed off by the SOPREMA Technical Department.

SOPREMA manufacture and specify the complete waterproofing and insulation system, meaning that a true single point warranty can be achieved. This differentiates the Soprema offer and provides the client with a market-leading solution from one source. The warranty Soprema offers on their inverted flat roofing waterproofing and insulation systems is up to 40 years, independently insurance backed, and is the most competitive on the market in terms of cost effectiveness vs. performance.

With extensive independent accreditation and certification including BBA, FM, WRAS, ISO 9001 and ISO 14001, in addition to an industry leading warranty offer, SOPREMA guarantee peace of mind for your project.

 <p>0 1</p>	<p>SPECIFICATIONS</p> <ul style="list-style-type: none"> Bespoke project specifications CAD details RIBA NBS specification 	 <p>0 3</p>
<p>SURVEYS & SITE SUPPORT</p> <ul style="list-style-type: none"> Condition reports Site inspections Warranty sign-off 	 <p>0 2</p>	<p>SINGLE POINT WARRANTY</p> <ul style="list-style-type: none"> Market leading warranties Hybrid systems included Insurance backed



J41 SPECIFICATION

BAY HOUSE SCHOOL PHASE 2

J41 REINFORCED BITUMEN MEMBRANE ROOF COVERINGS

110 BUILT-UP REINFORCED BITUMEN MEMBRANE WARM DECK ROOF COVERING _____ ROOF 1

- Substrate: Existing
 - Preparation: Remove existing coverings to the screed by suitable means in accordance with 620 and 625
 - Preparation: Dry, clean and free from all contaminants, laitance, fines and protrusions. Surface to be primed with **Soprema Sopradere Bitumen Primer** to manufacturers' recommendations and clause 320, 530 & 610
- Air and Vapour control layer: **Sopravap ALU Activia 2** torch applied modified bitumen membrane with an aluminium composite reinforcement
 - Torch applied to primed substrate in accordance with 670
- Insulation: **Sopratherm CTF** rigid urethane foam (PIR) insulation board.
 - Minimum thickness mm to achieve U-value of 0.18W/m²K, in accordance with BS EN ISO 6946
 - Attachment: by torching upper face of **Sopravap Alu Activa Flam 2** in accordance with clause 680
- Waterproof covering:
 - System manufacturer: Manufacturer: **Soprema UK Limited, Soprema House , Freebournes Rd , Whitham ,Essex CM8 3UN**
T.+44(0) 330 058 0668 , F.+44(0) 8451 948 728
Contact – (Paul Booth 07921 473 909 pbooth@soprema.co.uk)
- Combined Venting and underlayer: **Soprema Ventirock SBS 3 TF** 3.0mm SBS polyester reinforced torch applied venting underlayer.
Attachment: Torch applied on field area only
- Top layer/ Capsheet: **Sopralene Flam 180 AF** 3.5mm SBS polyester reinforced Capsheet
Colour: Black Slate
Attachment: Torch applied
- Standard Flashings and detail work: **Sopralene Flam 180 TF and Sopralene Flam 180 AF**
- Complicated Flashings and detail work: **Soprema Alsan Flashing** liquid applied system should be used
- Surface protection: All Soprema Capsheet membranes are entirely self-protected. However, additional ballast, paving and/or tiling surfacing can be considered as clauses 460, 465, 470, 810, 820, 840 and 860.
- Accessories: Soprema Depco outlets, Soprema Granules, Soprema Pipe Collars, Leaf Grates, Lightning Conductor Pads and Paving Supports all as required to satisfy Soprema Warranty requirement.

