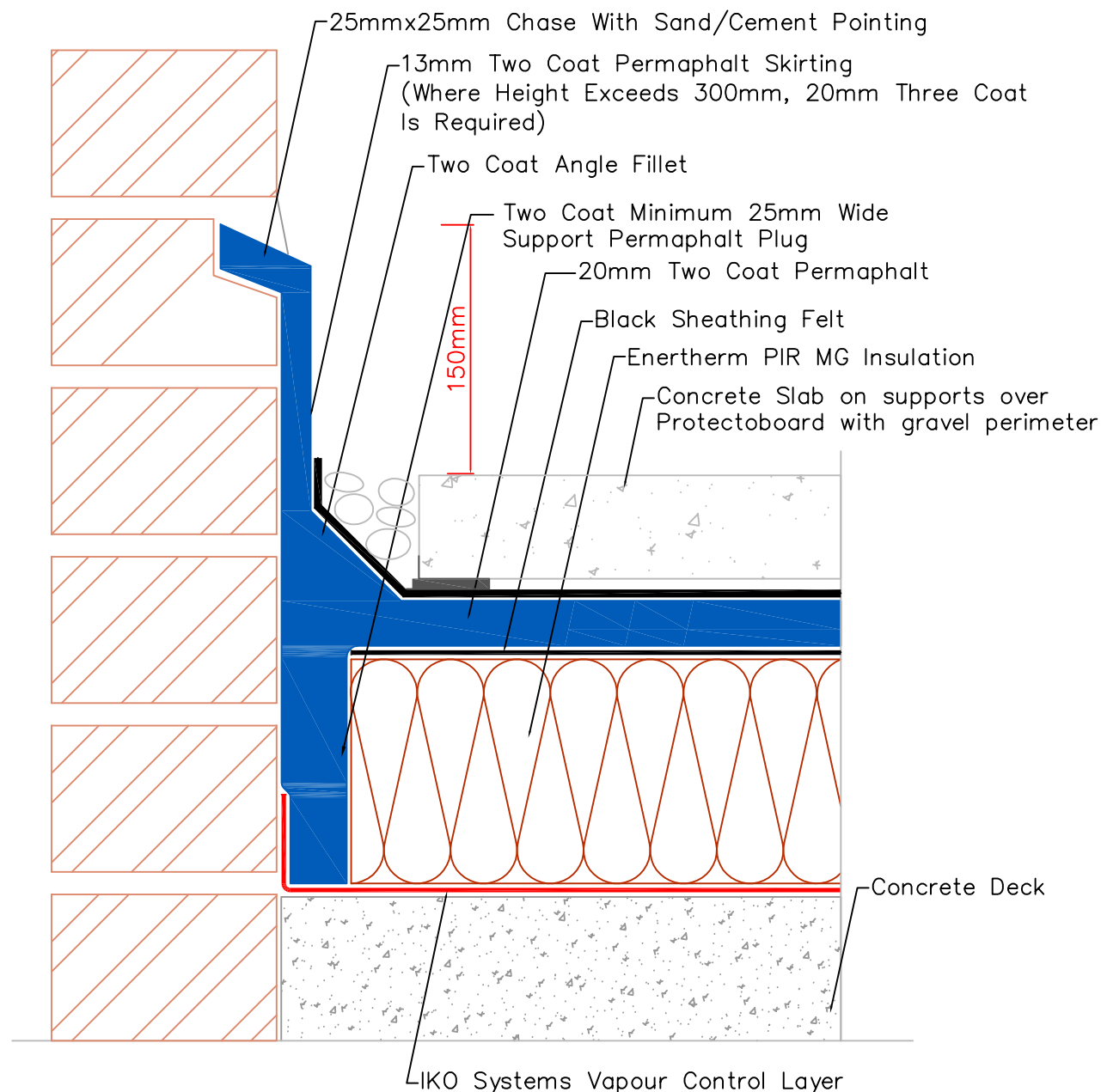




PERMAPHALT POLYMER MODIFIED ASPHALT ROOFING

Notes

- * Two coat Solaflect solar reflective paint to be applied to all exposed Permaphalt and Lead flashing surfaces.
- * Should it not be possible to reproduce the detail shown, technical services should be notified immediately.



TECHNICAL SERVICES
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DERBYSHIRE, DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: technical@ikogroup.co.uk

Drawing Title:

SKIRT DETAIL TO SLABBED
INSULATED TERRACE

Date:

09:06:2010

Scale:

NTS

Drawing No:

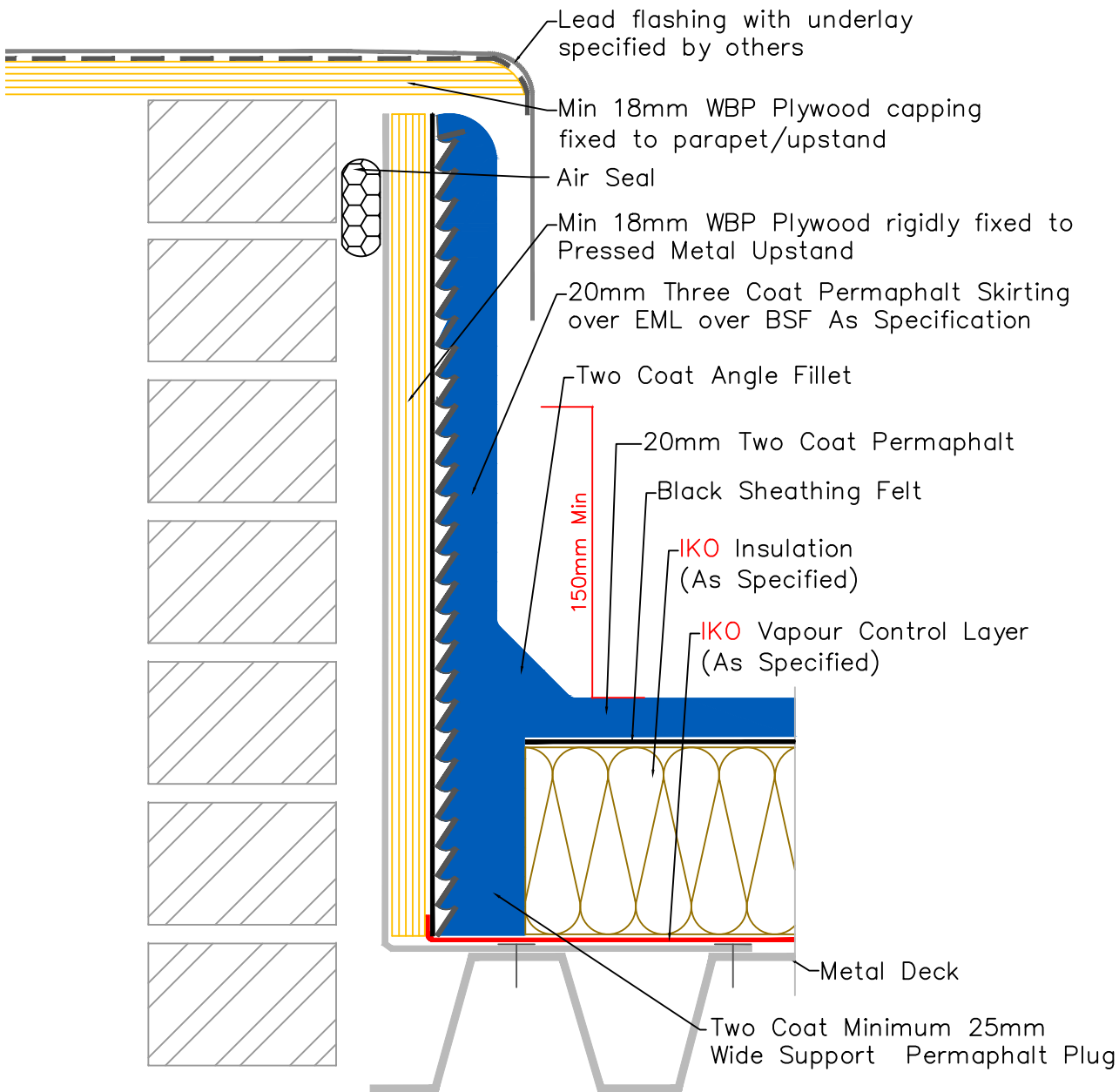
3_ASP_WARM_CONC_SKIRT_CHASE-
SLAB-TERRACE

Drawn by:

ME

Revision:

Sheet No:



SKIRTING TO UPSTAND - (METAL DECK WARM ROOF)

Securely fix free-standing metal upstand with minimum 18mm WBP plywood facing, to structural deck to give a minimum upstand height of 150mm, above the finished roof surface. The upstand must be designed to provide sufficient rigidity for the application of the **Permaphalt** skirting over expanded metal lathing and **Black Sheathing Felt**. As a guide the fixing leg should be not less than 150mm and the gauge not less than 2mm. Include for a cover flashing tucked into chase and sealed.

The flashing should dress down the face of the upstand by 75mm and to minimise solar heat gain, a minimum 3mm air gap should be left between the flashing and **Permaphalt**. Also an allowance for any movement should be catered for.

Lay **Permaphalt** nominal 20mm thick in 3 coats on fixed EML over **Black Sheathing Felt** over minimum 18mm WBP Plywood t. Form 2 coat solid **Permaphalt** angle fillet at base, form fair edge at top.

The detail is finished with Lead Flashing that is specified by others and installed in accordance with the suppliers instructions. An allowance for any movement is to be calculated by others and the required gap allowed for.

Two coat **Solaflect** reflective paint to be applied to all **Permaphalt** details and flashing.

N.B. Completed waterproofing upstand details should always be installed so as to achieve a height of 150mm minimum above the finished roof level.



