

Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S**

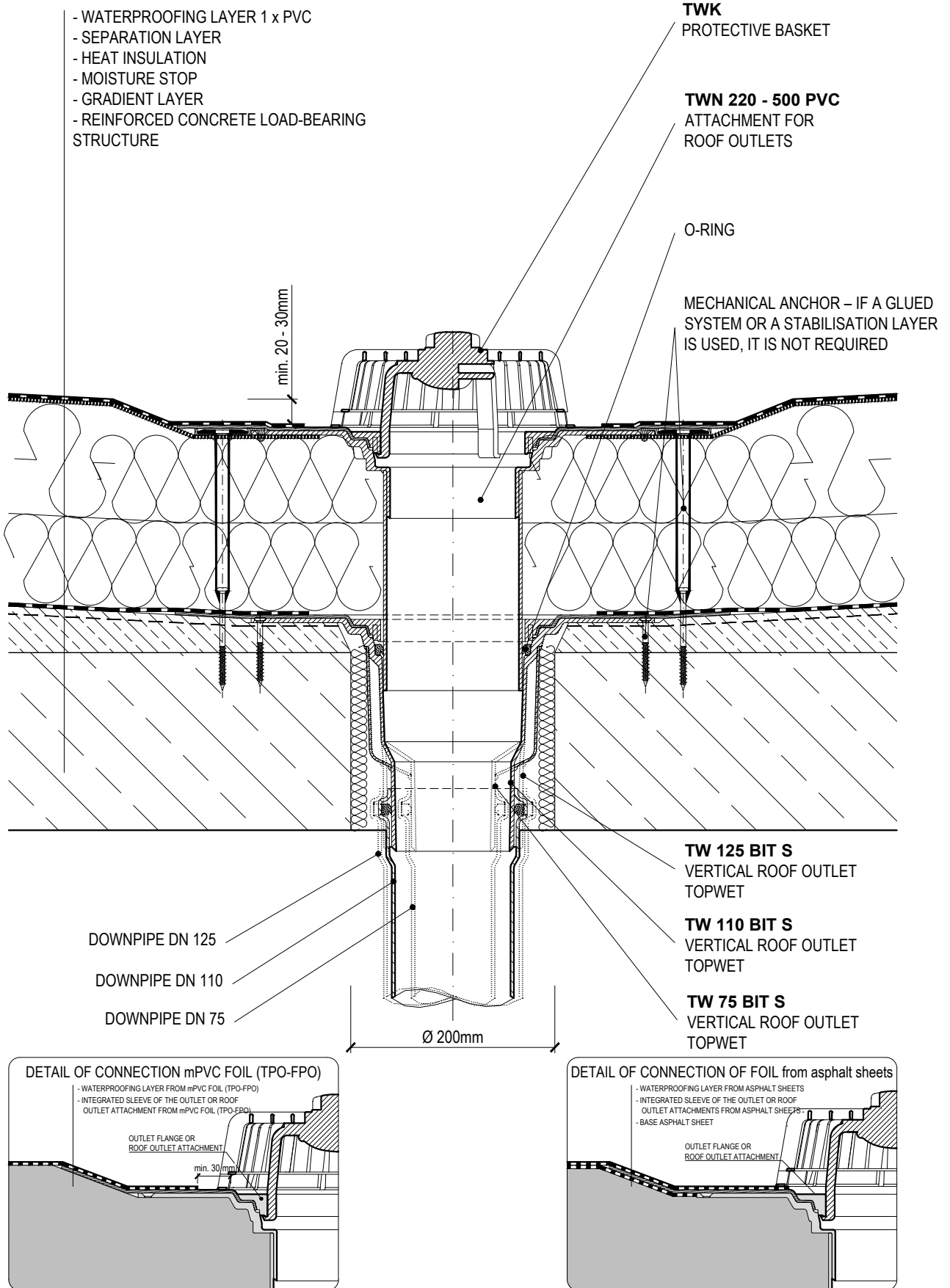
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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