110 BUILT-UP REINFORCED BITUMEN MEMBRANE WARM DECK ROOF COVERING _____ ROOF 2

- Substrate: Existing – Overlay
 - Preparation: Inspect existing area to ensure substrate is sound and insulation is firm. Core samples should be performed to ascertain existing build-up and depth of insulation. The existing surface should be thoroughly cleaned and left dry, clean and free from all contaminants, laitance, fines and protrusions. Condensation risk analysis must be carried out to confirm insulation thickness and type. Surface to be primed with **Soprema Sopradere Bitumen Primer** to manufacturers' recommendations and clause 320, 530 & 610
- Air and Vapour control layer: **Sopravap ALU Activia 2** torch applied modified bitumen membrane with an aluminium composite reinforcement
 - Torch applied to primed substrate in accordance with 670
- Insulation: **Sopratherm T** rigid urethane foam (PIR) insulation board.
 - Minimum thickness 80mm to achieve U-value of $_W/m^2K$, in accordance with BS EN ISO 6946
 - Attachment: Fully bonded to vapour barrier with **Soprema Soprabond** polyurethane in accordance with clause
 - Combined Venting and underlayer: **Soprema Ventirock SBS 3 TF** 3.0mm SBS polyester reinforced torch applied venting underlayer.
Attachment: Torch applied on field area only
 - Top layer/ Capsheet: **Sopralene Flam 180 AF** 3.5mm SBS polyester reinforced Capsheet
Colour: Black Slate
Attachment: Torch applied
 - Standard Flashings and detail work: **Sopralene Flam 180 TF and Sopralene Flam 180 AF**
 - Complicated Flashings and detail work: **Soprema Alsan Flashing** liquid applied system should be used
- Surface protection: All Soprema Capsheet membranes are entirely self-protected. However, additional ballast, paving and/or tiling surfacing can be considered as clauses 460, 465, 470, 810, 820, 840 and 860.
- Accessories: Soprema Depco outlets, Soprema Granules, Soprema Pipe Collars, Leaf Grates, Lightning Conductor Pads and Paving Supports all as required to satisfy Soprema Warranty requirement.

110 BUILT-UP REINFORCED BITUMEN MEMBRANE WARM DECK ROOF COVERING _____ ROOF 3

- Substrate: Existing – Overlay
 - Preparation: Inspect existing area to ensure substrate is sound and insulation is firm. Core samples should be performed to ascertain existing build-up and depth of insulation. The existing surface should be thoroughly cleaned and left dry, clean and free from all contaminants, laitance, fines and protrusions. Condensation risk analysis must be carried out to confirm insulation thickness and type. Surface to be primed with **Soprema Sopradere Bitumen Primer** to manufacturers' recommendations and clause 320, 530 & 610
- Air and Vapour control layer: **Sopravap ALU Activia 2** torch applied modified bitumen membrane with an aluminium composite reinforcement
 - Torch applied to primed substrate in accordance with 670
- Insulation: **Sopratherm T** rigid urethane foam (PIR) insulation board.
 - Minimum thickness 120mm to achieve U-value of 0.18W/m²K, in accordance with BS EN ISO 6946
 - Attachment: Fully bonded to vapour barrier with **Soprema Soprabond** polyurethane in accordance with clause
 - Combined Venting and underlayer: **Soprema Ventirock SBS 3 TF** 3.0mm SBS polyester reinforced torch applied venting underlayer.
Attachment: Torch applied on field area only
 - Top layer/ Capsheet: **Sopralene Flam 180 AF** 3.5mm SBS polyester reinforced Capsheet
Colour: Black Slate
Attachment: Torch applied
 - Standard Flashings and detail work: **Sopralene Flam 180 TF and Sopralene Flam 180 AF**
 - Complicated Flashings and detail work: **Soprema Alsan Flashing** liquid applied system should be used
- Surface protection: All Soprema Capsheet membranes are entirely self-protected. However, additional ballast, paving and/or tiling surfacing can be considered as clauses 460, 465, 470, 810, 820, 840 and 860.
- Accessories: Soprema Depco outlets, Soprema Granules, Soprema Pipe Collars, Leaf Grates, Lightning Conductor Pads and Paving Supports all as required to satisfy Soprema Warranty requirement.

110 BUILT-UP REINFORCED BITUMEN MEMBRANE WARM DECK ROOF COVERING _____ **ROOF 4**

- Substrate: Existing
 - Preparation: Remove existing coverings to the timber by suitable means in accordance with 620 and 625
 - Preparation: Dry, clean and free from all contaminants, laitance, fines and protrusions. Surface to be primed with **Soprema Sopradere Bitumen Primer** to manufacturers' recommendations and clause 320, 530 & 610

- Air and Vapour control layer: **Sopravap Stick SI ALU S16** Self-adhesive modified bitumen membrane with an aluminium foil and non-woven polyester reinforcement as clause 220 & 395
 - Fully bonded to primed substrate in accordance with clause 670