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PROJECT NAME & ADDRESS
PROJECT NAME &
ADDRESS

DRAWING TITLE
PERMAPHALT DETAIL - SKIRTING TO BRICK OR CONCRETE UPSTAND, FLASHING WARM
ROOF METAL DECK 4_ASP_WARM_SKIRT_FLASH_METAL DECK)

SPEC No:
XXXXXX.2012

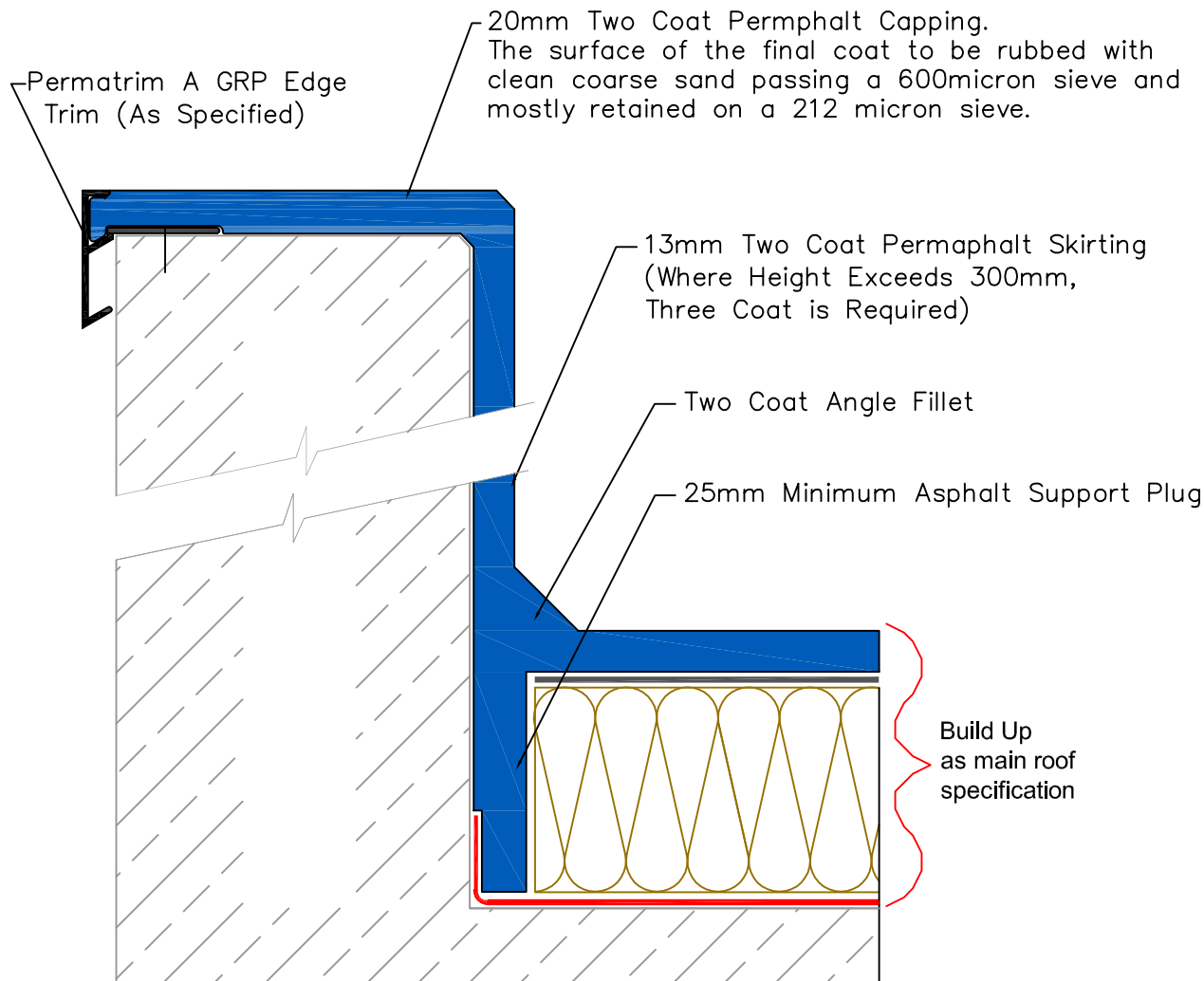
DATE:
01/09/2020

NOTES/REVISIONS

DWG No:

DRAWN:
ME

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WATERPROOFING TO PARAPET - New GRP Trim (CONCRETE DECK WARM ROOF)

Remove any existing cappings and dispose off site.

Remove cavity tray from within the cavity wall which directs water internally to the roof area remove all dust and dirt from the chase, surfaces must be clean smooth and dry, and primed with **IKOpro High Bond Primer**.

Inspect & carry out any necessary maintenance work to the brickwork, i.e; repairing frost damage, re-pointing or re-building any loose sections. Maintenance to concrete should be carried out by a specialist contractor.

Wire brush the surfaces to remove all loose dust & foreign material. Surfaces to which the waterproofing system is to be applied to must be smooth, clean, dry & sound.

Install **Permatrim A Edge Trim** (dimensions & colour as specified). Screw fix at maximum 300mm centres, including a fixing at each end of individual lengths, with minimum 25mm long corrosion resistant fixings. Wipe clean, apply light brush application of **IKOpro High Bond Primer** to fixing arm and allow to dry.

Prime all brick/cementitious upstands, slopes etc and GRP Trim with **IKOpro High Bond Primer** and allow to dry. Ensure that primer is continued in to any recesses.

Lay the specified Vapour Control Layer as specified.

Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm. To be bonded as the specification.

Lay **Permaphalt** nominal 13mm thick in 2 coats on primed brick or concrete upstands not exceeding 300mm high. Form 2 coat solid **Permaphalt** angle fillet at base.

Lay **Permaphalt** nominal 20mm thick in 3 coats on primed brick or concrete upstands exceeding 300mm high. Form 2 coat solid **Permaphalt** angle fillet at base.

Lay **Permaphalt** capping nominal 20mm thick in 2 X 10mm coats on primed brick or concrete base. The surface of the final coat to be rubbed with clean coarse sand mostly passing a 600 micron sieve and mostly retained on a 212 micron sieve.

Dress **Permaphalt** into primed **Permatrim A GRP Edge Trim**.

White solar reflective paint to be applied to all exposed **Permaphalt**.



Polymer Modified Mastic Asphalt

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PROJECT NAME & ADDRESS

PROJECT NAME &
ADDRESS

DRAWING TITLE

WATERPROOFING TO PARAPET WITH NEW GRP TRIM

SPEC NO:

XXXXXX.2012

DATE:

23/09/2013

NOTES/REVISIONS

DWG No:

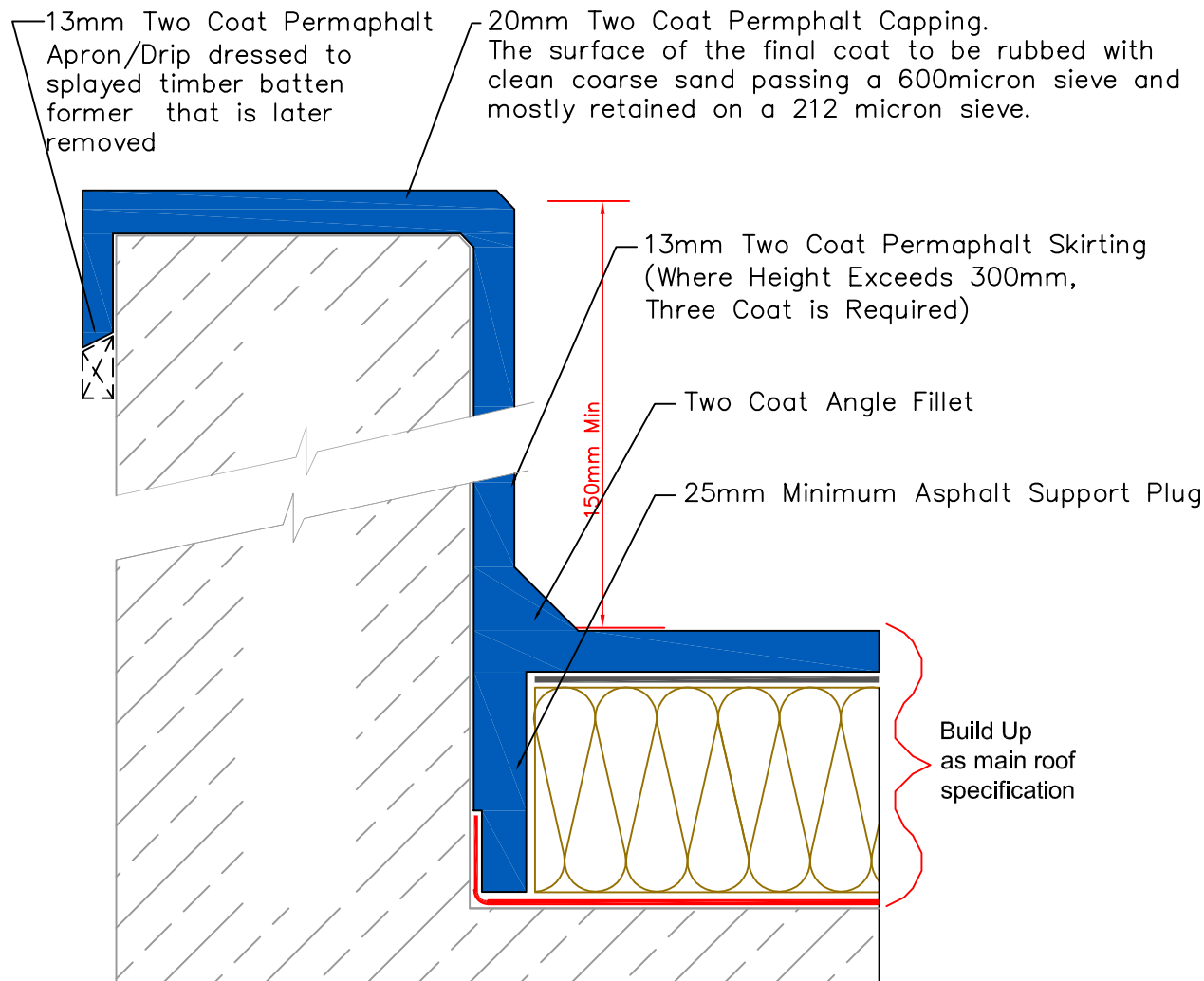
A2

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WATERPROOFING TO PARAPET - Asphalt Apron with undercut drip (CONCRETE DECK WARM ROOF)

Remove any existing cappings and dispose off site.

Remove cavity tray from within the cavity wall which directs water internally to the roof area remove all dust and dirt from the chase, surfaces must be clean smooth and dry, and primed with **IKOpro High Bond Primer**.

Inspect & carry out any necessary maintenance work to the brickwork, i.e; repairing frost damage, re-pointing or re-building any loose sections. Maintenance to concrete should be carried out by a specialist contractor.

Wire brush the surfaces to remove all loose dust & foreign material. Surfaces to which the waterproofing system is to be applied to must be smooth, clean, dry & sound.

Install temporary splayed timber batten that will allow the formation of the drip.

Prime all brick/cementitious upstands, slopes etc and GRP Trim with **IKOpro High Bond Primer** and allow to dry. Ensure that primer is continued in to any recesses.

Lay the specified Vapour Control Layer as specified.

Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm. To be bonded as the specification.

Lay **Permaphalt** nominal 13mm thick in 2 coats on primed brick or concrete upstands not exceeding 300mm high. Form 2 coat solid **Permaphalt** angle fillet at base.

