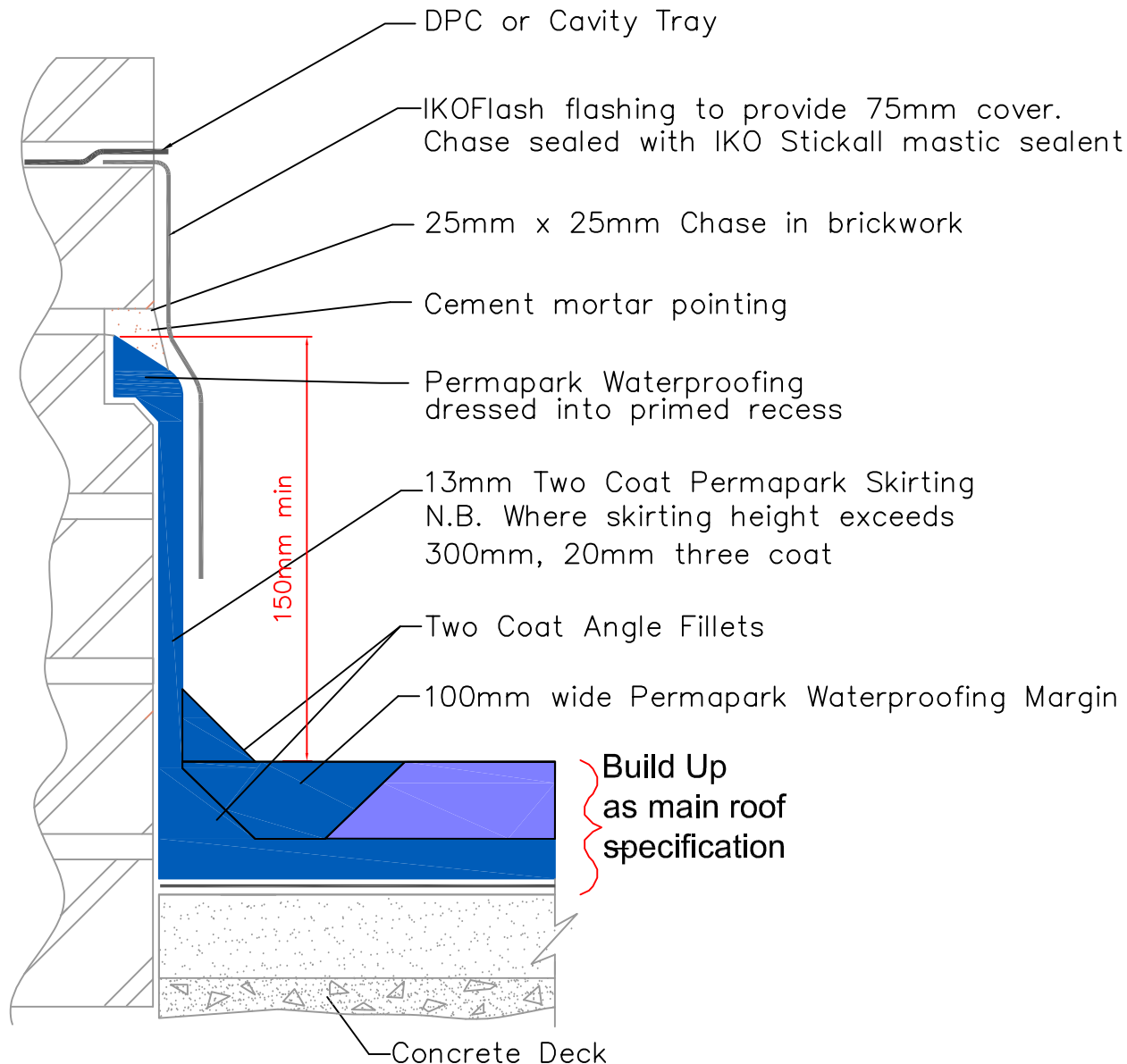




SKIRTING TO UPSTAND - (Flashing) (PERMAPARK VEHICLE DECK COLD ROOF)

Inspect & carry out any necessary maintenance work to the upstand. i.e; repairing frost damage.

Chase for **Permapark Waterproofing** should comply with BS8000 Pt 3 Clause 5.6.10 and BS 8218:1998 Clause 6.14. A 25mm x 25mm chase to be cut into the concrete at a minimum height of 150mm above the finished level of roofing. The lower edge of the chase should be splayed in order to maintain the full thickness of asphalt at this point.

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.

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

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

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

Dress **Permapark Waterproofing** into the primed chase provided maintaining full thickness, point as soon as possible with low shrinkage cement/sand mortar containing a suitable polymer admixture such as styrene butadiene rubber or acrylic.

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.

Permapark Paving should terminate 100mm approximately from all abutments and the margin infilled with **Permapark Waterproofing**. Form 2 coat solid **Permapark Waterproofing** angle fillet at junction with skirting.

White solar reflective paint to be applied to all exposed **Permapark Waterproofing** detailing.

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



Polymer Modified Asphalt Paving

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PROJECT NAME & ADDRESS

HARDSHAW SHOPPING CENTRE,
SERVICE DECK,
ST HELENS

DRAWING TITLE

PERMAPARK SKIRTING TO UPSTAND (FLASHING) - COLD

SPEC NO:

01-08023

DATE:

15/04/2014

NOTES/REVISIONS

DWG No:

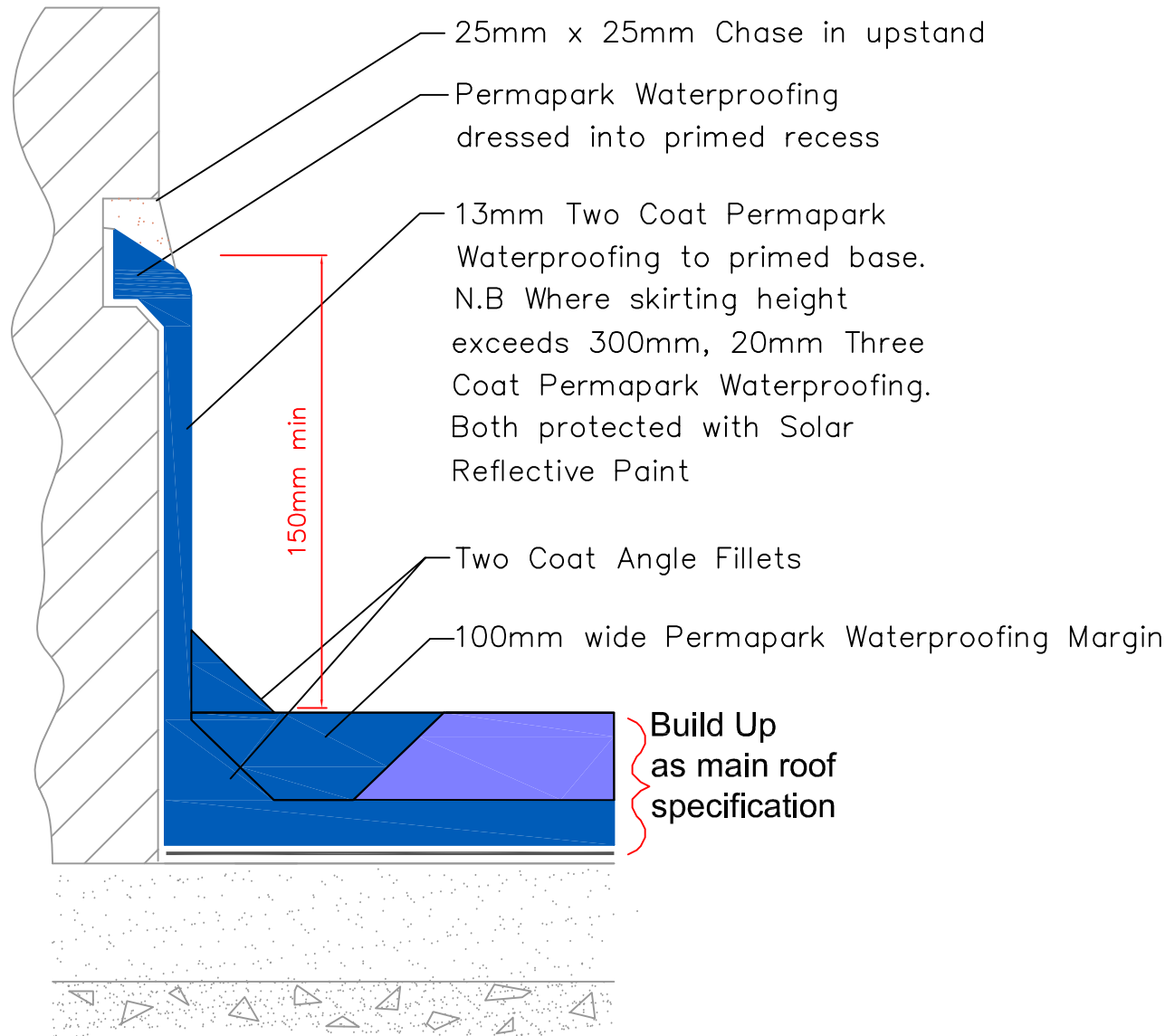
B2

DRAWN:

ME

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SKIRTING TO UPSTAND - (No Flashing) (PERMAPARK VEHICLE DECK COLD ROOF)

Inspect & carry out any necessary maintenance work to the upstand. i.e; repairing frost damage.

Chase for **Permapark Waterproofing** should comply with BS8000 Pt 3 Clause 5.6.10 and BS 8218:1998 Clause 6.14. A 25mm x 25mm chase to be cut into the concrete at a minimum height of 150mm above the finished level of roofing. The lower edge of the chase should be splayed in order to maintain the full thickness of asphalt at this point.

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.

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

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

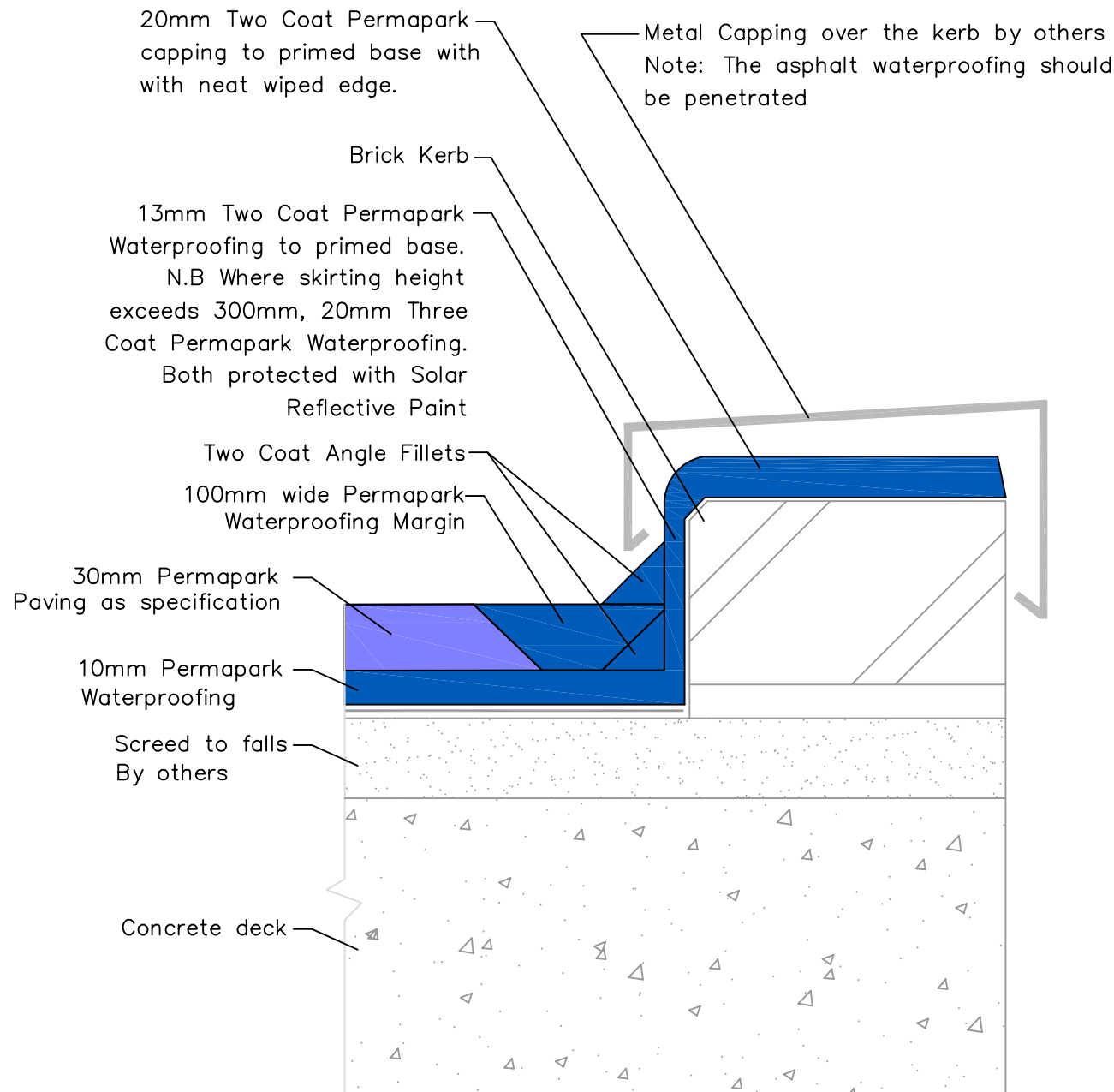
Lay **Permapark Waterproofing** nominal 20mm thick in 3 coats on primed brick or concrete upstands exceeding 300mm high. Form 2 coat solid **Permapark Waterproofing** angle fillet at base.