- Insulation: **Sopratherm T** rigid urethane foam (PIR) insulation board.
 - Minimum thickness 120mm to achieve U-value of 0.18W/m²K, in accordance with BS EN ISO 6946
 - Attachment: Fully bonded to vapour barrier with **Soprema Soprabond** polyurethane in accordance with clause
 - Waterproof covering:
 - System manufacturer: Manufacturer: **Soprema UK Limited, Soprema House , Freebournes Rd , Whitham ,Essex CM8 3UN**
T.+44(0) 330 058 0668 , F.+44(0) 8451 948 728
Contact – (Paul Booth 07921 473 909 pbooth@soprema.co.uk)

- Combined Venting and underlayer: **Soprema Ventirock SBS 3 TF** 3.0mm SBS polyester reinforced torch applied venting underlayer.
Attachment: Torch applied on field area only
- Top layer/ Capsheet: **Sopralene Flam 180 AF** 3.5mm SBS polyester reinforced Capsheet
Colour: Black Slate
Attachment: Torch applied
- Standard Flashings and detail work: **Sopralene Flam 180 TF and Sopralene Flam 180 AF**
- Complicated Flashings and detail work: **Soprema Alsan Flashing** liquid applied system should be used

- Surface protection: All Soprema Capsheet membranes are entirely self-protected. However, additional ballast, paving and/or tiling surfacing can be considered as clauses 460, 465, 470, 810, 820, 840 and 860.

- Accessories: Soprema Depco outlets, Soprema Granules, Soprema Pipe Collars, Leaf Grates, Lightning Conductor Pads and Paving Supports all as required to satisfy Soprema Warranty requirement.

110 BUILT-UP REINFORCED BITUMEN MEMBRANE WARM DECK ROOF COVERING _____ **ROOF 5**

- Substrate: Existing
 - Preparation: Remove existing coverings to the screed by suitable means in accordance with 620 and 625
 - Preparation: Dry, clean and free from all contaminants, laitance, fines and protrusions. Surface to be primed with **Soprema Sopradere Bitumen Primer** to manufacturers' recommendations and clause 320, 530 & 610

- Air and Vapour control layer: **Sopravap ALU Activia 2** torch applied modified bitumen membrane with an aluminium composite reinforcement
 - Torch applied to primed substrate in accordance with 67

- Insulation: **Sopratherm T** rigid urethane foam (PIR) insulation board.
 - Minimum thickness 120mm to achieve U-value of 0.18W/m²K, in accordance with BS EN ISO 6946
 - Attachment: by torching upper face of **Sopravap Alu Activa Flam 2** in accordance with clause 680

- Waterproof covering:
 - System manufacturer: Manufacturer: **Soprema UK Limited, Soprema House , Freebournes Rd , Whitham ,Essex CM8 3UN**
T.+44(0) 330 058 0668 , F.+44(0) 8451 948 728
Contact – (Paul Booth 07921 473 909 pbooth@soprema.co.uk)

- Combined Venting and underlayer: **Soprema Ventirock SBS 3 TF** 3.0mm SBS polyester reinforced torch applied venting underlayer.
Attachment: Torch applied on field area only
- Top layer/ Capsheet: **Sopralene Flam 180 AF** 3.5mm SBS polyester reinforced Capsheet
Colour: Black Slate
Attachment: Torch applied
- Standard Flashings and detail work: **Sopralene Flam 180 TF and Sopralene Flam 180 AF**
- Complicated Flashings and detail work: **Soprema Alsan Flashing** liquid applied system should be used

- Surface protection: All Soprema Capsheet membranes are entirely self-protected. However, additional ballast, paving and/or tiling surfacing can be considered as clauses 460, 465, 470, 810, 820, 840 and 860.

- Accessories: Soprema Depco outlets, Soprema Granules, Soprema Pipe Collars, Leaf Grates, Lightning Conductor Pads and Paving Supports all as required to satisfy Soprema Warranty requirement.