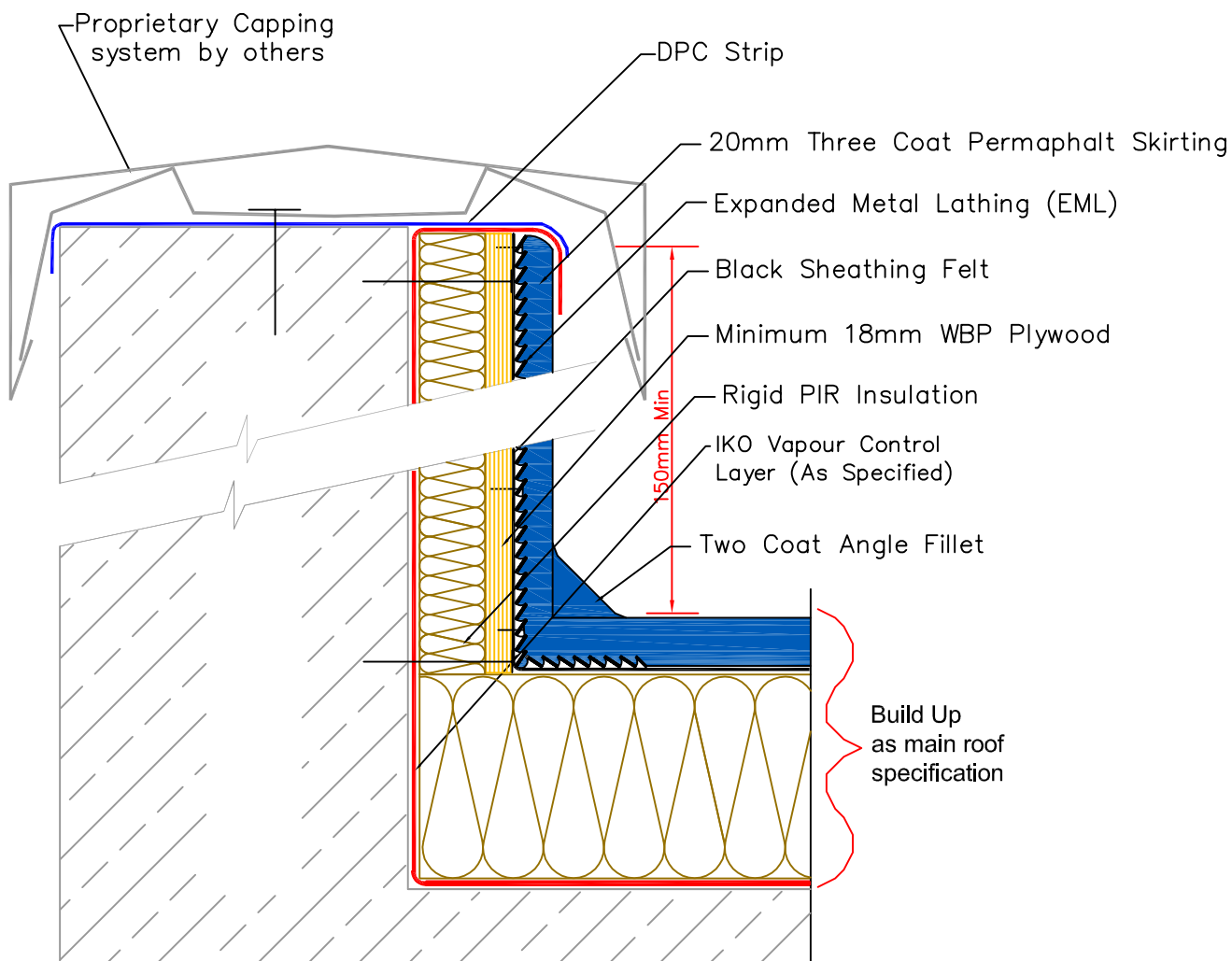
Lay **Permaphalt** nominal 20mm thick in 3 coats on primed brick or concrete upstands exceeding 300mm high. Form 2 coat solid **Permaphalt** angle fillet at base.

Lay **Permaphalt** capping nominal 20mm thick in 2 X 10mm coats on primed brick or concrete base. The surface of the final coat to be rubbed with clean coarse sand mostly passing a 600 micron sieve and mostly retained on a 212 micron sieve.

Form **Permaphalt** drip. Once cooled remove batten and make good.

White solar reflective paint to be applied to all exposed **Permaphalt** details.

N.B. Completed waterproofing upstand details should always be installed so as to achieve a height of 150mm minimum above the finished roof level.



WATERPROOFING TO PARAPET - New Metal Parapet Capping - Insulation to upstand (CONCRETE DECK WARM ROOF)

Wire brush the surfaces to remove all loose dust & foreign material. Surfaces to which the waterproofing system is to be applied to must be smooth, clean, dry & sound.

Securely fix, minimum thickness 18mm WBP Plywood over 50mm thickness of **Enertherm MG PIR** to the upstand, with long corrosion resistant screws at 300mm centres top and bottom. The Vapour Control Layer should be extended to encapsulate the insulation and pass over the external face of the asphalt. The upstand must be designed to provide sufficient rigidity for the application of the **Permaphalt** skirting over expanded metal lathing and **Black Sheathing Felt**. The depth must give a minimum upstand height of 150mm, above the finished roof surface.

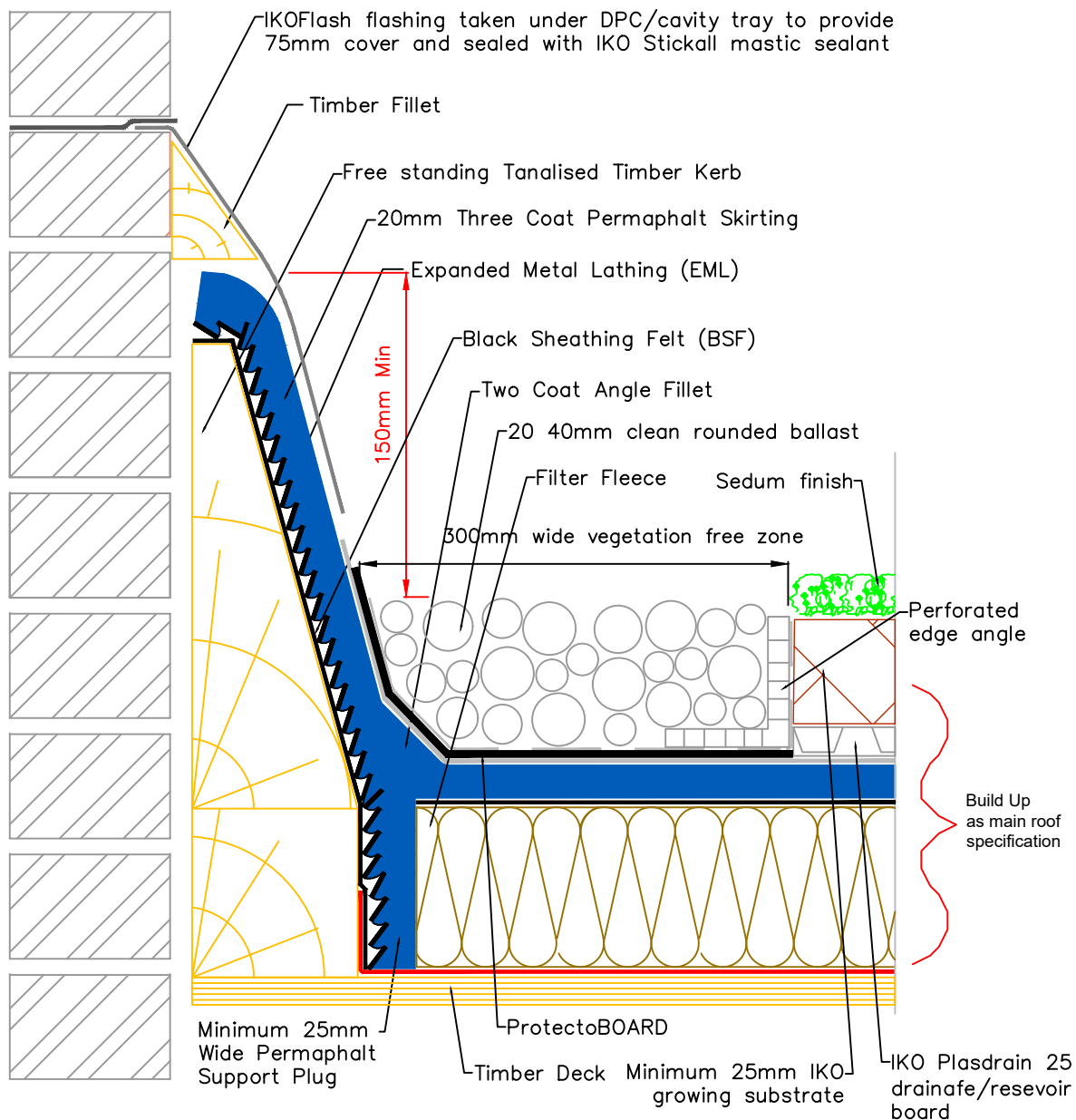
Securely fix Galvanised Expanded Metal Lathing (EML) over **Black Sheathing Felt** to all vertical and insulated sloping timber surfaces over 50 to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.46mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions. Turn the EML onto the flat, about 40mm

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt** over all timber/plywood surfaces. Form 2 coat solid **Permaphalt** angle fillet at base, form fair edge at top.

White solar reflective paint to be applied to all exposed **Permaphalt**.

Install new proprietary capping system in accordance with manufacturers instructions. The capping flashing should dress down the face of the upstand to prevent water ingress and to minimise solar heat gain, a minimum 3mm air gap should be left between the flashing and **Permaphalt**.

N.B. Completed waterproofing upstand details should always be installed so as to achieve a height of 150mm minimum above the finished roof level.



SKIRTING TO FREE STANDING TIMBER KERB

New Flashing

(TIMBER DECK WARM ROOF)

Chase for the flashing should be one brick above the asphalt. Carefully rake/cut out the joint to a depth of not less than 25mm. The position of a new chase must always be carefully considered to ensure the position of existing DPCs and cavity trays is not compromised.

Wire brush the surfaces to remove all loose dust & foreign material. Surfaces to which the waterproofing system is to be applied to must be smooth, clean, dry & sound.

Securely fix free-standing tanalised timber kerb to structural deck. The upstand must be designed to provide sufficient rigidity for the application of the **Permaphalt** skirting over expanded metal lathing and **Black Sheathing Felt**. The depth must give a minimum upstand height of 150mm above the finished roof surface. Include for a cover flashing tucked into chase and sealed.

Securely fix Galvanised Expanded Metal Lathing (EML) over **Black Sheathing Felt** to all vertical and sloping timber surfaces over 100 to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.46mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt** over all timber/plywood surfaces. Form 2 coat solid **Permaphalt** angle fillet at base, form fair edge at top.

Solar reflective paint to be applied to all exposed **Permaphalt**.

Fit tanalised timber fillet. Provide **IKOFLASH LEAD FREE FLASHING** to the provided chase, lengths not to exceed 1500mm ensuring end laps are not less than 100mm & that a minimum cover of 75mm is provided to the upstand.

N.B. Completed waterproofing upstand details should always be installed so as to achieve a height of 150mm minimum above the finished roof level.