Dress **Permapark Waterproofing** into the primed chase provided maintaining full thickness, point as soon as possible with low shrinkage cement/sand mortar containing a suitable polymer admixture such as styrene butadiene rubber or acrylic.

Permapark Paving should terminate 100mm approximately from all abutments and the margin infilled with **Permapark Waterproofing**. Form 2 coat solid **Permapark Waterproofing** angle fillet at junction with skirting.

White solar reflective paint to be applied to all exposed **Permapark Waterproofing** detailing.

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 BRICK KERB - (METAL CAPPING) (PERMAPARK VEHICLE DECK COLD ROOF)

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.

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

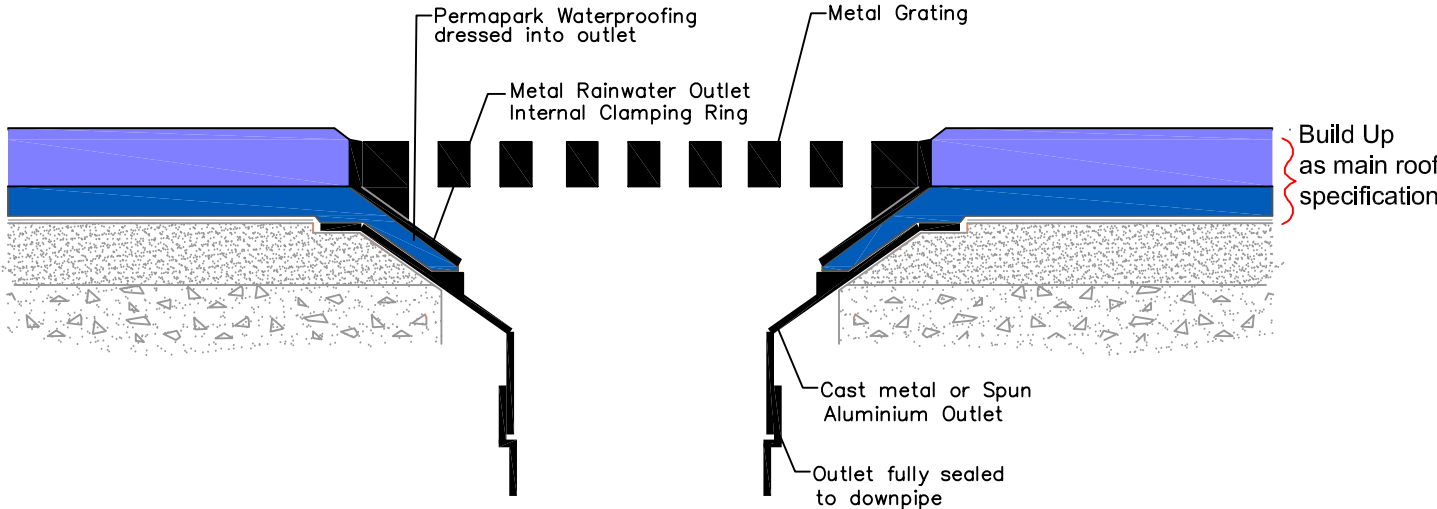
Lay **Permapark Waterproofing** nominal 13mm thick in 2 coats on primed brick or concrete kerb not exceeding 300mm high. Form 2 coat solid **Permapark Waterproofing** angle fillet at base.

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

Lay **Permapark Waterproofing** capping nominal 20mm thick in 2 x 10mm coats on primed brick or concrete base. Wipe the still warm **Permapark Waterproofing** to give a neat external edge.

Permapark Paving should terminate 100mm approximately from all abutments and the margin infilled with **Permapark Waterproofing**. Form 2 coat solid **Permapark Waterproofing** angle fillet at junction with skirting.