PERFORMANCE

202 CONTRACTOR'S DESIGN OF ROOF COVERINGS

- Design responsibility: _____ .
- Structural and fire requirements:
 - Generally: As section B50.
 - Modifications: _____ .
 - Design: Complete the design in accordance with the designated code of practice to satisfy specified performance criteria.
- Functional requirements:
 - Performance: _____ .
- Additional requirements: _____ .
- Design and production information: _____ .
- Timing of submissions: _____ ..

210 ROOF PERFORMANCE

- General: Secure, free draining and weathertight.

220 AVOIDANCE OF INTERSTITIAL CONDENSATION: WARM AND INVERTED ROOFS - OFFICES

- Determine: Interstitial condensation risk of roof construction as recommended in BS 6229.
- Basic design data:
 - Outdoor notional psychrometric conditions, winter:
 - Temperature: -5°C.
 - Relative humidity: 90%.
 - Vapour pressure: 0.36 kPa.
 - Duration: 60 days.
 - Outdoor notional psychrometric conditions, summer:
 - Temperature: 18°C.
 - Relative humidity: 65%.
 - Vapour pressure: 1.34 kPa.
 - Duration: 60 days.
 - Indoor notional psychrometric conditions:
 - Temperature: 20°C.
 - Relative humidity: 40%.
 - Vapour pressure: 0.93 kPa.
- Winter interstitial condensate (warm roof):
 - Calculated amount (maximum): 0.35 kg/m².
 - Calculated annual net retention: Nil.
- Vapour control layer: If necessary, provide a suitable membrane or sealed deck so that damage and nuisance from interstitial condensation do not occur.

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): 0.18W/m²K .
 - Compressive strength of insulation (minimum) at 10% compression: 150 kPa. .
 - Finished surface: Suitably even, stable and robust to receive roof covering.
 - Insulation compliance: To a relevant British Standard, or Agrément certified.

PRODUCTS

- 320 PRIMER
- Type: Bitumen cut back with volatile solvent.
 - Characteristics when tested to BS EN 12846-2:
 - Viscosity (maximum) (STV at 25°C, 4 mm orifice): 10 s.
- 322 PRIMER FOR TORCH-APPLIED VAPOUR MEMBRANE
- Type: Cold-applied Bitumen Primer
 - Manufacturer: Soprema UK Ltd.
 - Product reference: Soprema Sopradere Quick
- 322 PRIMER FOR SELF-ADHESIVE VAPOUR MEMBRANE
- Type: Cold-applied Bitumen Primer
 - Manufacturer: Soprema UK Ltd.
 - Product reference: Soprema Elastocol 600.
- 325 BONDING COMPOUND for Insulation
- Type: Cold-applied polyurethane adhesive
 - Manufacturer: Soprema UK Ltd.
 - Product reference: Soprabond 525
 - Restriction: For heat sensitive insulation materials, use cold bonding compounds.
- 330 TIMBER 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: Not required.
- 335 ANGLE FILLETS
- Material: Non-combustible perlite or timber.
 - Size (minimum): 50x50mm.
 - Restriction: Fillets under torch-on bitumen membranes to be non-combustible.
- 340 PREFORMED SLEEVES
- Type: Outlets and Pipe Collars
 - Manufacturer: SOPREMA UK Limited.
 - Product reference: As required.
 - Colour: As roof membrane.
 - Size: As required.
- 345 PERIMETER TRIMS
- Type: GRP
 - Manufacturer: Soprema .
 - Product reference: Sopratrim.
 - Colour: TBC .
 - Size: TBC .
 - Lengths (maximum): 3 m.