IKO permaphalt

Polymer Modified Mastic Asphalt

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PROJECT NAME & ADDRESS

PROJECT NAME &
ADDRESS

DRAWING TITLE

SKIRTING TO FREE STANDING TIMBER KERB - NEW FLASHING
EXTENSIVE SEDUM GREEN ROOF

SPEC No:

XXXXXX.2015

DATE:

28/01/2015

NOTES/REVISIONS

DWG No:

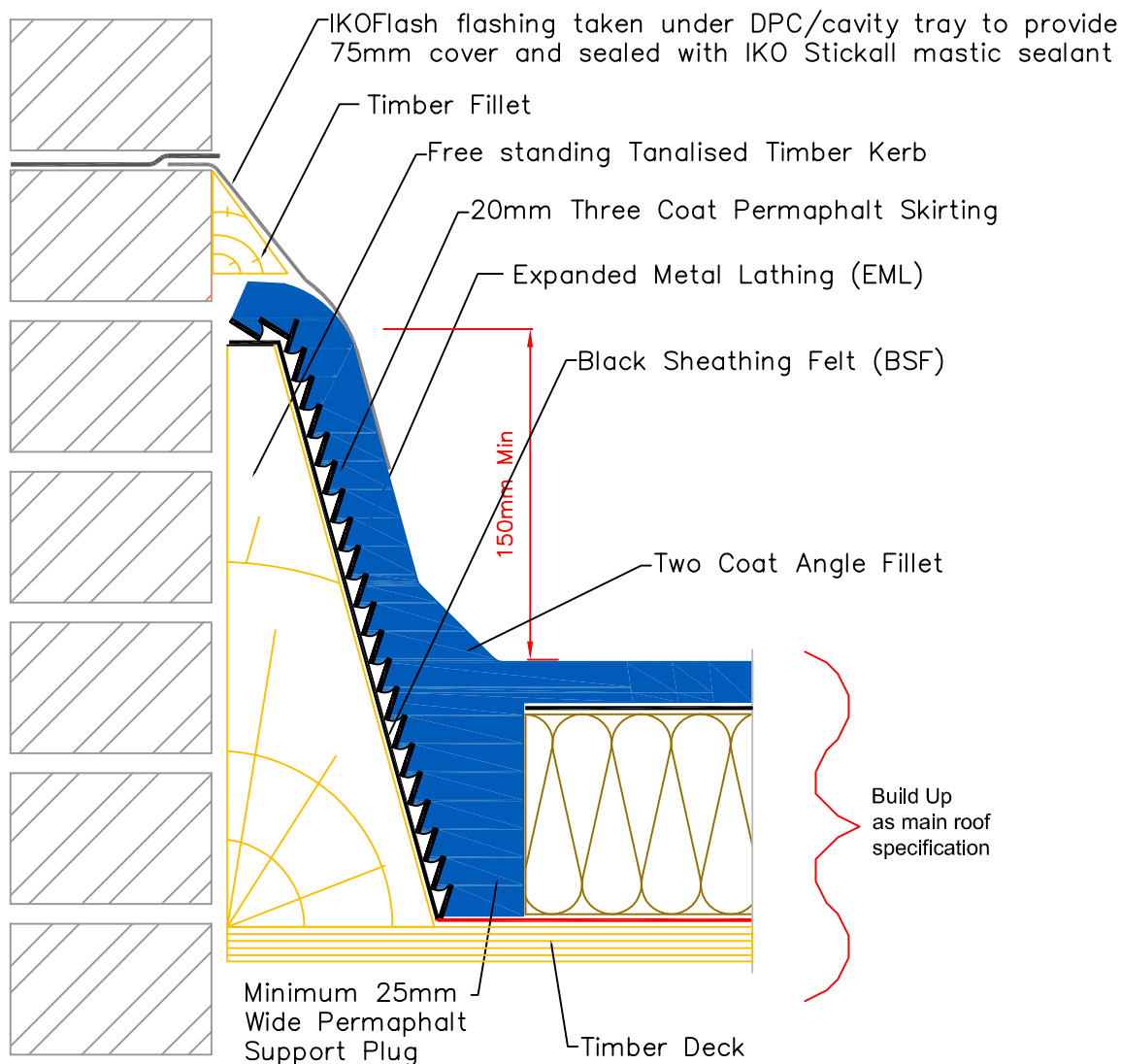
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SKIRTING TO FREE STANDING TIMBER KERB

New Flashing

(TIMBER DECK WARM ROOF)

Remove any existing flashing & dispose off site.

Remove cavity tray from within the cavity wall which directs water internally to the roof area remove all dust and dirt from the chase, surfaces must be clean smooth and dry, and primed with **IKOpro High Bond Primer**.

Inspect & carry out any necessary maintenance work to the brickwork, i.e; repairing frost damage, re-pointing or re-building any loose sections. Maintenance to concrete should be carried out by a specialist contractor.

Chase for the flashing should be one brick above the asphalt. Carefully rake/cut out the joint to a depth of not less than 25mm. The position of a new chase must always be carefully considered to ensure the position of existing DPCs and cavity trays is not compromised.

Wire brush the surfaces to remove all loose dust & foreign material. Surfaces to which the waterproofing system is to be applied to must be smooth, clean, dry & sound.

Securely fix free-standing tanalised timber kerb to structural deck. The upstand must be designed to provide sufficient rigidity for the application of the **Permaphalt** skirting over expanded metal lathing and **Black Sheathing Felt**. The depth must give a minimum upstand height of 150mm above the finished roof surface. Include for a cover flashing tucked into chase and sealed.

Securely fix Galvanised Expanded Metal Lathing (EML) over **Black Sheathing Felt** to all vertical and sloping timber surfaces over 10o to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.46mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt** over all timber/plywood surfaces. Form 2 coat solid **Permaphalt** angle fillet at base, form fair edge at top.

Solar reflective paint to be applied to all exposed **Permaphalt**.

Fit tanalised timber fillet. Provide **IKOFLASH LEAD FREE FLASHING** to the provided chase, lengths not to exceed 1500mm ensuring end laps are not less than 100mm & that a minimum cover of 75mm is provided to the upstand.

N.B. Completed waterproofing upstand details should always be installed so as to achieve a height of 150mm minimum above the finished roof level.

IKO permaphalt
Polymer Modified Mastic Asphalt

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PROJECT NAME & ADDRESS

PROJECT NAME &
ADDRESS

DRAWING TITLE

SKIRTING TO FREE STANDING TIMBER KERB - NEW FLASHING

SPEC No:

XXXXXX.2012

DATE:

25/09/2013

NOTES/REVISIONS

DWG No:

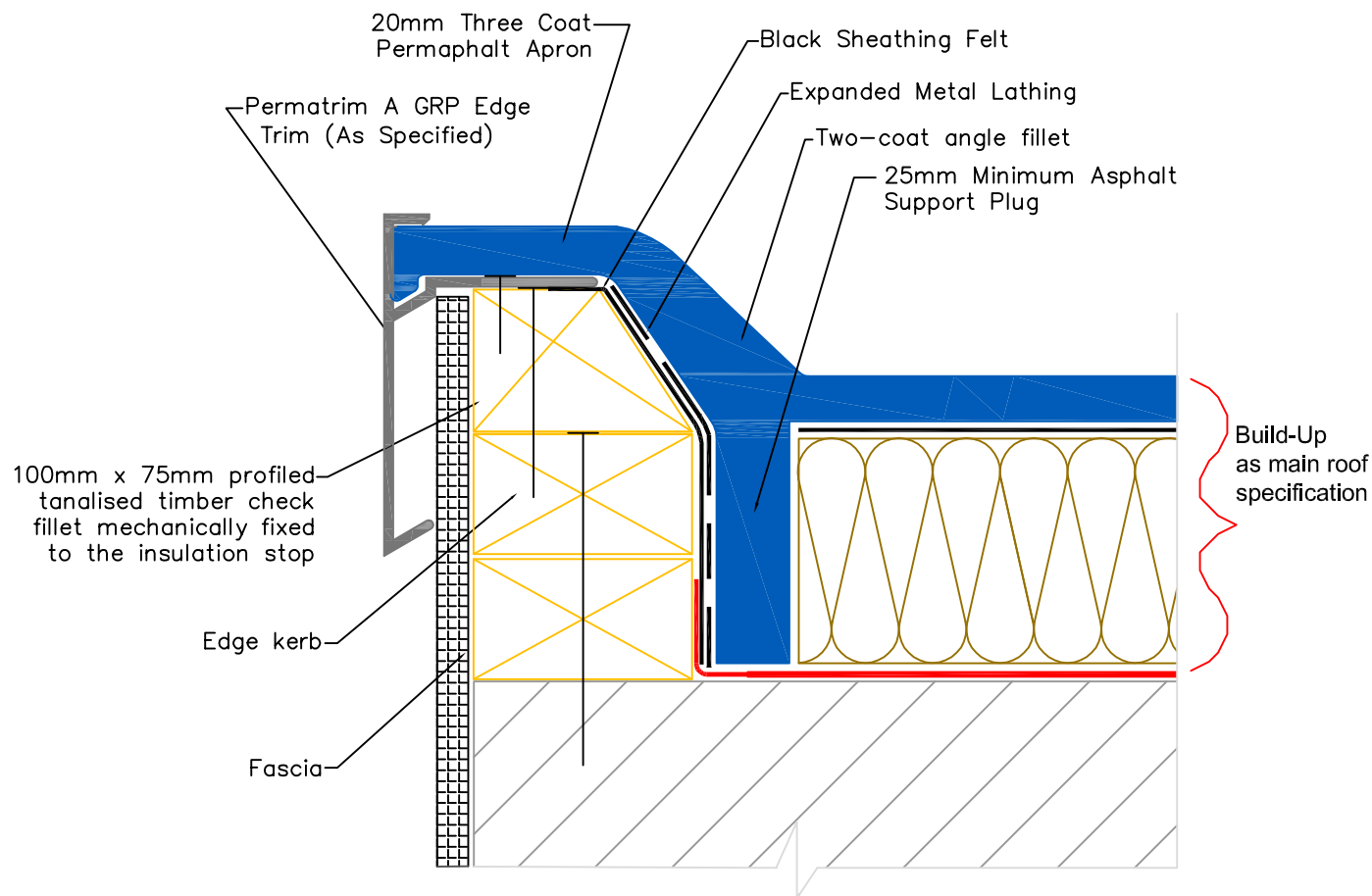
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CHECK KERB DETAIL - Timber Kerb, GRP Trim ALL DECKS (WARM ROOF)

Raise open perimeter check kerb, using treated timber, to give an upstand height of 75mm above the surface of the completed waterproofing. Inner face of kerb to be chamfered to a 45° angle, using either profiled timber or tilt fillets.

When raising perimeter check kerbs, consideration must be given to the external appearance of the building & the potential requirement for fascia boards or trims with increased depth & or additional cladding sections to be used. It is suggested that guidance is sought from the client & allowance made for this aspect prior to commencing the contract.

Securely fix Galvanised Expanded Metal Lathing (EML) over **Black Sheathing Felt** to all vertical and insulated sloping timber surfaces over 5 degrees to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.46mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

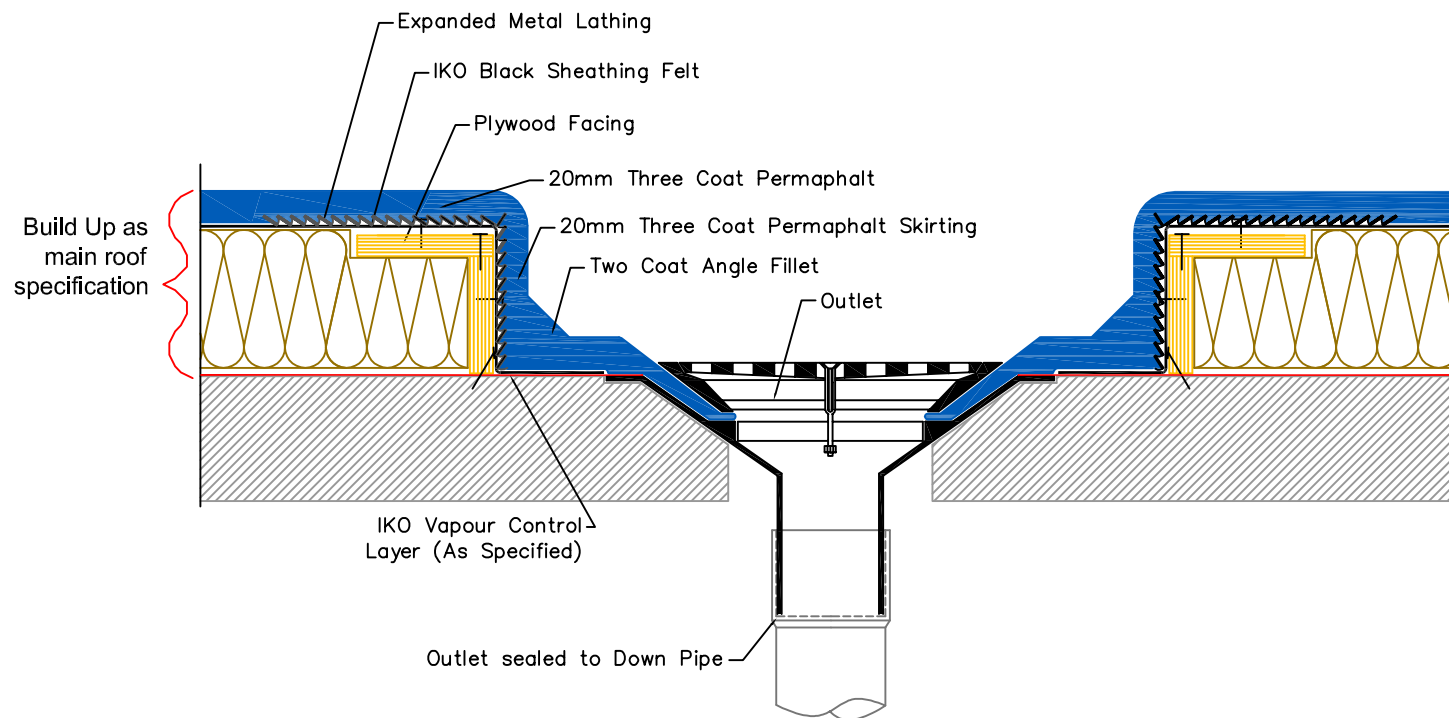
Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm.