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



PERMAPARK RAIN WATER OUTLET

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

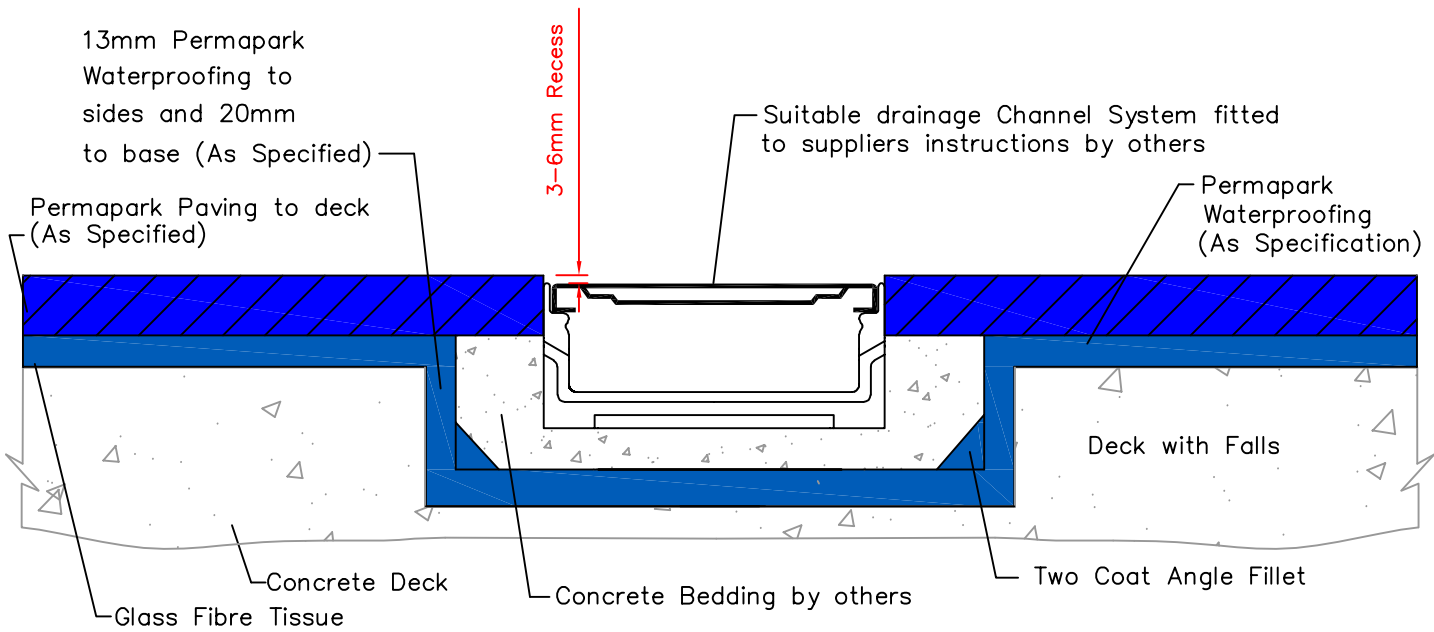
OR
Wire brush existing sound rainwater outlets, apply light brush application of **IKOpro High Bond Primer** and allow to dry.

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

 Polymer Modified Asphalt Paving 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 XXXXXXXXX	DRAWING TITLE PERMAPARK DETAIL - INTERNAL RAIN WATER OUTLET			DWG No: DI	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: XX	DATE: 15/01/2014	NOTES/REVISIONS	DRAWN: ME	