- 370 COVER STRIPS TO JOINTS IN RIGID BOARD SUBSTRATES
- Bitumen membrane: To BS 8747 class S2P3.
 - Width: 150 mm.
- 390 ROOFLIGHTS
- Product : Sopralight Rooflight
 - Manufacture : Approved Soprema Partner
 - Product Ref - Oversleeve Vented Units Triple Skin
Size - TBC
- 391 ROOF DRAINAGE OUTLET
- Manufacturer:
 - " Product reference:
 - " Material:
 - " Size:
 - " Fixing: As per the manufacturers recommendations.
 - " Type of grate/ fittings: Flat grate leaf guard.
- 395 AIR AND VAPOUR CONTROL LAYER
- Type: Self-adhesive modified bitumen membrane with an aluminium foil and non-woven polyester reinforcement.
 - Manufacturer: Soprema UK Ltd.
 - Product reference: **Sopravap Stick ALU S16.**
 - Thickness: 1.5mm.
 - Vapour resistance: 6650 MNs/g.
- 395 VAPOUR CONTROL LAYER
- Type: torch applied modified bitumen membrane with an aluminium composite reinforcement
 - Manufacturer: Soprema UK Ltd.
 - Product reference: **Sopravap ALU Activia 2.**
 - Thickness: 3mm.
 - Vapour resistance: 6250 MNs/g.
- 400 BUILT-UP REINFORCED BITUMEN WATERPROOF COVERING
- System manufacturer: Soprema UK Limited
 - Product reference: 20 Year System
 - First layer: **Ventirock SBS 3TF**
 - Attachment: Torch on
 - Top layer/ Capsheet: **Sopralene Flam 180 AF**
 - Colour: Black Slate
 - Attachment: Torch on
 - Flashings and detail work: **Sopralene Flam 180 TF and Sopralene Flam 180 AF**
 - Guarantee: 20 Years

420 RIGID URETHANE FOAM (PIR) WARM DECK ROOF INSULATION

- Standard: BS EN 13165
- Manufacturer: Ecotherm in association with Soprema UK Ltd.
 - Product reference: SopraTherm T
- Compressive Strength at 10% compression: 150 kPa
- Edges: Straight
- Thickness: 120mm to achieve U-value of 0.18W/m²K, in accordance with BS EN ISO 6946
- Upper facing: Bituminised glass fibre tissue with polypropylene fleece
- Lower facing: Mineral coated glass fibre tissue

420 RIGID URETHANE FOAM (PIR) WARM DECK ROOF INSULATION

- Standard: BS EN 13165
- Manufacturer: Ecotherm in association with Soprema UK Ltd.
 - Product reference: SopraTherm T
- Compressive Strength at 10% compression: 150 kPa
- Edges: Straight
- Thickness: 80mm to achieve U-value of W/m²K, in accordance with BS EN ISO 6946
- Upper facing: Bituminised glass fibre tissue with polypropylene fleece
- Lower facing: Mineral coated glass fibre tissue

420 RIGID URETHANE FOAM (PIR) WARM DECK ROOF INSULATION – TAPERED

- Standard: BS EN 13165
- Manufacturer: Ecotherm in association with Soprema UK Ltd.
 - Product reference: SopraTherm CTF
- Compressive Strength at 10% compression: 150 kPa
- Edges: Straight
- Thickness: mm to achieve U-value of 0.18W/m²K, in accordance with BS EN ISO 6946
- Upper facing: Bituminised glass fibre tissue with polypropylene fleece
- Lower facing: Mineral coated glass fibre tissue

480 PIPE COLLARS

- Manufacturer: Soprema UK
 - Product reference: Soprema Pipe Collars.
- Size: To suit.

485 ROOF VENTILATORS

- Manufacturer: Soprema UK
 - Product reference: Soprema Vapour Aerators.
- Size: To Suit.

EXECUTION GENERALLY

515 ADVERSE WEATHER

- General: Do not lay coverings in high winds, wet or damp conditions or in extremes of temperature unless effective temporary cover is provided over working area.
- Unfinished areas of roof: Keep dry. Protect edges of laid membrane 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.

530 APPLYING PRIMERS

- Coverage per coat (minimum): 250g/m²
- Surface coverage: Even and full.
- Coats: Fully bond. Allow volatiles to dry off thoroughly between coats.

560 SITE INSPECTIONS

- Soprema Site Technicians will carry out regular inspections of the project during the course of the works. The Approved Contractor must give reasonable notice to Soprema of their intention to commence laying capping sheet. This will allow a discretionary inspection of the underlayer to take place, so that any remedial treatment necessary can be carried out prior to installing the capping sheet. This is particularly important when tapered insulation has been used to ensure that any areas of standing water that may remain can be addressed.
- Soprema must be notified when the roof is ready for final inspection and all related works and snagging complete.
- Contact UK Manager – (Mike Vaczi 07500 821877 mvaczi@soprema.co.uk)

SUBSTRATES/ VAPOUR CONTROL LAYERS/ WARM DECK ROOF INSULATION

610 SUITABILITY OF SUBSTRATES

- Substrates generally: Secure, clean, dry, smooth, and free from frost, contaminants, voids and protrusions.
- Preliminary work: Complete including:
 - Grading to correct falls.
 - Formation of upstands, kerbs, box gutters, sumps, grooves, chases and expansion joints.
 - Fixing of battens, fillets and anchoring plugs/ strips.
- Moisture content and stability of substrate: Must not impair roof integrity.