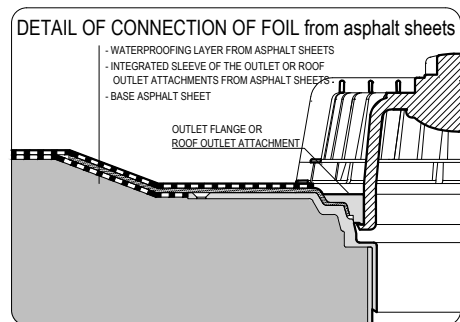
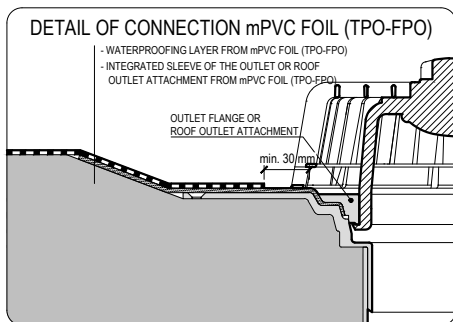
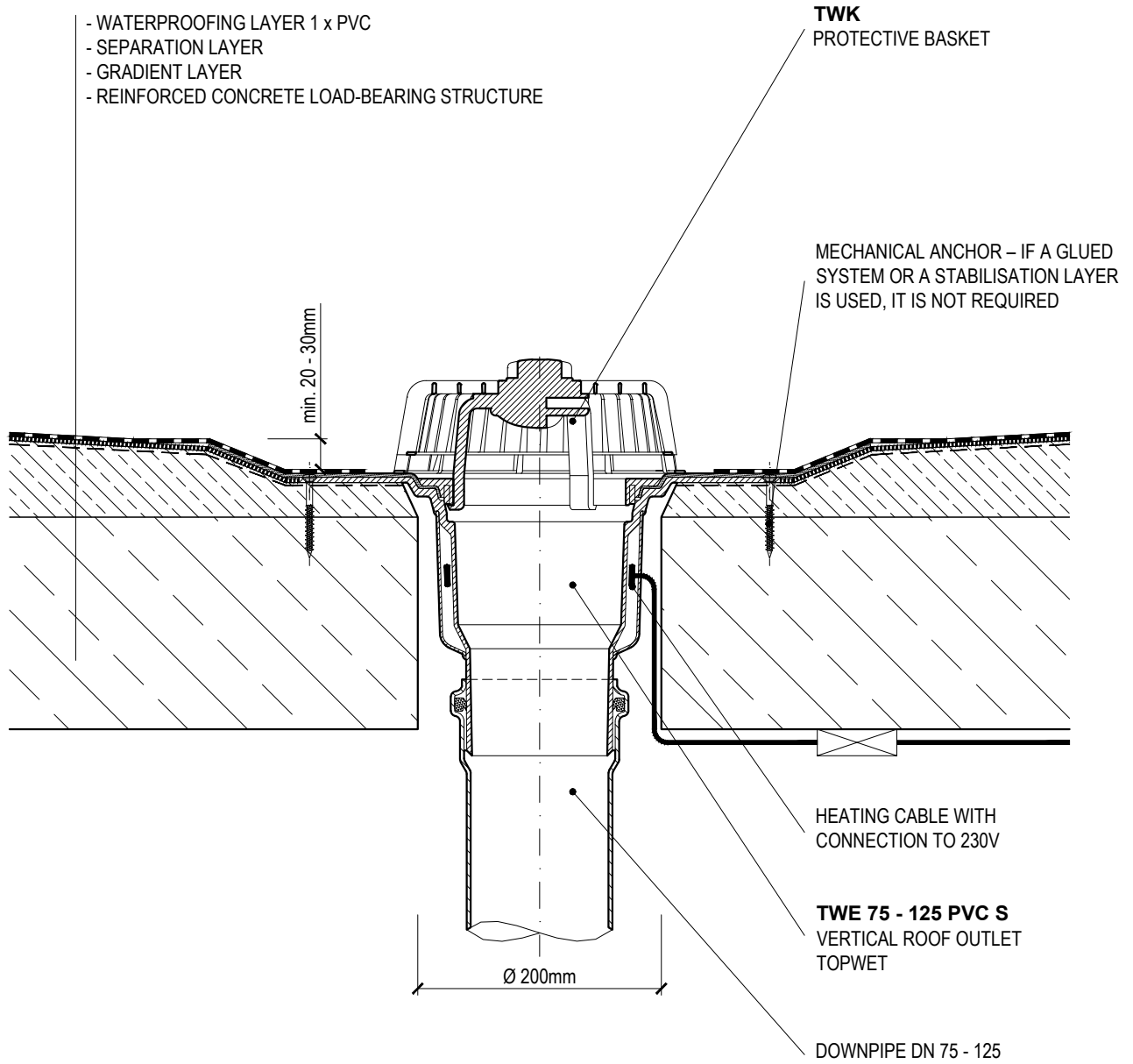
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Name	DETAIL OF THE ROOF OUTLET FIT
Type	SINGLE-DECK HEAT INSULATED UNLOADED ROOF
Construction	REINFORCED CONCRETE
Components	TW 110 BIT S, TWN 220 PVC