Install **Permatrium A Edge Trim** (dimensions & colour as specified). Screw fix at maximum 300mm centres, including a fixing at each end of individual lengths, with minimum 25mm long corrosion resistant fixings. Wipe clean, apply light brush application of **IKOpro High Bond Primer** to fixing arm and allow to dry.

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt**. Form 2 coat solid **Permaphalt** angle fillet at base.

Dress **Permaphalt** into primed **Permatrium A GRP Edge Trim**.

White solar reflective paint to be applied to all **Permaphalt** details.



INTERNAL RAINWATER OUTLET

(Robust Any Deck Warm Roof)

Contractor to install rigid plywood facing insulation edge at all changes in level/gutter edges to;

- allow the thickness of the asphalt to be maintained
- Reduce cold bridge.
- protect the edge of the insulation,
- reduce watercheck
- provide a substrate to enable proper fixing of the expanded metal lathing.

Facing to be securely fixed at minimum 300mm centres to the roof substrate.

Securely fix galvanised metal lathing (EML) over black sheathing felt to the plywood facing overlapping onto the insulation by a minimum of 40mm and down the vertical to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.45mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

Rainwater outlets must be designed specifically for use with mastic asphalt, fitted with clamping rings and chipping guards, securely fixed flush to the deck and correctly connected to the down pipes. Wire brush, apply light brush application of **IKOpro High Bond Primer** and allow to dry.

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt**. Form 2 coat solid **Permaphalt** angle fillet at base.

Dress **Permaphalt** down into the throats of the primed internal rainwater outlets.

Fit clamp ring and chipping guard/grating.

Solar reflective coat to be applied to all exposed **Permaphalt**, as specified.



Polymer Modified Mastic Asphalt

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Email: technical@ikogroup.co.uk

PROJECT NAME & ADDRESS

XXXXXXXX

DRAWING TITLE

INTERNAL RAINWATER OUTLET
ANY DECK - WARM ROOF

SPEC NO:

ASPHXXX.2013

DATE:

15/10/2013

NOTES/REVISIONS

DWG NO:

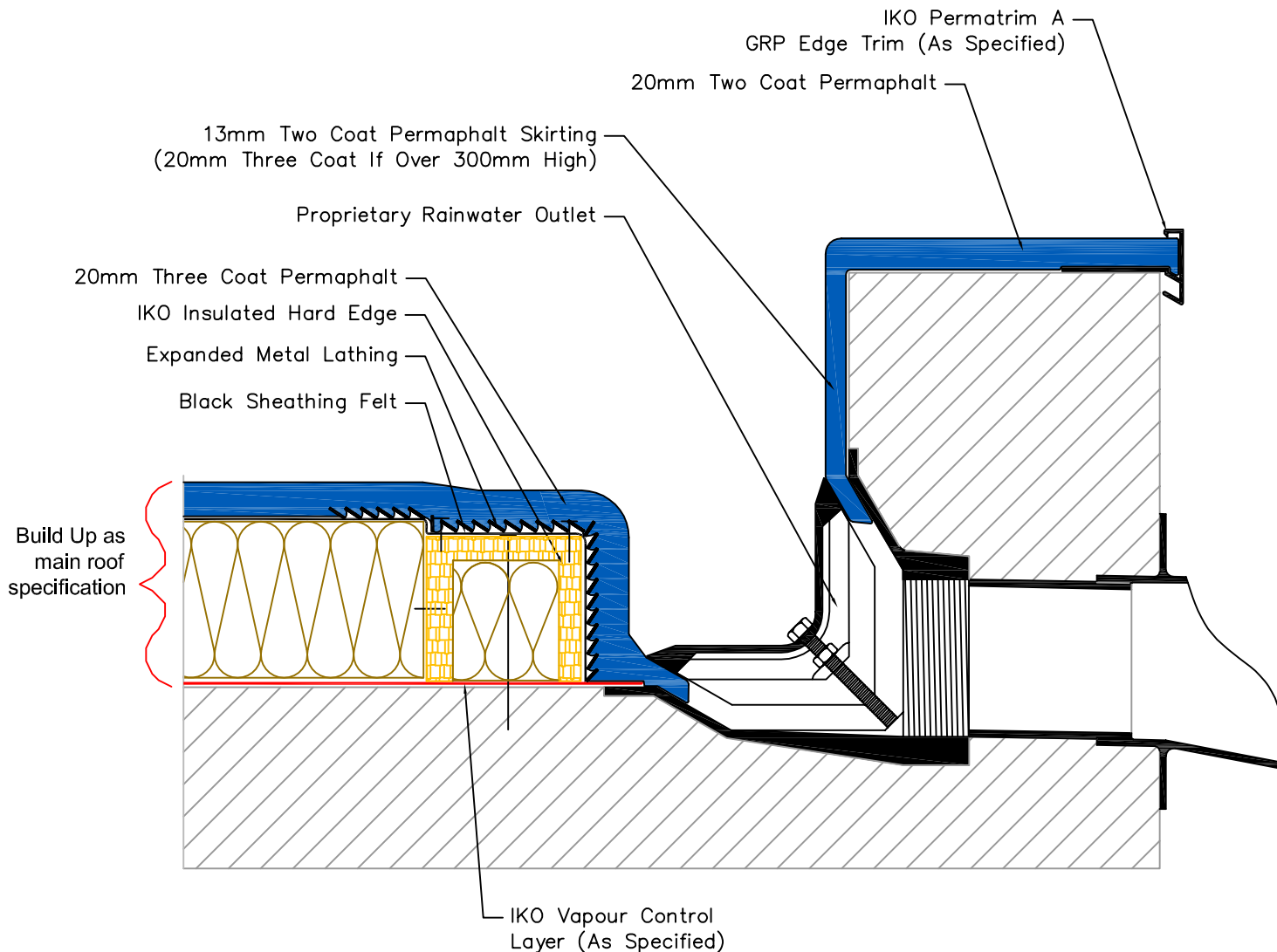
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DRAWN:

ME

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TWO WAY OUTLET CONCRETE KERB GRP EDGE TRIM CONCRETE DECKS IKO Insulated Hard Edge (WARM ROOF)

Contractor to install **IKO Insulated Hard Edge** 10mm less than the thickness of the insulation at all changes in level/gutter edges to;

- allow the thickness of the asphalt to be maintained
- protect the edge of the insulation,
- reduce watercheck
- provide a substrate to enable proper fixing of the expanded metal lathing.

Batten to be securely fixed at minimum 300mm centres to the roof substrate.

Securely fix galvanised metal lathing (EML) over black sheathing felt to the **IKO Insulated Hard Edge** overlapping onto the insulation by a minimum of 40mm and down the vertical to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.45mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

Rainwater outlets must be designed specifically for use with mastic asphalt, fitted with clamping rings and chipping guards, securely fixed to the deck and correctly connected to the down pipes.

Install **Permatrim A Edge Trim** (dimensions & colour as specified). Screw fix at maximum 300mm centres, including a fixing at each end of individual lengths, with minimum 25mm long corrosion resistant fixings.

Prime all brick/cementitious upstands, slopes outlets etc and GRP Trim with **IKOpro High Bond Primer** and allow to dry. Ensure that primer is continued in to any recesses.

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt**. Form 2 coat solid **Permaphalt** angle fillet at base.

Lay **Permaphalt** nominal 13mm thick in 2 coats on primed brick or concrete upstands not exceeding 300mm high. If over 300mm high then lay **Permaphalt** nominal 20mm thick in 3 coats on primed brick or concrete upstands. Form two coat solid **Permaphalt** angle fillet at base.

Lay **Permaphalt** capping nominal 20mm thick in 2 X 10mm coats on primed brick or concrete base. The surface of the final coat to be rubbed with clean coarse sand mostly passing a 600 micron sieve and mostly retained on a 212 micron sieve.

Dress **Permaphalt** down into the throats of the primed internal rainwater outlets.

Dress **Permaphalt** into primed **Permatrim A GRP Edge Trim**.

White solar reflective paint to be applied to all **Permaphalt** details.

IKO permaphalt

Polymer Modified Mastic Asphalt

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PROJECT NAME & ADDRESS

PROJECT NAME &
ADDRESS

DRAWING TITLE

TWO-WAY RWO - CONCRETE KERB GRP TRIM
WARM ROOF

SPEC NO:

XXXXXX.2013

DATE:

15/10/2013

NOTES/REVISIONS

DWG NO:

D2A

DRAWN:

ME

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EAVES DRIP TO GUTTER TRADITIONAL ALL DECKS (WARM ROOF)

Remove existing guttering as necessary to allow necessary roofing works. Gutters to be replaced or renewed upon completion, according to clients instructions.

Contractor to install a tanalised timber batten, 100mm x the thickness of the insulation at all exposed edges to the eaves/gutter edges to;

- allow the thickness of the asphalt to be maintained
- protect the edge of the Insulation,
- reduce watercheck
- provide a substrate to enable proper fixing of the expanded metal lathing.

Batten to be mechanically fixed at minimum 300mm centres to the roof substrate.

Apply & securely fix a 50mm x 25mm minimum treated timber batten with splayed lower edge.