620 RENEWING EXISTING COVERINGS

- Areas to be renewed: As drawing
- Substrate: Do not damage.
- Timing: Remove only sufficient coverings as will be renewed and made weathertight on same day.

625 REMOVING EXISTING COVERINGS

- Mechanical stripping: _____ .
- Exposed substrate: Do not damage.

630 MAKING GOOD EXISTING REINFORCED BITUMEN MEMBRANE ROOF COVERING

- Existing items to be removed: _____ .
- Dust, dirt, debris, moss, plants and grease: Remove.
- New materials and accessories: Compatible with existing.
- Blisters: Star cut, dry out and rebond.
- Defective areas of bitumen membrane: Cut back to substrate and dry out. Patch level with existing covering with layers of matching bitumen membrane, lapped minimum 100 mm onto existing membrane.
- Cracked and split bitumen membrane: Cut back to substrate 150 mm wide at cracks and splits and dry out. Insert 150 mm wide strip of matching bitumen membrane, bonded to substrate at edges only. Fully bond a layer of bitumen membrane over strip, lapped minimum 100 mm onto existing bitumen membrane at edges.
- Stress failure at edge trims: Cut back bitumen membrane to substrate. Secure ends of edge trims. Patch level with existing surface with layers of matching bitumen membrane.
- Detached bitumen membrane at upstands: Repair, re-adhere and protect with additional layer of matching bitumen membrane if necessary.
- Defects at penetrations: Cut out, clean, prime and reseal.

640 FIXING TIMBER TRIMS

- Fasteners: _____ .
- Fixing centres (maximum): _____ .

660 JOINTS IN RIGID BOARD SUBSTRATES

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

670 LAYING VAPOUR CONTROL LAYER

- Attachment: Securely bond or nail to substrate.
- Field area application to be fully bonded with the assistance of a roller insert to ensure a 5-10mm bituminous bead extrusion is achieved on all overlaps.
- Side and head laps: fully sealed
- Upstands, kerbs and other penetrations: Enclose edges of insulation. Fully seal at abutment by bonding or taping.
- Joints in second layer (where applicable): Stagger by half a membrane.
- Penetrations: Fully seal using bonding or taping methods recommended by manufacturer.
- Edges of insulation at roof edges, abutments, upstands, kerbs, penetrations and the like: Enclosed with vapour control layer:
 - Dressed up sufficiently, providing 50 mm (minimum) seal when overlapped by the roof covering; or
 - Turned back 150 mm (minimum) over the insulation and sealed down.

680 LAYING WARM DECK ROOF INSULATION

- Setting out:
 - Long edges: Fully support and run at right angles to _____ .
 - End edges: Adequately support.
 - Joints: Butt together.
 - End joints: Stagger.
- Bedding: Full bed of bonding compound.
- Mechanical fixing: _____ .
- Protection to exposed edges of insulation: Reduced thickness treated timber batten, outer edge chamfered at changes in level.
- Completion: Boards must be in good condition, well fitting and stable.

WATERPROOF MEMBRANES/ ACCESSORIES**710 LAYING REINFORCED BITUMEN MEMBRANES GENERALLY**

- Direction of laying: Unrolled up the slope.
 - Where practicable, install so that water drains over and not into laps.
- Side laps 80mm and end laps 150mm.
- Head and side laps: Offset.
- Intermediate and top layer/ capsheet: Fully bond.
- Successive layers: Apply without delay. Do not trap moisture.
- Strips of bitumen membrane for 'linear' details: Cut from length of roll.
- Completed coverings: Firmly attached, fully sealed, smooth, weatherproof and free draining.

730 PARTIAL BONDING OF REINFORCED BITUMEN MEMBRANES

- Venting first layer: Loose lay, align and cut to length. Do not carry up angle fillets and vertical surfaces or through details.
 - Long edges: Overlap minimum 50 mm.
 - Ends: Butt together.
- Intermediate layer: Fully bond to first layer and through to substrate.