Scale 1:5



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TWE 110 PVC S**

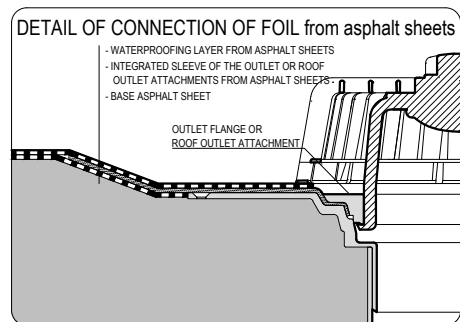
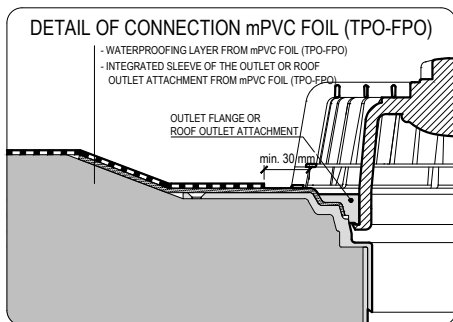
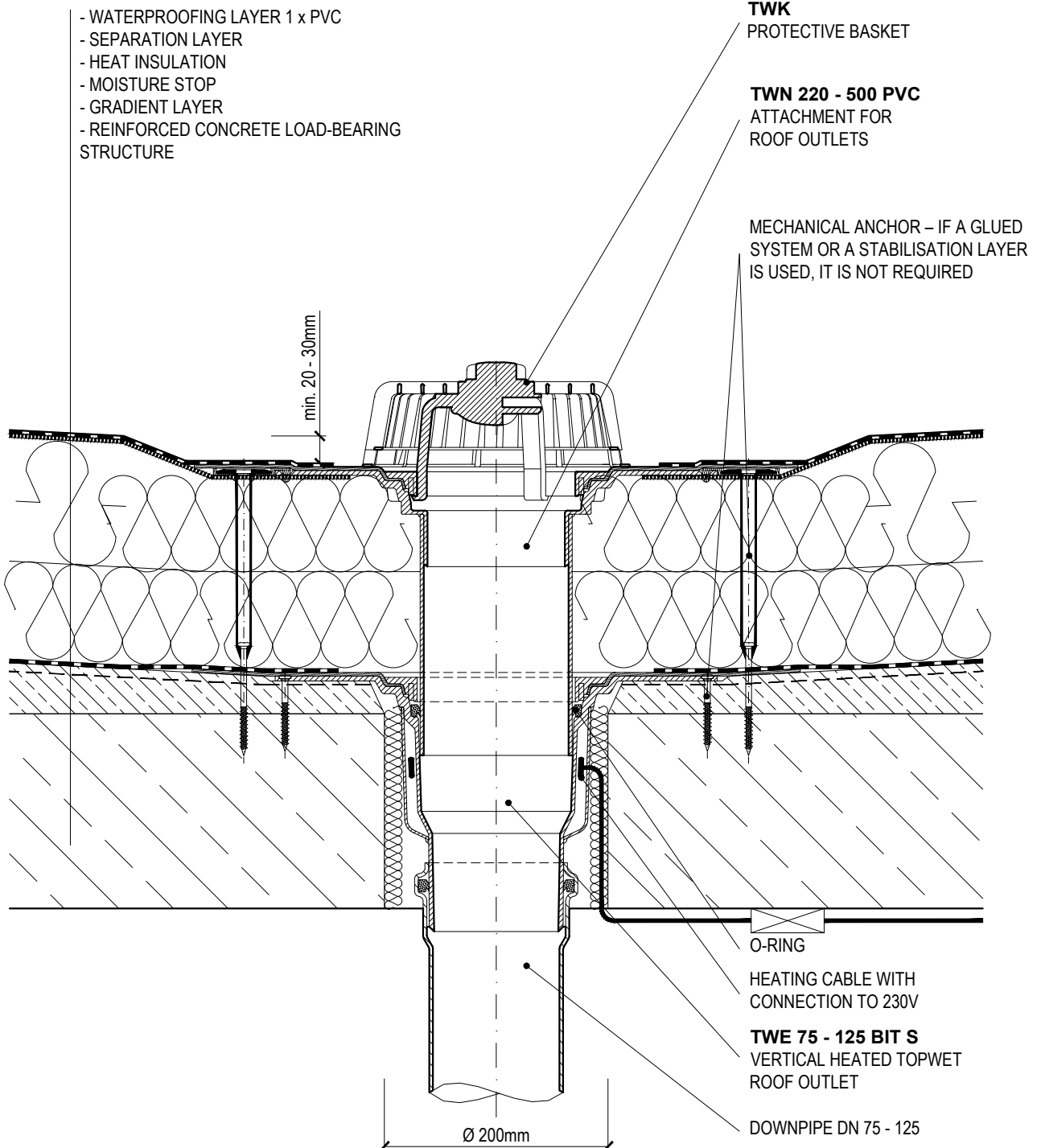
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Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED UNLOADED ROOF WITH HEATING**