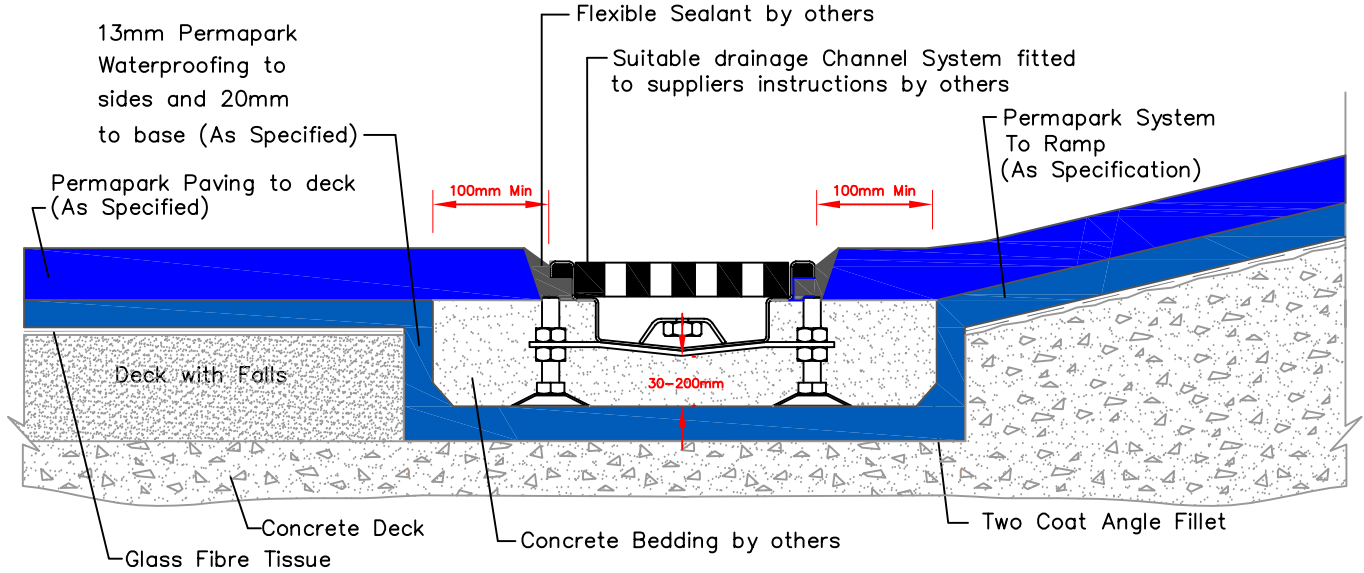
PERMAPARK TYPICAL LINEAR DRAINAGE CHANNEL
TO PODIUM CAR PARK DECK

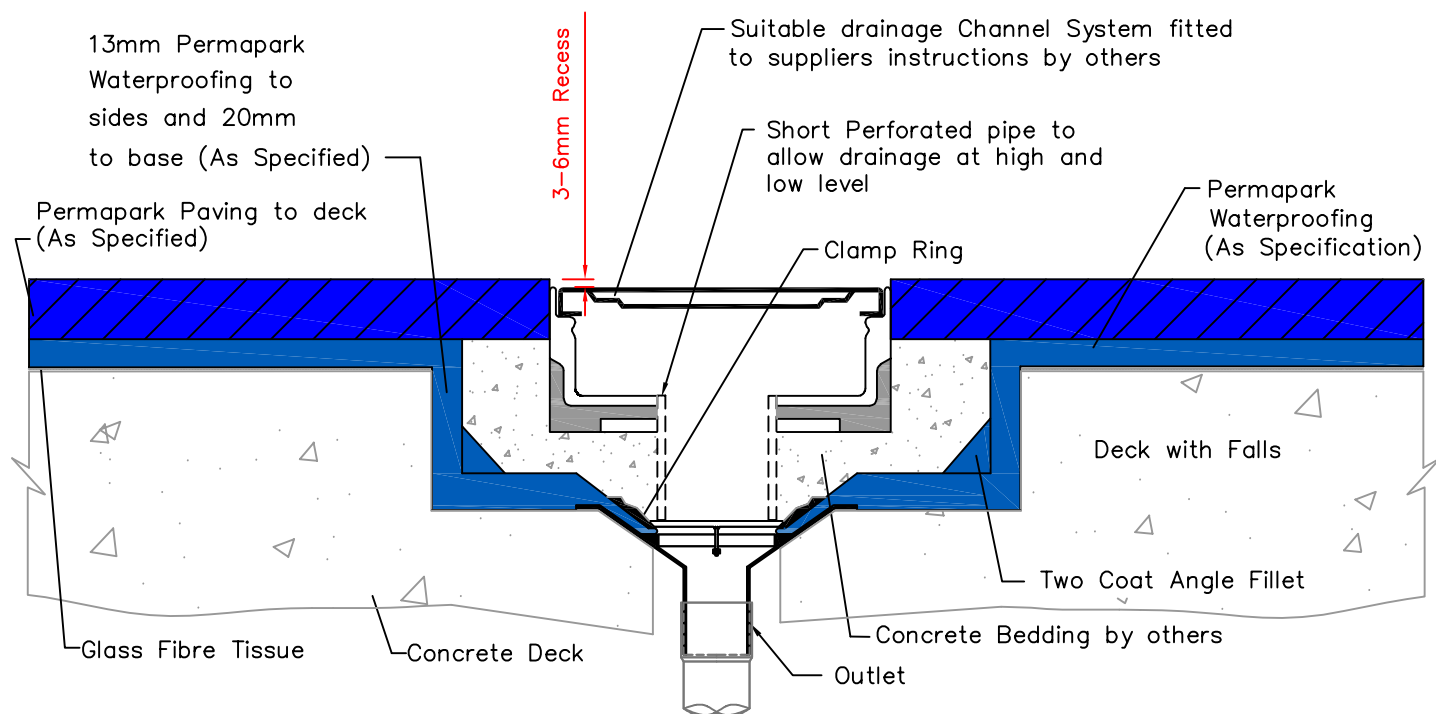
Drainage channel must be suitable for the anticipated traffic fitted strictly in accordance with the suppliers instructions, with grills, securely set in concrete so as to be flush minus nominal 3mm. They must be secure, fully sealed and correctly connected to the down pipes.



PERMAPARK TYPICAL LINEAR DRAINAGE CHANNEL TO
PODIUM CAR PARK DECK

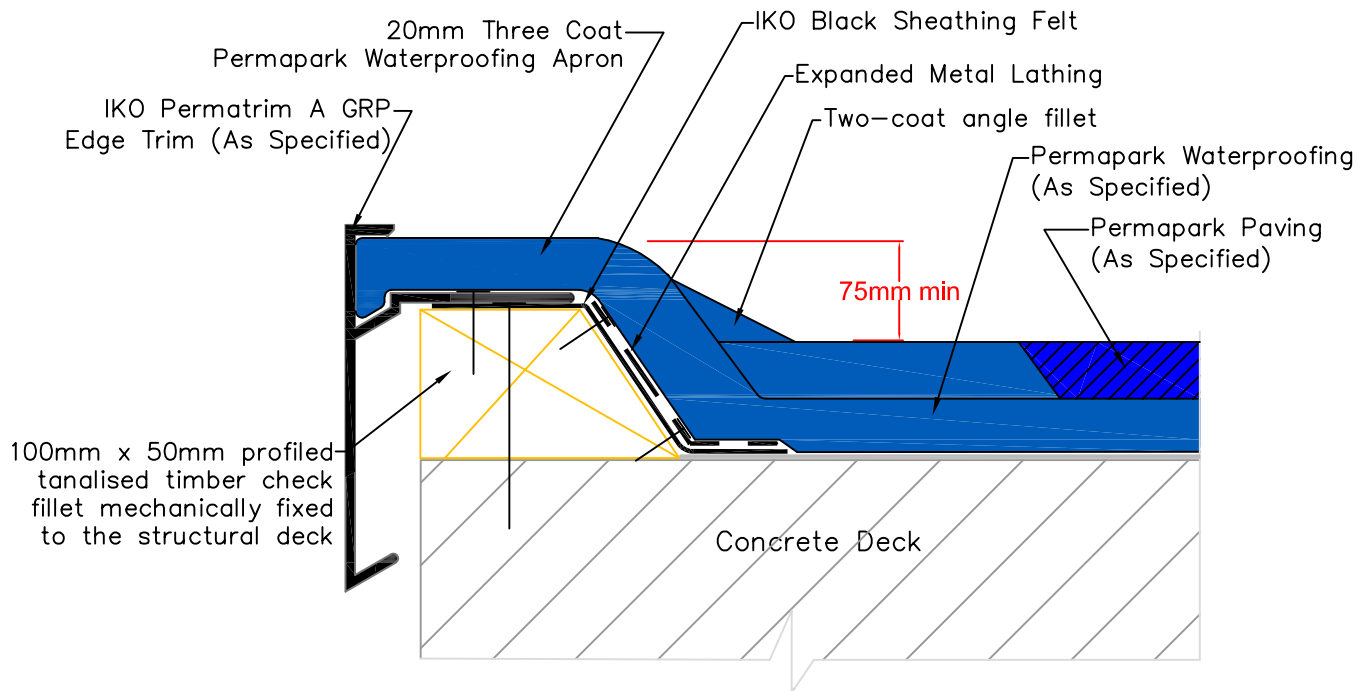
Drainage channel must be compatible with mastlc asphalt and the anticipated loading, fitted strictly in accordance with the suppliers Instructions, with grills, securely set In concrete so as to be flush and sealed to the **PERMAPARK** with a hot poured flexible rubberised compnd and correctly connected to the down pipes.





PERMAPARK TYPICAL LINEAR DRAINAGE CHANNEL TO PODIUM CAR PARK DECK

Drainage channel must be suitable for the anticipated traffic fitted strictly in accordance with the suppliers instructions, with grills, securely set in concrete so as to be flush minus nominal 3mm. They must be secure, fully sealed and correctly connected to the down pipes so as to allow drainage from the surface and the asphalt layer.



TIMBER CHECK KERB GRP TRIM-

Surfaces to which the waterproofing system is to be applied to must be clean, dry & sound.

Raise open perimeter check kerb, using treated timber, to give an upstand height of minimum 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 **Permapark Waterproofing**. 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.

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 GRP Trim with **IKOpro High Bond Primer** and allow to dry. Ensure that primer is continued in to any recesses.

Dress **Permapark Waterproofing** into primed **Permatrim A GRP Edge Trim**.

Complete the **Permapark Wateterproofing** and **Permapark Paving** as the specification allowing for a 100mm wide infill of **Permapark Waterproofing** to details.

Warm and clean flat and form solid **Permapark Waterproofing** water check at roof perimeter nominally 75mm x 40mm thick in 3-4 coats.