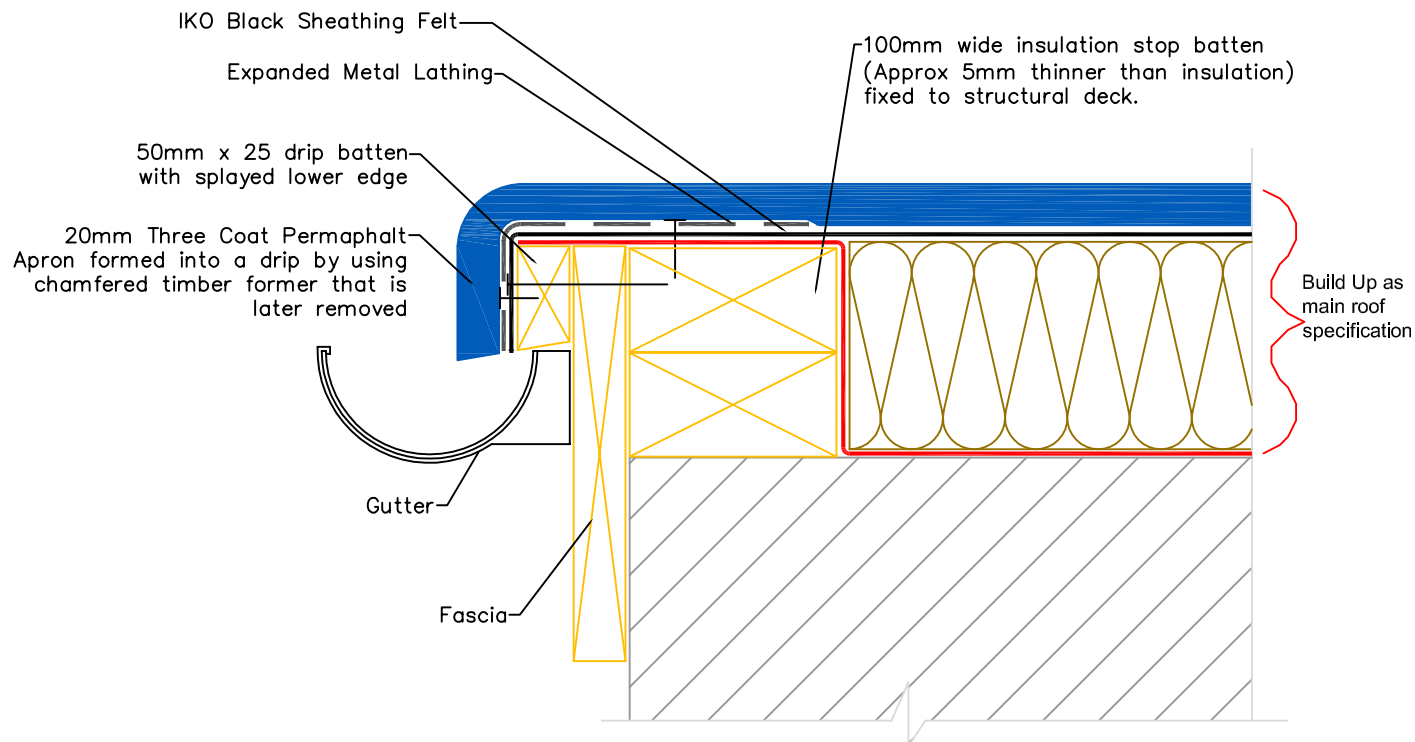
Where an additional insulation thickness is specified the perimeter needs to be raised to accommodate the new detail in accordance with IKO Technical Services recommendations. This may affect the aesthetics of the external facade, so allowance must be made for raising the existing facade & associated components, e.g. fascia boards, guttering.

Allow for inspecting, raising & replacing/apply as necessary fascia board/cladding as directed by the client's representative prior to the works commencing.

Securely fix galvanised metal lathing (EML) over black sheathing felt to the timber edge batten overlapping onto the insulation by a minimum of 40mm and down the vertical to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.45mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

Lay **Permaphalt** apron nominal 20mm thick in 3 coats on EML on black sheathing felt. Form undercut at base using a shaped timber that is removed once the **Permaphalt** has cooled.

White solar reflective paint to be applied to all permaphalt and lead flashing details.



EAVES DRIP TO GUTTER - GRP Watershed Trim
ALL DECKS (WARM ROOF)

Remove existing guttering as necessary to allow necessary roofing works. Gutters to be replaced or renewed upon completion, according to clients instructions.

Contractor to install a tanalised timber batten, 100mm x the thickness of the insulation at all exposed edges to the eaves/gutter edges to;

- allow the thickness of the asphalt to be maintained
- protect the edge of the Insulation,
- reduce watercheck
- provide a substrate to enable proper fixing of the **Permatrim Watershed Trim**.

Batten to be mechanically fixed at minimum 300mm centres to the roof substrate.

Where an additional insulation thickness is specified the perimeter needs to be raised to accommodate the new detail in accordance with IKO Technical Services recommendations. This may affect the aesthetics of the external facade, so allowance must be made for raising the existing facade & associated components, e.g. fascia boards, guttering.

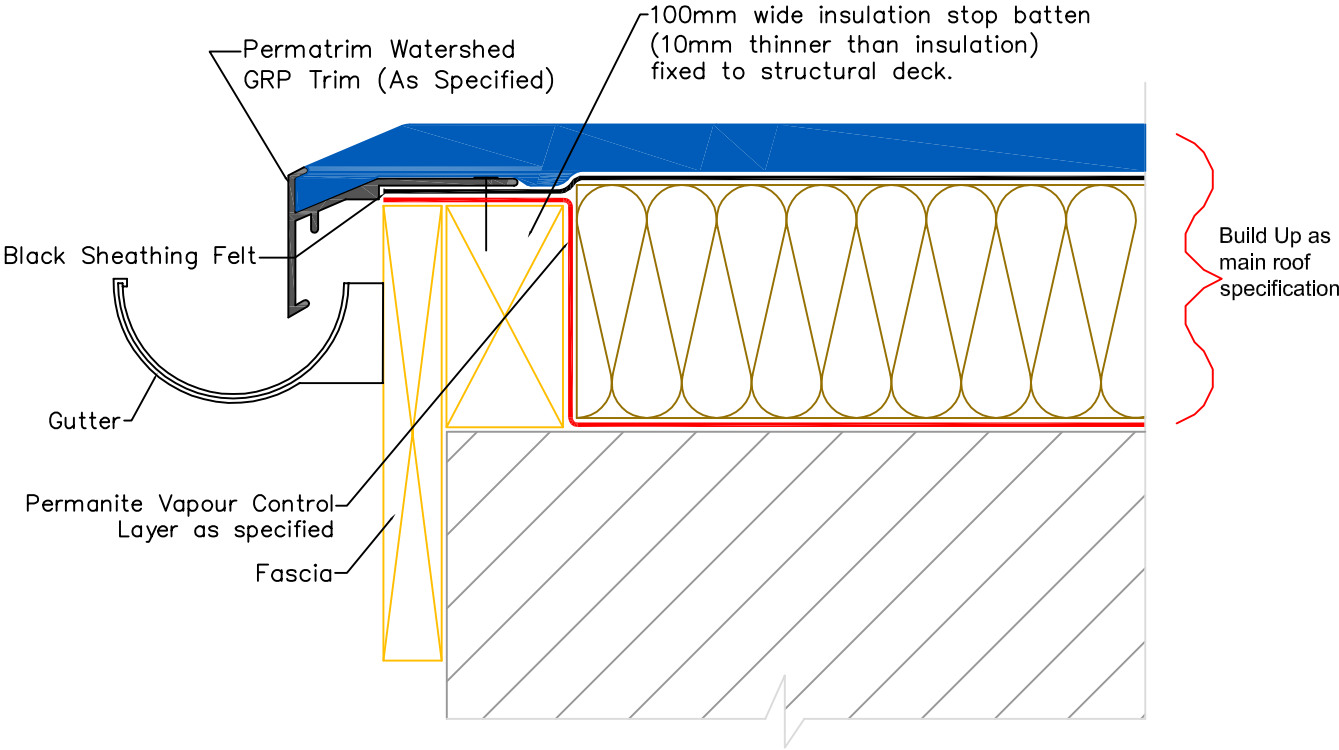
Allow for inspecting, raising & replacing/apply as necessary fascia board/cladding as directed by the client's representative prior to the works commencing.

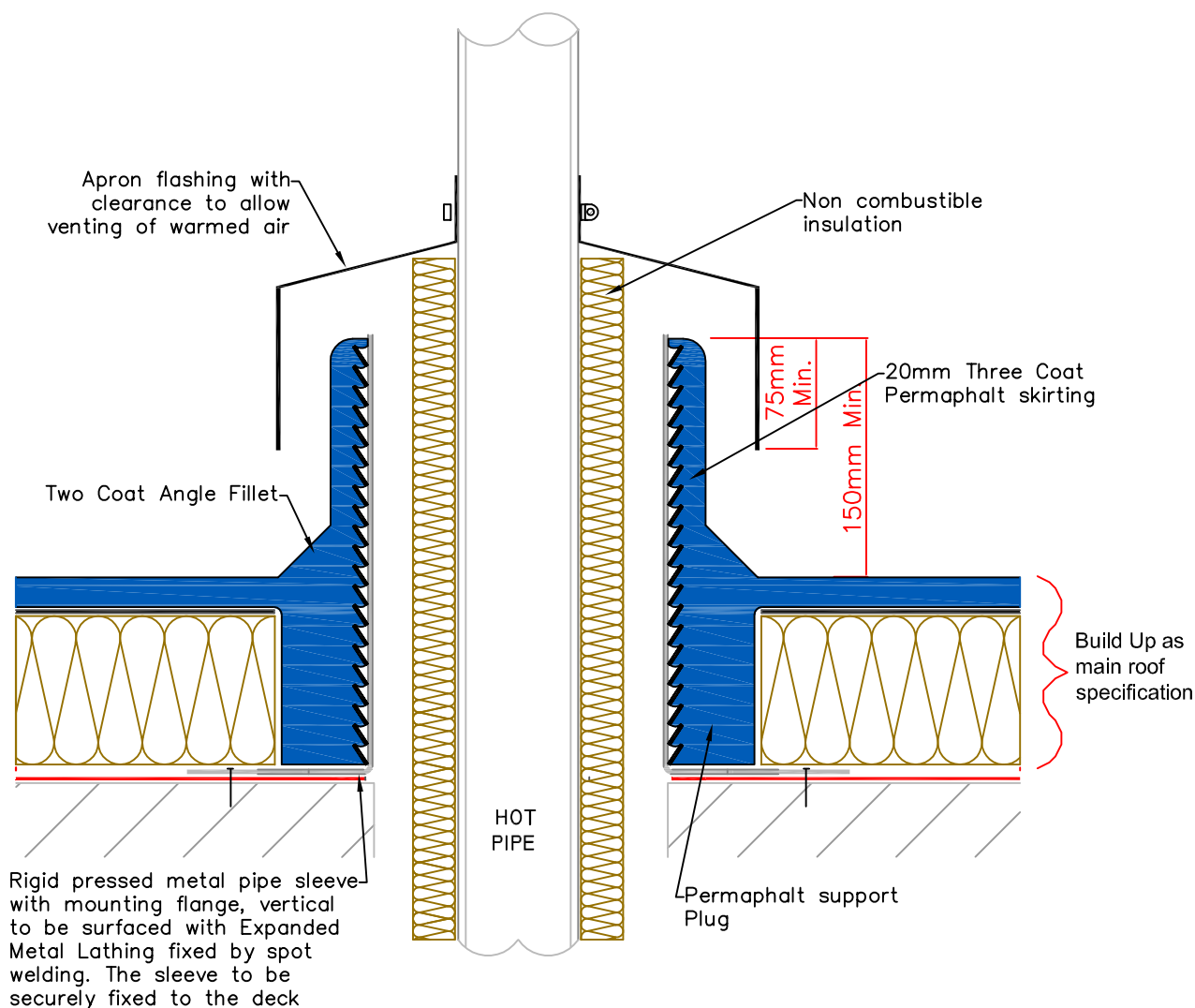
Install **Permatrim Watershed Edge Trim**. Screw fix at maximum 300mm centres, including a fixing at each end of individual lengths, with minimum 25mm long corrosion resistant fixings. Wipe clean, apply light brush application of **IKOpro High Bond Primer** to fixing arm and allow to dry.