Construction **REINFORCED CONCRETE**

Components **TWE 110 BIT S, TWN 220 PVC**

Scale **1:5**

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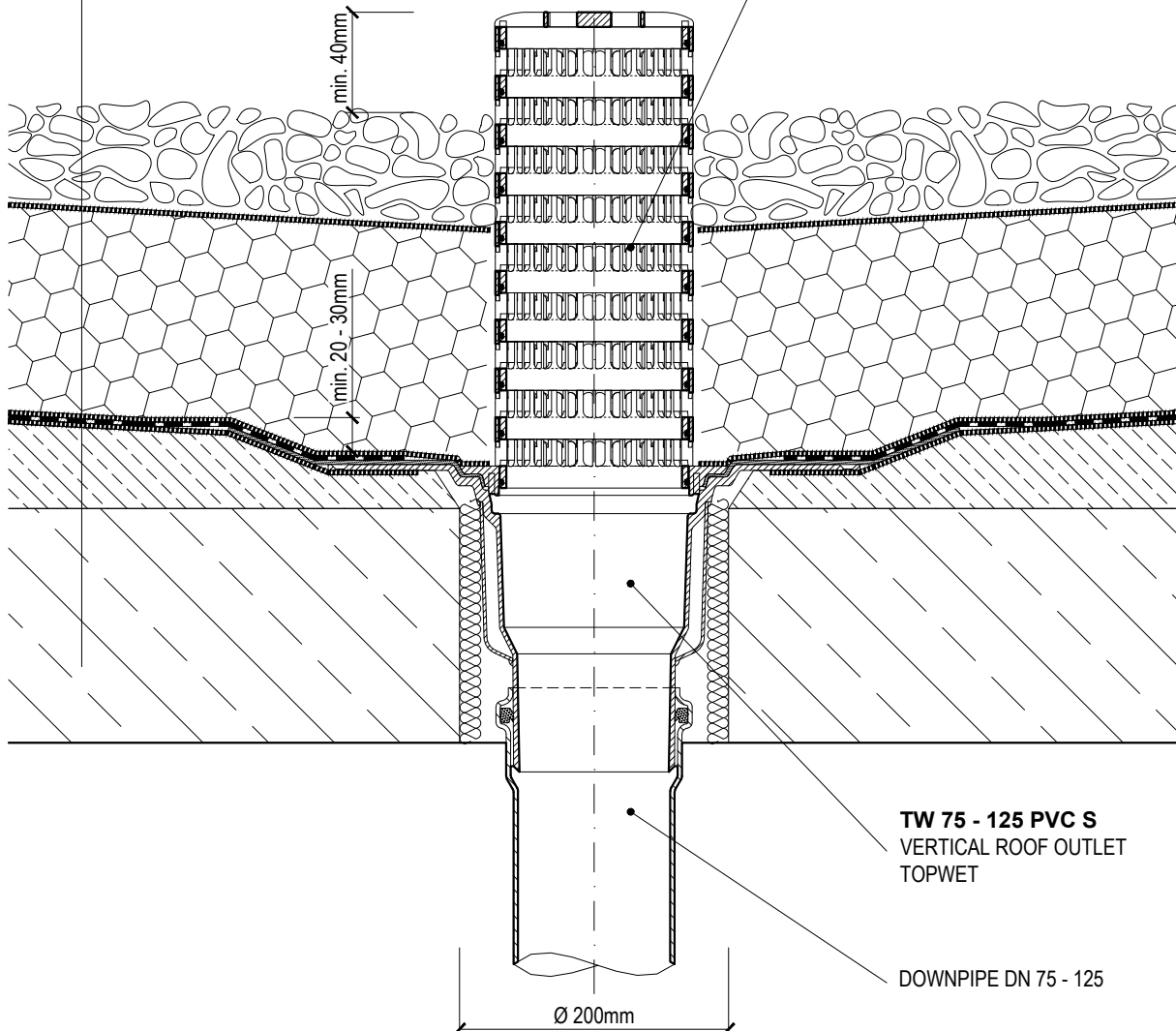
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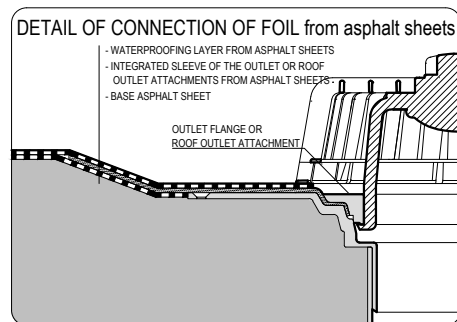
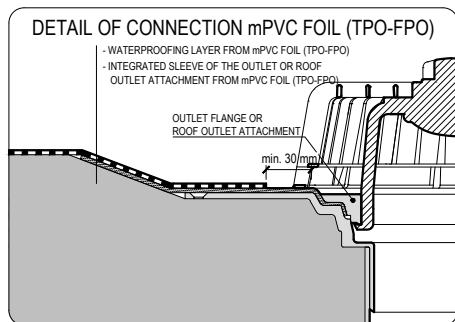
- SHINGLE
- SEPARATION LAYER
- HEAT INSULATION XPS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33-1000
PERFORATED BASKET
FOR ROOFS WITH
SHINGLE