White solar reflective paint to be applied to all **Permapark Waterproofing** details.



IKO PLC Technical Services, Prospect Quarry,
Grangemill, Matlock, Derbyshire, DE4 4BW
Tel: 01257 256888 Internet: www.ikogroup.co.uk
Email: technical@iko.com

PROJECT NAME & ADDRESS
PROJECT NAME &
ADDRESS

DRAWING TITLE
PERMAPARK TIMBER CHECK KERB - GRP TRIM

SPEC NO:
XXXXXX.2017

DATE:
18/07/2017

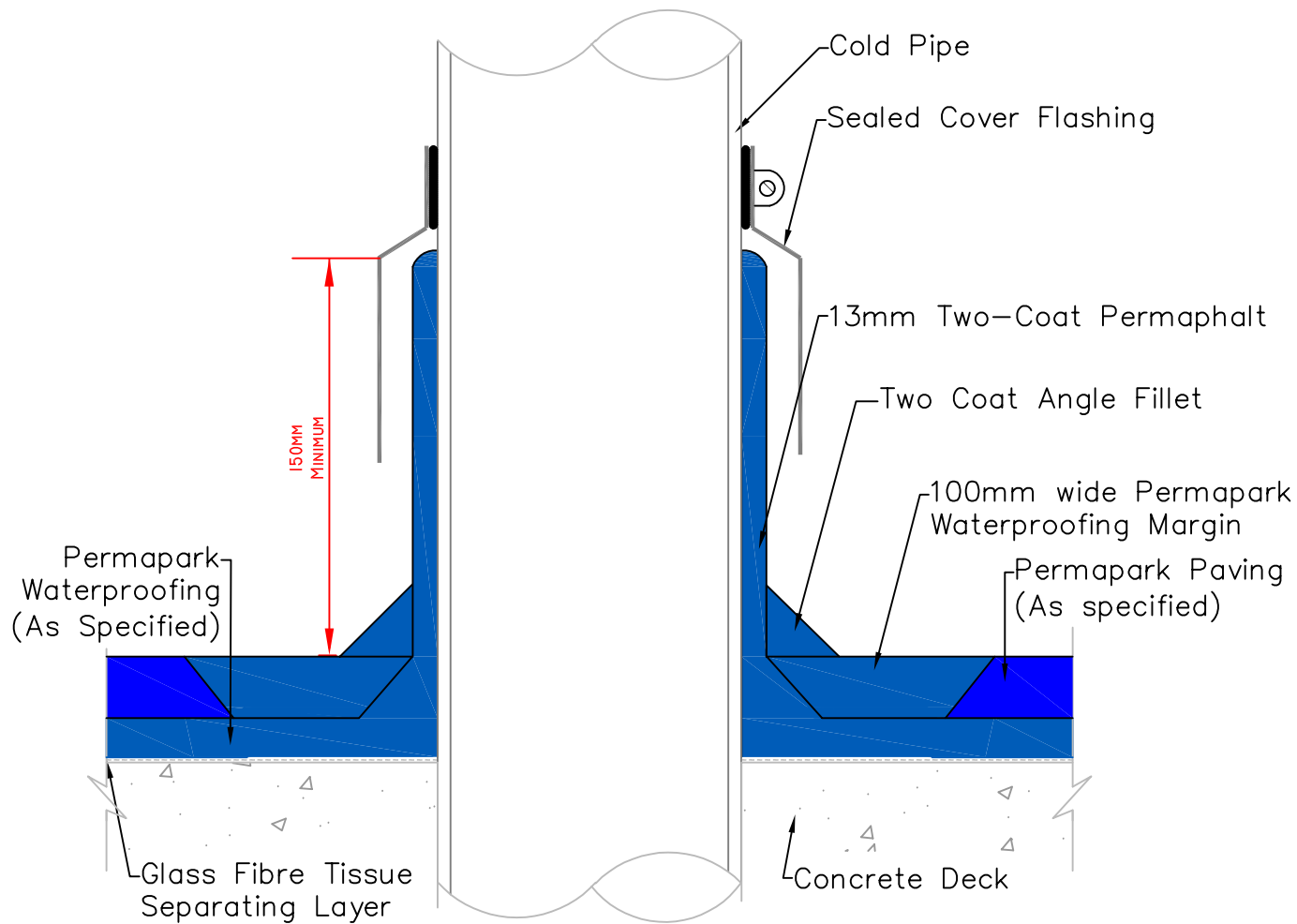
NOTES/REVISIONS

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E2BT

DRAWN:
ME

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RIGID METAL PIPE

PERMAPARK PIPE PENETRATIONS - Cold Rigid Metal Pipe

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 securely fix lead sleeve to substrate with independent apron flashing to pipe. Contact Technical Services for the detail.

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

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

White solar reflective paint to be applied to all exposed **Permaphark Waterproofing**.



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PROJECT NAME & ADDRESS

XXXX

DRAWING TITLE

PIPE PENETRATIONS - COLD RIGID METAL PIPE

SPEC NO:

XX

DATE:

06/03/2018

NOTES/REVISIONS

DWG No:

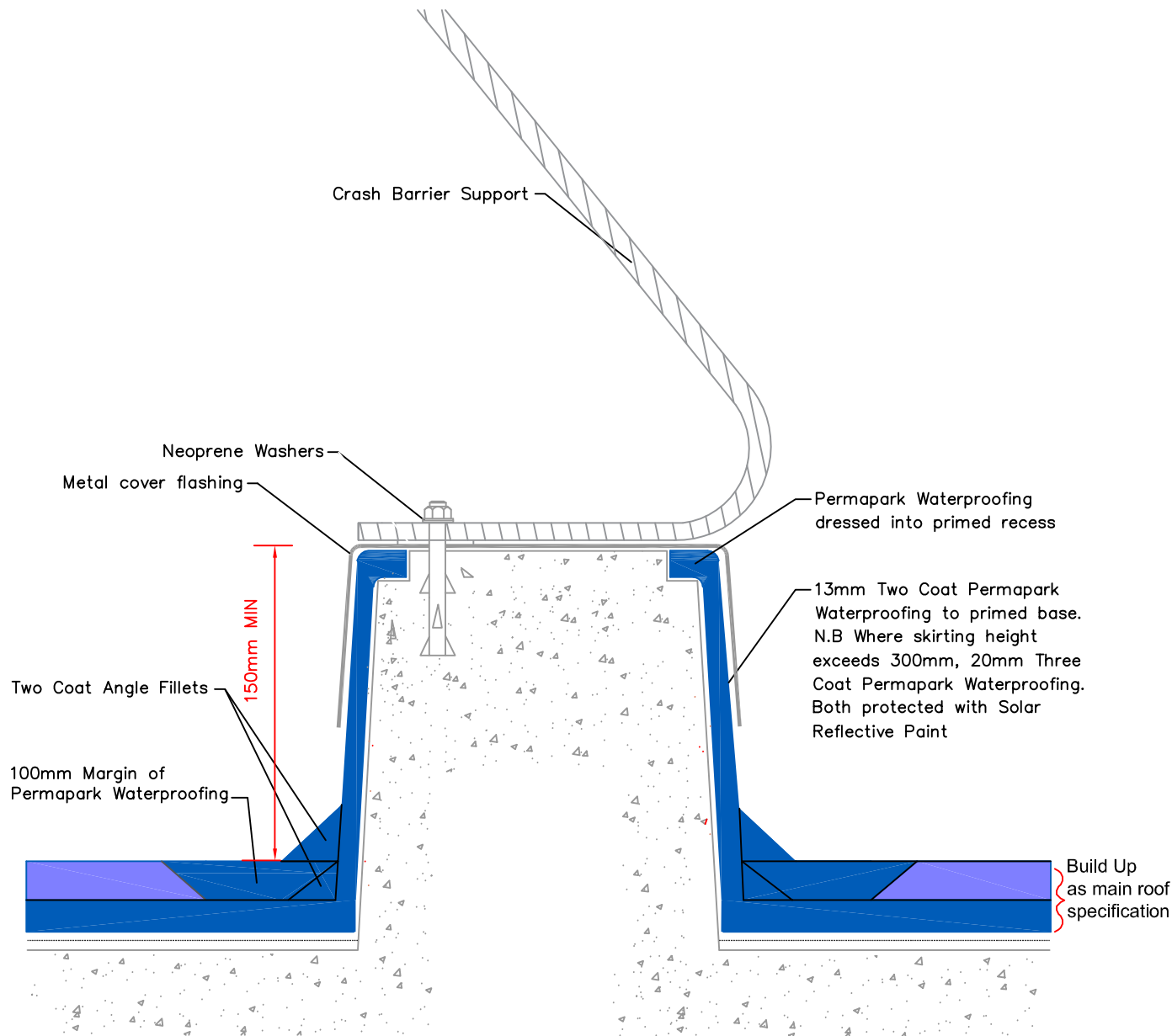
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ME

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PLINTH DETAIL - Crash Barriers & Plant (PERMAPARK VEHICLE DECK ROOF)

Cast a secure plinth designed in collaboration with a structural engineer, to give a minimum upstand height of 150mm above the finished surfacing level.

Form or cut recess.

Remove all dust and dirt from the recess, surface must be clean and dry.

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

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

Dress **Permapark Waterproofing** into the primed recess, maintaining full thickness.

Permapark Paving should terminate 100mm approximately from all abutments and the margin infilled with **Permapark Waterproofing**. Form 2 coat solid **Permapark Waterproofing** angle fillet at junction with skirting.

Provide the capping system with associated fasteners with sealing washers. Details to be confirmed. Generally leave a minimum 3mm air gap between any metal flashing and **Permapark** detail.

White solar reflective paint to be applied to all **Permapark Waterproofing** details and metal capping/flashing.

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



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PROJECT NAME & ADDRESS
XXXXXXXX