Permatrim Watershed Edge Trims are formed from thermally inert low coefficient of expansion GRP. Designed to shed water. Units supplied in 3.0m lengths. Colour Black

Dress **Permaphalt** into primed **Permatrim Watershed GRP Edge Trim**.

White solar reflective paint to be applied to all **Permaphalt** details.





PIPE PENETRATIONS - Hot Pipe/Lead sleeve (ANY DECK WARM ROOF)

Extend pipework as necessary to achieve a minimum upstand height of 150mm above the finished roof level. Allow for non combustible insulation to protect the waterproofing from excessive heat. Allow for a continuous 25mm air gap to allow hot air to be vented away.

Securely fix rigid pressed metal sleeve to the substrate with independent apron flashing to pipe. The metal sleeve to be prepared by the minimum code 5 and give a minimum upstand height of 150mm, above the finished roof surface. Wire brush, apply light brush application of **IKOpro High Bond Primer** and allow to dry.

Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm.

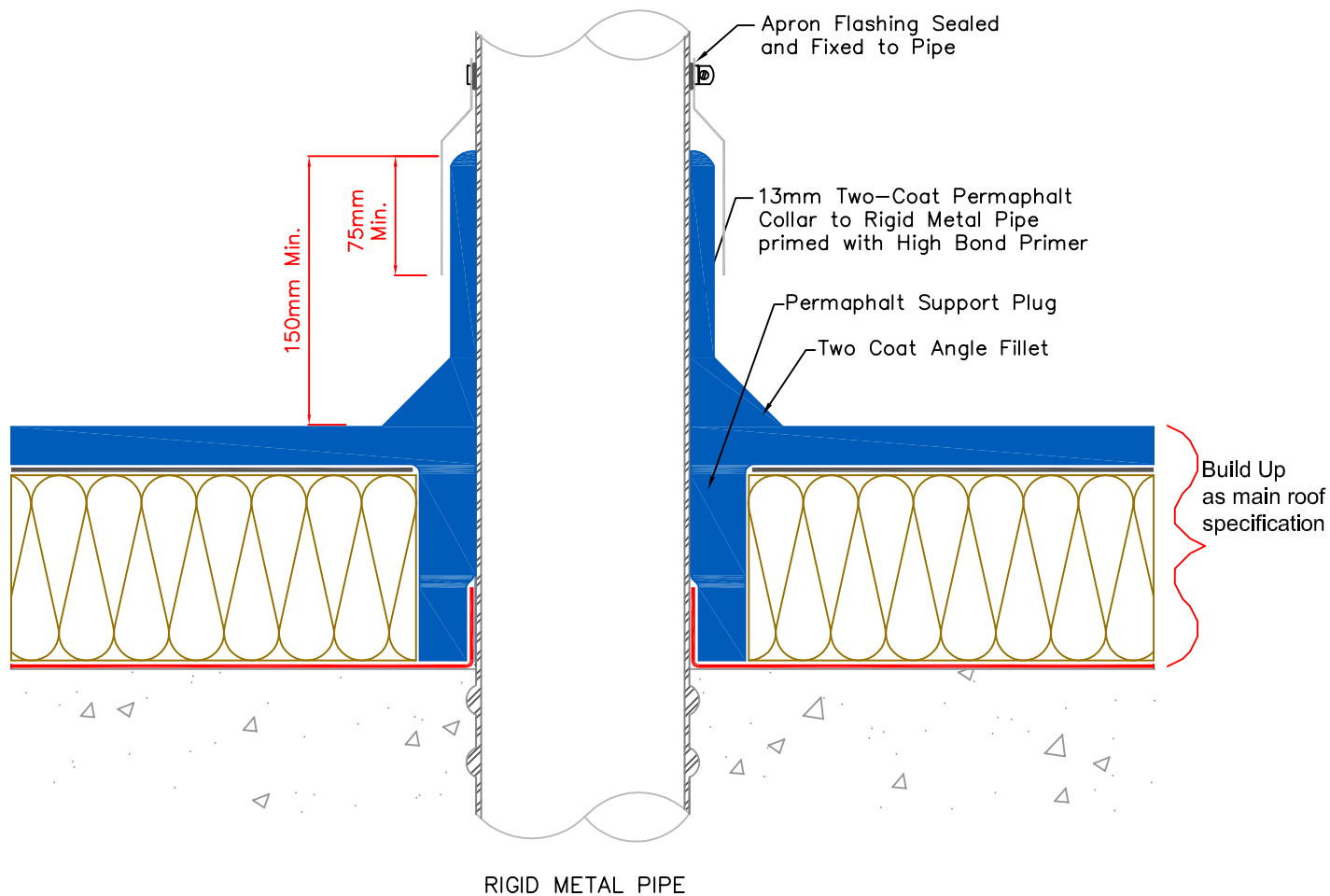
Lay **Permaphalt** collar on EML on primed pipe sleeve nominal 20mm thick in 3 coats. Form 2 coat solid **Permaphalt** angle fillet at base. The **Permaphalt** collar should extend at least 150mm above finished roof level and the top edge protected by an independent apron flashing fixed to pipe.

Solar reflective paint to be applied to all **Permaphalt** details.

If the hot pipe is a flue then the installation must always comply with Approved Document J (Combustion appliances) Part 3 of the Building Regulations 2000. This is especially important if the deck is timber and therefore combustible.

For following is for guidance only, confirmation of the exact specification should be confirmed by a competent person.

Hot pipes must have a rigid pressed metal independent sleeve with a separating air space or/and insulation between the pipe and pipe. A 25mm gap is usually adequate for pipe temperatures up to approximately 100°C. Above this temperature it is necessary to add insulation. As a rough guide, a 25mm gap and 50mm mineral wool insulation will be needed for temperatures up to 200°C. Large industrial flues will require individual design by a competent person.



COLLAR TO COLD RIGID METAL PIPE (CONCRETE DECK WARM ROOF)

Extend pipework as necessary to achieve a minimum upstand height 150mm above the finished roof level.

If the pipe is likely to move relative to the deck, then a Lead Sleeve must be specified to isolate the movement as in Detail F3.

Wire brush metal pipe then apply light brush application of **IKOpro High Bond Primer** and allow to dry.

Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm.

Lay **Permaphalt** collar to primed pipe nominal 13mm thick in 2 coats. Form 2 coat solid **Permaphalt** angle fillet at base. The **Permaphalt** collar should extend at least 150mm above finished roof level and the top edge protected by an independent apron flashing fixed to pipe.

White solar reflective paint to be applied to all **Permaphalt** details.

ASPHALT TO METAL POST/HANDRAIL BALUSTRADE
CONCRETE DECKS (WARM ROOF)

Wire brush and prime all metal posts/handrail stanchions etc with **IKOpro High Bond Primer** and allow to dry.

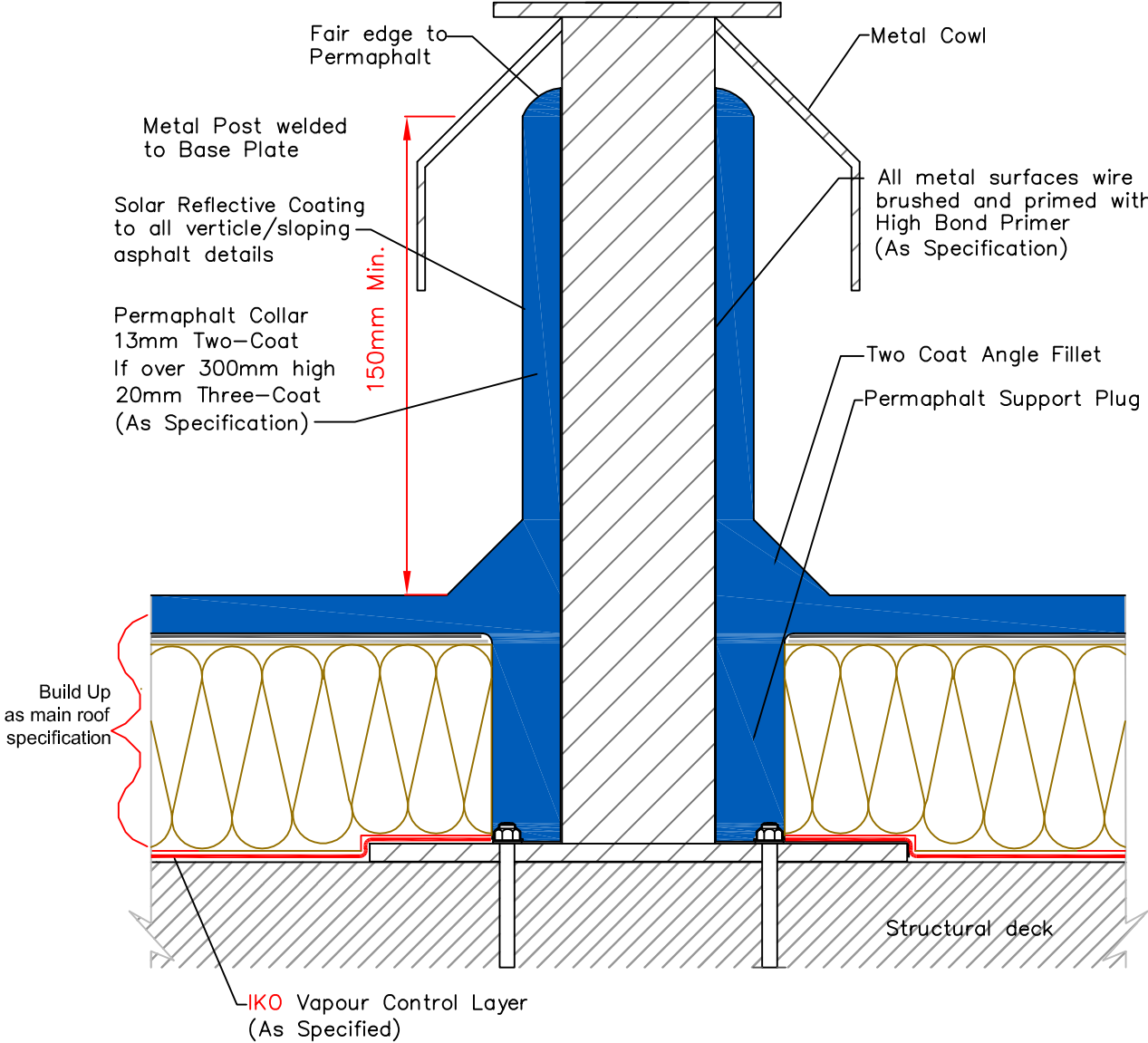
the Vapour Control Layer should be sealed to the base plate or alternatively can be laid prior the the base plate fixing.

Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm.