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK ROOF WITH THE REVERSED SEQUENCE OF LAYERS**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TWOK v300**

Scale **1:5**

TOPWET

SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

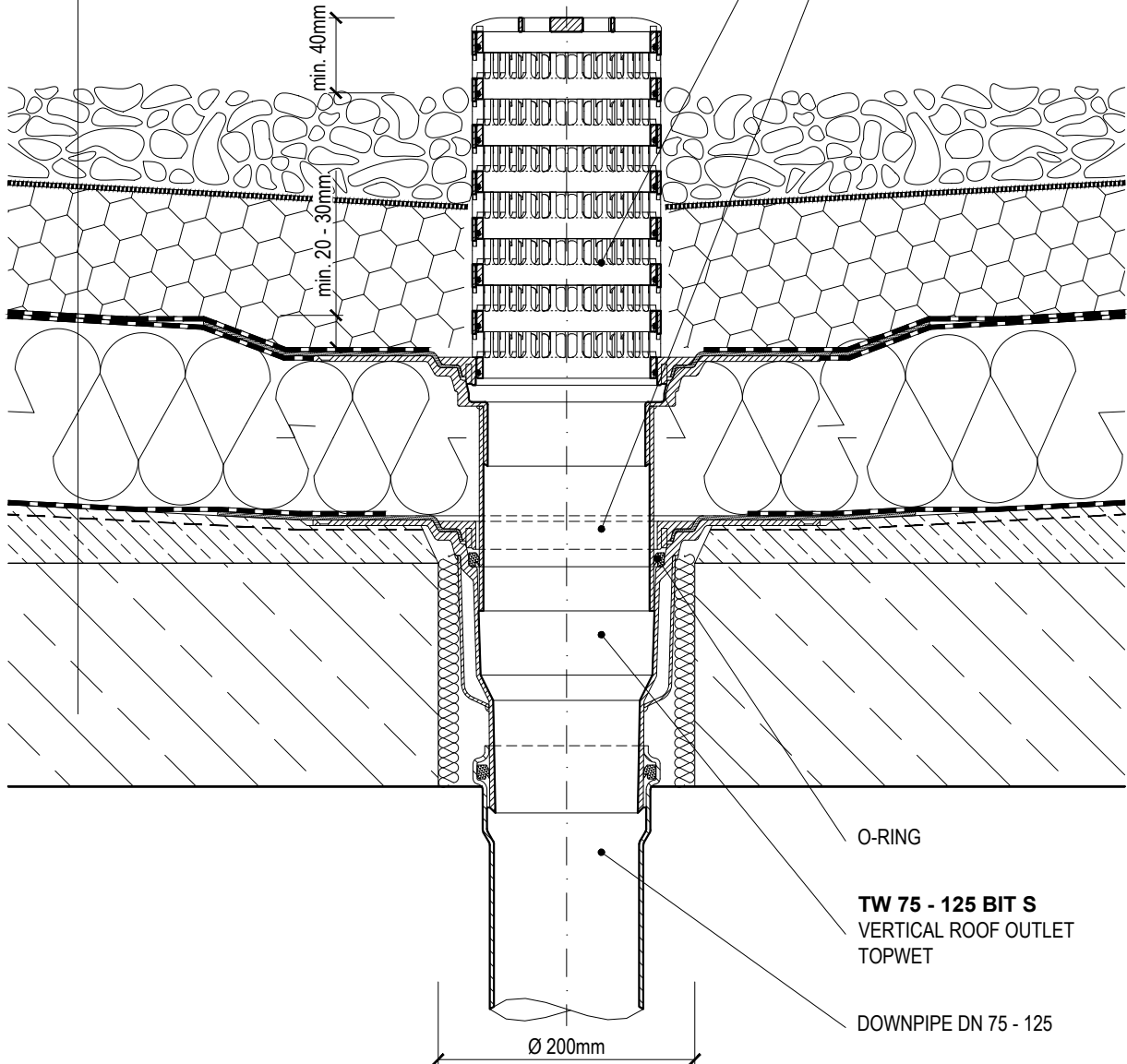
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- SHINGLE
- SEPARATION LAYER
- HEAT INSULATION XPS
- WATERPROOFING LAYER 2 ASPHALT SHEETS