DRAWING TITLE
PERMAPARK PLINTH DETAIL Z CRASH BARRIER - COLD

SPEC NO:
XX

DATE:
08/05/2018

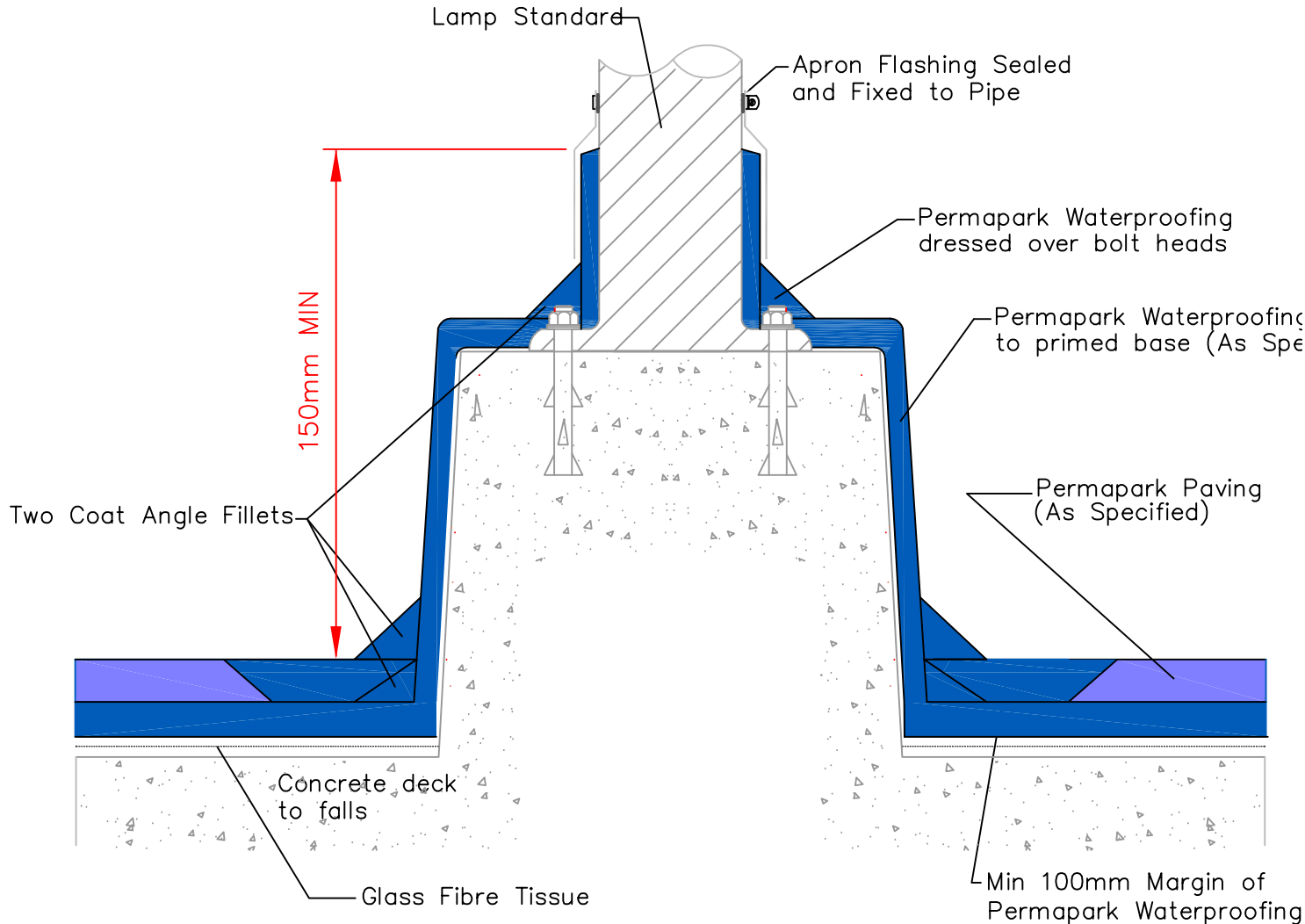
NOTES/REVISIONS
REVISION-CHANGED CRASH
BARRIER TO Z

DWG No:
H2_002

DRAWN:
ME
JDA

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PERMAPARK DETAILING TO ROUND POST OVER PLINTH

Remove all paint to post and base. Wire Brush all metal surfaces. Below the Asphalt prime all metal surfaces with **IKOpro High Bond Primer** and allow to dry.

Prime Concrete Plinth with **IKOpro High Bond Primer** and allow to dry.

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

Increase the thickness of the **Permapark Waterproofing** over the Bolt head/Fasteners to give minimum 20mm cover. Form angle fillet to complete the detail.

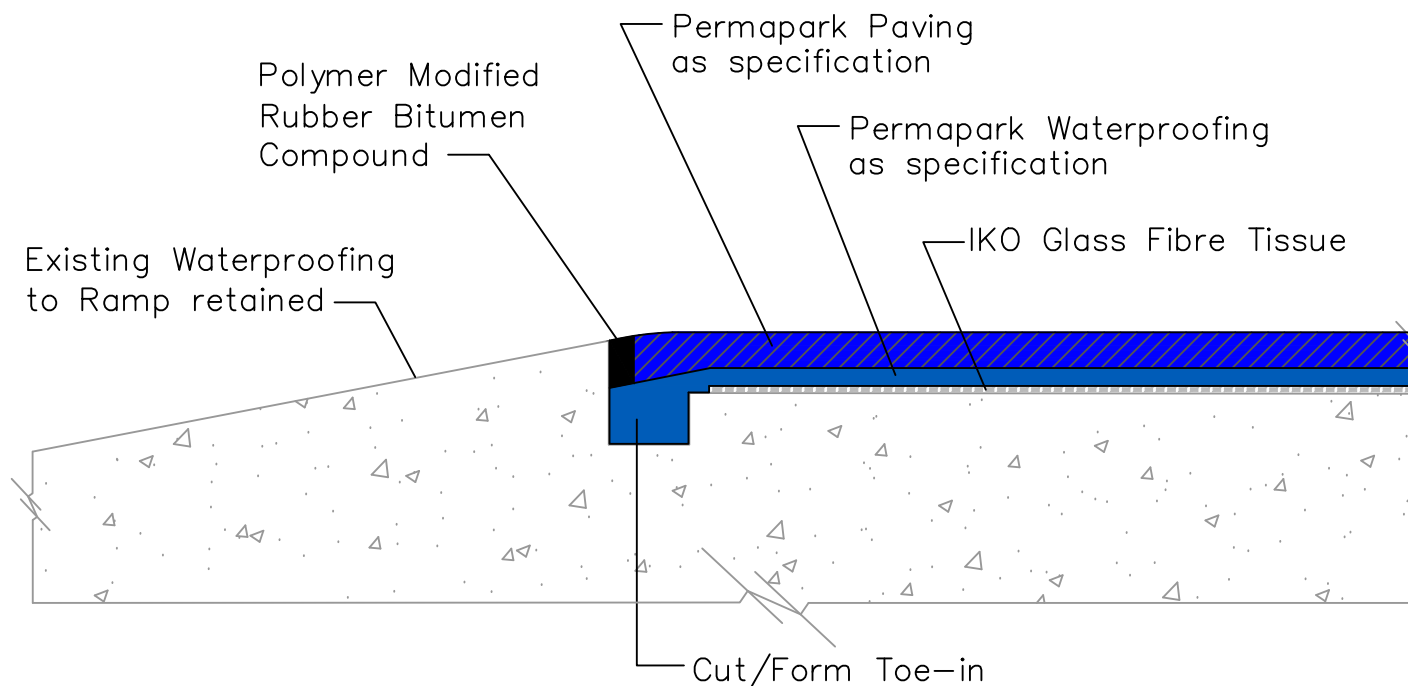
Lay **Permapark Waterproofing** nominal 13mm thick in 2 coats on primed brick or concrete upstands not exceeding 300mm high. If over 300mm high then lay **Permapark Waterproofing** nominal 20mm thick in 3 coats on primed brick or concrete upstands. Form two coat solid **Permapark Waterproofing** angle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

Permapark Paving should terminate 100mm approximately from all abutments and the margin infilled with **Permapark Waterproofing**. Form 2 coat solid **Permapark Waterproofing** angle fillet at junction with skirting.

Apply white solar reflective paint to all **Permapark** details.

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

PERMAPARK DETAIL- MASTIC ASPHALT PAVING TERMINATION TO TOP OF RAMP



Polymer Modified Asphalt Paving

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PROJECT NAME & ADDRESS
MASTIC ASPHALT PAVING TOE IN
TERMINATION TO TOP OF RAMP

DRAWING TITLE
PERMAPARK DETAIL-MASTIC ASPHALT PAVING TERMINATION TO TOP OF RAMP

SPEC No:

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DATE:

29/06/2020

NOTES/REVISIONS

DWG No:
J3 TOE IN
TOP RAMP

DRAWN:
ME

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STANDARD PROPRIETARY EXPANSION JOINT SYTEM

Where the design calls for a controlled gap in the structural slab, a proprietary expansion joint system must be included through the finishes.

The work should be billed as a separate item requiring specialist design and installation.