740 TORCH-ON BONDING OF REINFORCED BITUMEN MEMBRANES

- Bond: Full over whole surface, with no air pockets.
- Excess compound at laps of top layer/ capsheet: Leave as continuous bead.

747 SELF-ADHESIVE BONDING OF REINFORCED BITUMEN MEMBRANES

- Bond: Full over whole surface, with no air pockets.

750 LAYING MINERAL FACED REINFORCED BITUMEN MEMBRANES

- Lap positions and detailing of ridges, eaves, verges, hips, abutments, etc: Submit proposals.
- Setting out: Neat, with carefully formed junctions.
- Lap bonding: Carry out only at prefinished margins or prepared 'black to black' edges.
- Excess bonding compound at laps: Remove whilst still warm.

765 WELDED JOINTING OF SINGLE LAYER REINFORCED BITUMEN MEMBRANES

- Side and end joints:
 - Preparation: Clean and dry surfaces for full width of joint.
 - Sealing: Hot air welded.

773 FIRE RISK DETAILING - ALTERNATIVE MEMBRANES

- For detailing application in areas constructed from or adjacent to potentially flammable materials, such as timber, plywood OSB/3 etc. or where considered appropriate to minimise fire risk.
- Primers: Soprema Elastocol 600 Primer must be used when using Soprema self-adhesive membranes and a torch-free application is required.
- Underlayers: it is permissible to use a Soprema self-adhesive membrane so long as this product is a recognised component of the system specified.
- Acceptable alternatives underlayers & vapour barriers are listed below: -
- Soprema EVA 35 vapour barrier to be replaced with Soprema ALU S16 vapour barrier
- Soprema Ventirock SBS 3 TF to be replaced with Soprema Soprastick FF
- Soprema 250 / 180 TF underlay to be replaced with Soprema Soprastick underlay
- Soprema Alsan liquid waterproofing system

775 SKIRTINGS AND UPSTANDS

- Angle fillets: Fix by bitumen bonding or nailing.
- Venting first layer of bitumen membrane: Stop at angle fillet. Fully bond in bitumen for 300 mm strip around perimeters. Overlap onto upstand with strips of BS 8747, Class S1P1 bitumen membrane, fully bonded.
- Other layers of bitumen membrane: Carry in staggered formation up upstand, with each layer fully bonded. Where practicable, carry top layer over top of upstand.
- Upstands:
 - At ends of rolls: Form with bitumen membrane carried up without using separate strip.
 - Elsewhere: Form with matching strips of bitumen membrane, maintaining laps.
 - Additional fixing of bitumen membranes: _____ .

785 FIXING PERIMETER TRIMS

- First/ Intermediate layers bitumen membrane: Lay over roof edge upstand. Project free edge 25 mm from wall or fascia.
- Trim:
 - Setting out (minimum): 3 mm clear from wall or fascia.
 - Fasteners: _____ .
 - Fixing: 30 mm from ends and at 300 mm (maximum) centres.
 - Jointing sleeves: Fix one side only.
 - Corner pieces: Purpose made.
- Completion:
 - Contact surfaces: Prime.
 - Joints: Cover with 150 mm long pads of bitumen membrane, bonded to trim.
- Completion of bitumen membrane:
 - Top layer/ Capsheet: Butt joint to rear edge of trim.
 - Cover strip: Fully bond to trim and top layer/ capsheet of bitumen membrane. Carry over roof edge upstand and lap 75 mm onto roof.
 - Cover strip material: _____ .

790 INSTALLING ROOF VENTILATORS

- Setting out: Position evenly over roof area.
 - Centres (maximum): _____ .
 - Distance from roof edges: _____ .
- Holes for ventilators: Cut neatly to suit size of vents through _____ .
- Priming:
 - Substrate below vents: Do not prime or apply bonding compound.
 - Vent skirts: Prime before sheeting, if recommended by manufacturer.

COMPLETION**910 INSPECTION**

- Interim and final roof inspections: Submit reports.
- Contact UK Manager – (Mike Vaczi 07500 821877 mvaczi@soprema.co.uk)

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 from chemicals, traffic and adjacent or high level working.