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33-1000
PERFORATED BASKET
FOR ROOFS WITH
SHINGLE

TWN 220 - 500 BIT
ATTACHMENT FOR ROOF
OUTLETS

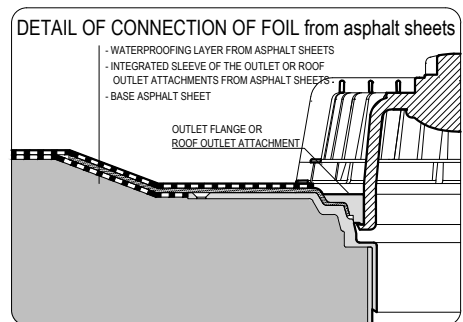
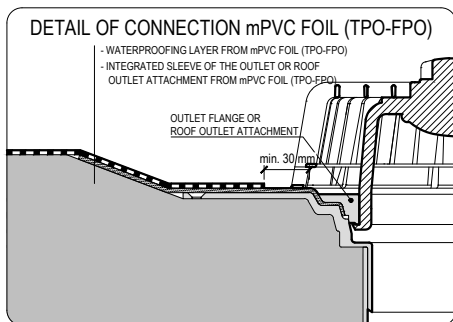


O-RING

TW 75 - 125 BIT S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125

Ø 200mm



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF, DUO COMPOSITION**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 BIT, TWOK v240**