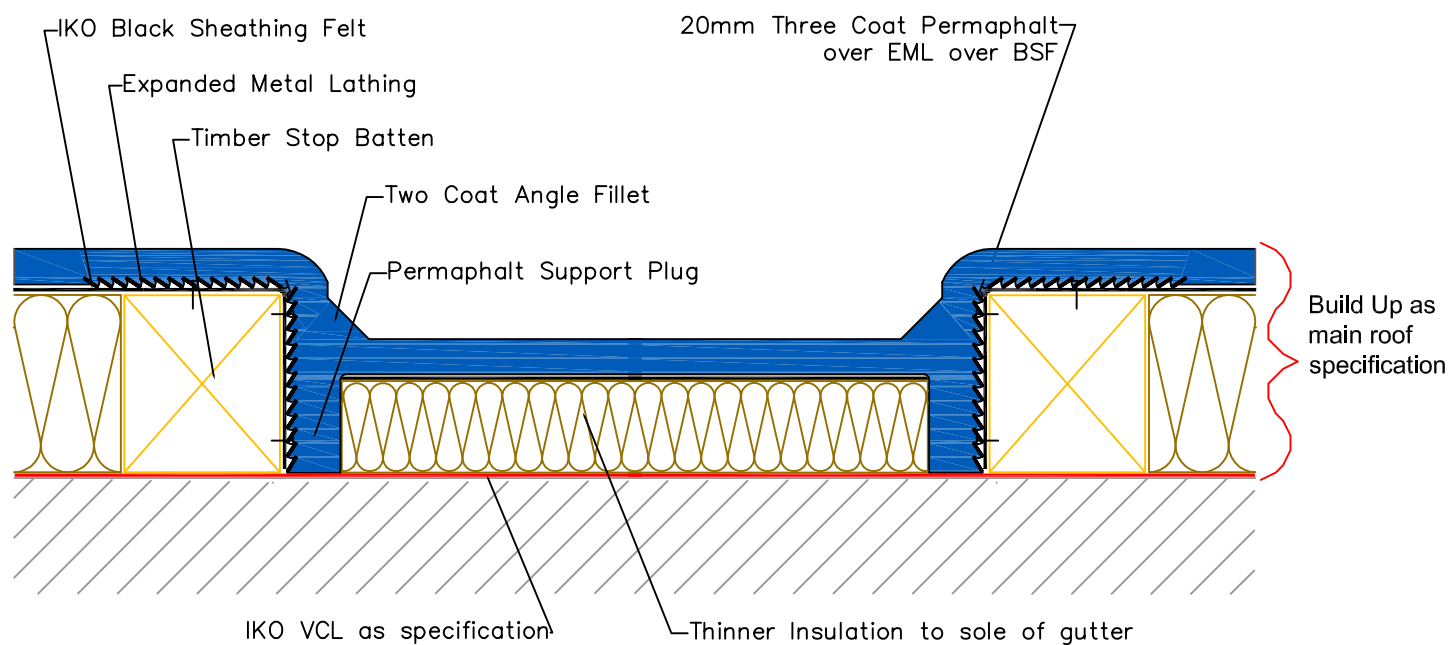
Lay **Permaphalt** collar to primed stanchion nominal 13mm thick in 2 coats. Form 2 coat solid **Permaphalt** angle fillet at base. The **Permaphalt** collar should extend at least 150mm above finished roof level and the top edge protected by an independent apron flashing fixed to post/balustrade.

Apply white solar reflective paint to all **Permaphalt** details in accordance with the suppliers instructions.

N.B. Completed waterproofing details should always be installed so as to achieve a height of 150mm minimum above the finished roof level.



 Polymer Modified Mastic Asphalt TECHNICAL SERVICES PROSPECT QUARRY, GRANGEMILL, MATLOCK, DERBYSHIRE. DE4 4BW Tel: 01257 256888 Internet: www.ikogroup.co.uk Email: technical@ikogroup.co.uk	PROJECT NAME & ADDRESS PROJECT NAME & ADDRESS	DRAWING TITLE METAL POST/BALUSTRADE_CONC_WARM			DWG No: F7A	Copyright Reserved - PLEASE NOTE THAT THIS DRAWING & THE COPYRIGHT THEREIN IS THE PROPERTY OF IKO & IS ISSUED ON THE UNDERSTANDING THAT THE DRAWING OR ANY DETAIL THEREOF WILL NOT BE DIVULGED TO A THIRD PARTY UNLESS WRITTEN PERMISSION IS FIRST OBTAINED FROM IKO TECHNICAL SERVICES DEPARTMENT. THE DRAWING IS VALID ONLY WHEN APPROVED BY THE ARCHITECT/ CONTRACTOR CONCERNED. SHOULD IT NOT BE POSSIBLE TO REPRODUCE THE DETAIL SHOWN, TECHNICAL SERVICES SHOULD BE NOTIFIED IMMEDIATELY. NB: THIS DRAWING HAS BEEN DRAWN USING THE INFORMATION PROVIDED AT SURVEY STAGE. IF THERE ARE ANY AMENDMENTS TO THE DRAWING, IKO TECHNICAL SERVICES MUST BE CONTACTED IMMEDIATELY. THIS DRAWING IS FOR INDICATIVE PURPOSES ONLY & MUST NOT BE USED FOR SCALING/MEASUREMENT PURPOSES.
		SPEC No: XXXXXX.2014	DATE: 07/04/2014	NOTES/REVISIONS	DRAWN: ME	



INTERNAL GUTTER DETAIL-(Warm Roof_within insulation)

Contractor to install a tanalised timber batten, 100mm x the thickness of the Insulation at all changes in level/gutter edges to;

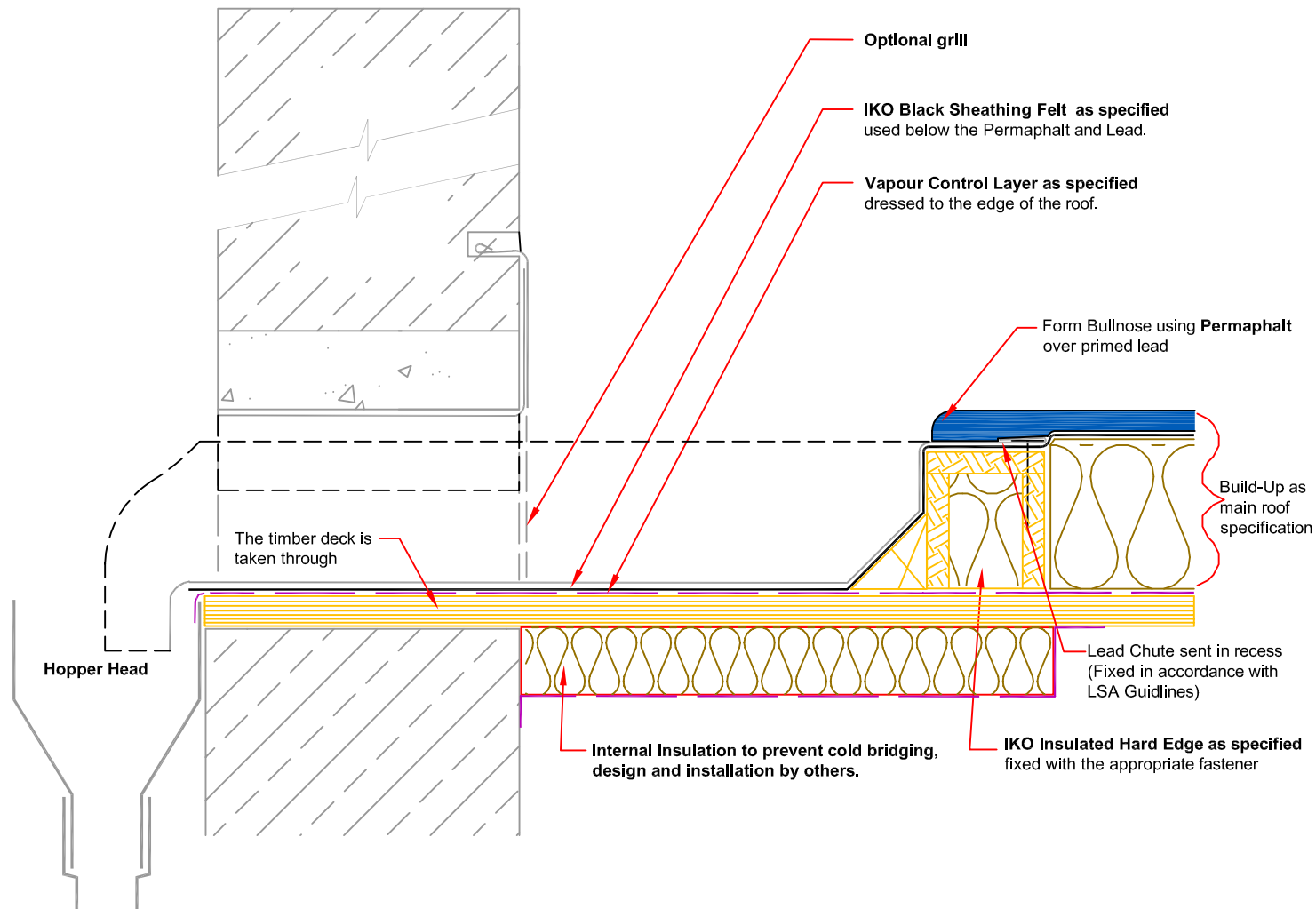
- allow the thickness of the asphalt to be maintained
- protect the edge of the insulation,
- reduce watercheck
- provide a substrate to enable proper fixing of the expanded metal lathing.

Batten to be mechanically fixed at minimum 300mm centres to the roof substrate.

Securely fix galvanised metal lathing (EML) over black sheathing felt to the timber edge batten overlapping onto the insulation by a minimum of 40mm and down the vertical to receive **Permaphalt**. EML to be not less than 10mm short way of mesh and not less than 0.45mm thick and be fixed with large headed galvanised clout nails or staples at maximum 150mm centres in both directions.

Insulation Boards should be set back from all abutments to allow for a solid **Permaphalt** support plug. The width of the support plug should be at least 25mm.

Lay **Permaphalt** nominal 20mm thick in 3 coats on EML on **Black Sheathing Felt**. Form 2 coat solid **Permaphalt** angle fillet at base.



LEAD CHUTE OUTLET TIMBER DECKS (WARM ROOF)

Inspect & carry out any maintenance work as necessary & thoroughly clean all surfaces. Enlarge openings as necessary to ensure the opening is not restricted by the application of the new waterproofing system.

When a lead chute is to be installed at the edge of the insulation then the contractor to install an IKO Insulated Hard edge approx 10mm less than the thickness of the insulation at all exposed edges to the chute/gutter edges to:

- allow the thickness of the asphalt to be maintained
- protect the edge of the insulation,
- reduce watercheck
- provide a substrate to enable proper fixing of the lead.

Fit fillet piece to ease lead corner

Hard edge to be mechanically fixed at minimum 300mm centres to the roof substrate to create a square sump (300mm Min).

The lead must be welted at the back and the recess in the substructure must allow for a full thickness of **Permaphalt** over the welt.

The lead must be specified and fitted strictly in accordance with the guidance issued by the Lead Sheet Association.

The lead surfaces to receive **Permaphalt** must be primed with **IKO High Bond Primer** in accordance with the instructions and allowed to fully dry.

Form **Permaphalt** bullnose edge to primed lead chute.

Solar reflective paint to be applied to all **Permaphalt** and lead flashing details.