Scale **1:5**

TOPWET

SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

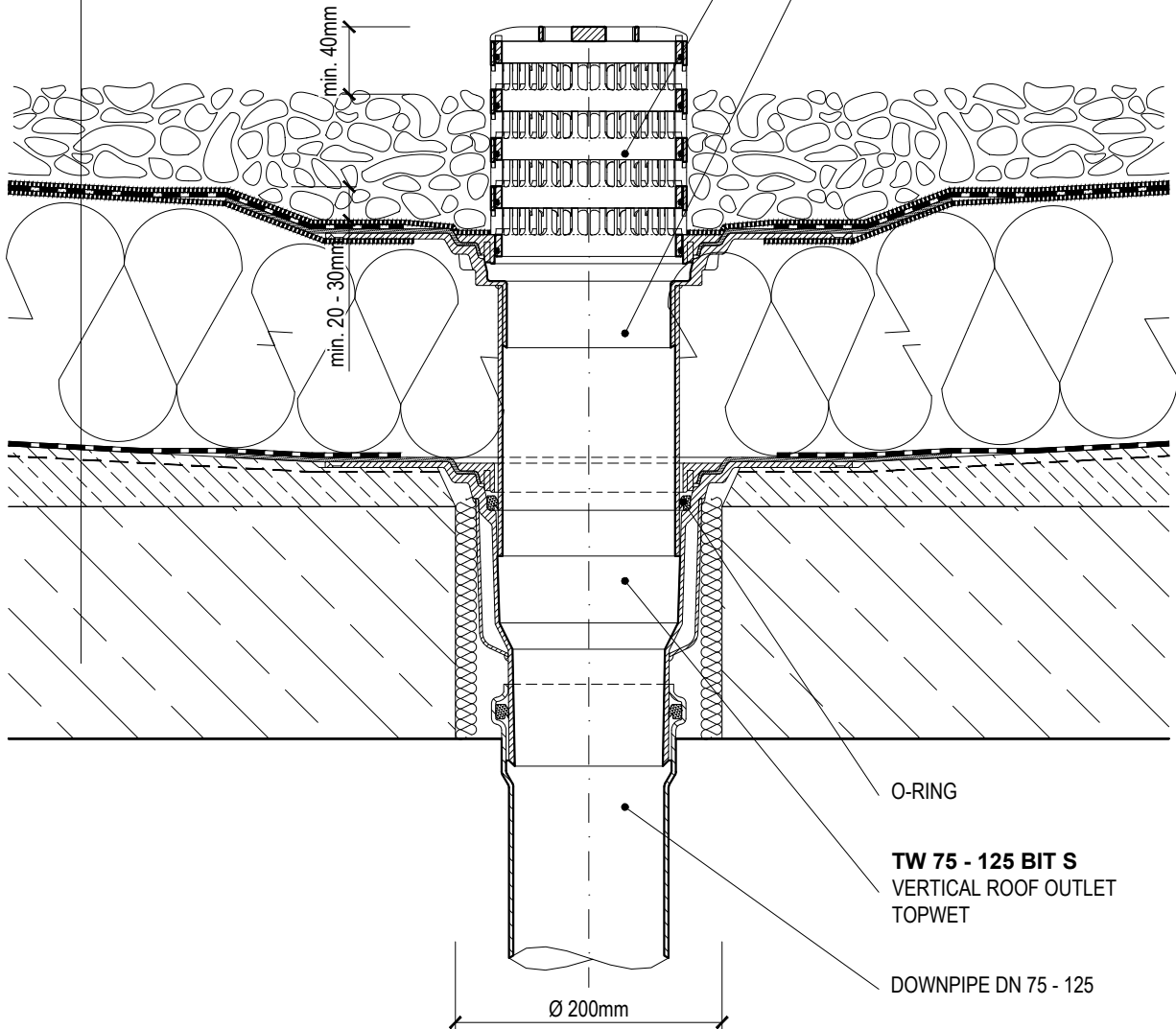
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- SHINGLE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v100-200
PERFORATED BASKET
FOR ROOFS WITH
SHINGLE

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS

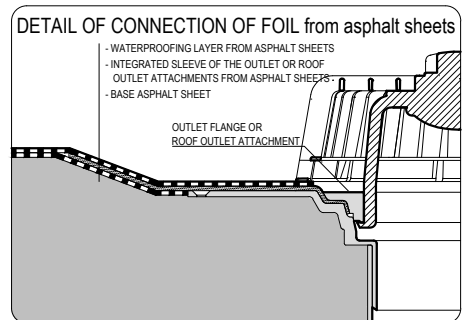
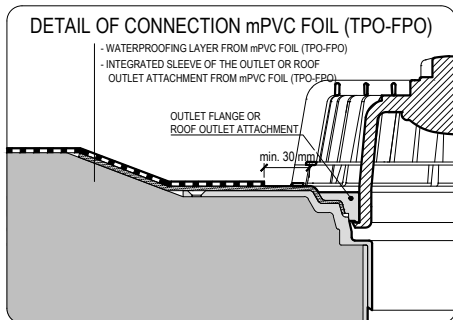


O-RING

TW 75 - 125 BIT S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125

Ø 200mm



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED SINGLE-DECK LOADED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWOK v140**

Scale **1:5**

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OF FLAT ROOFS

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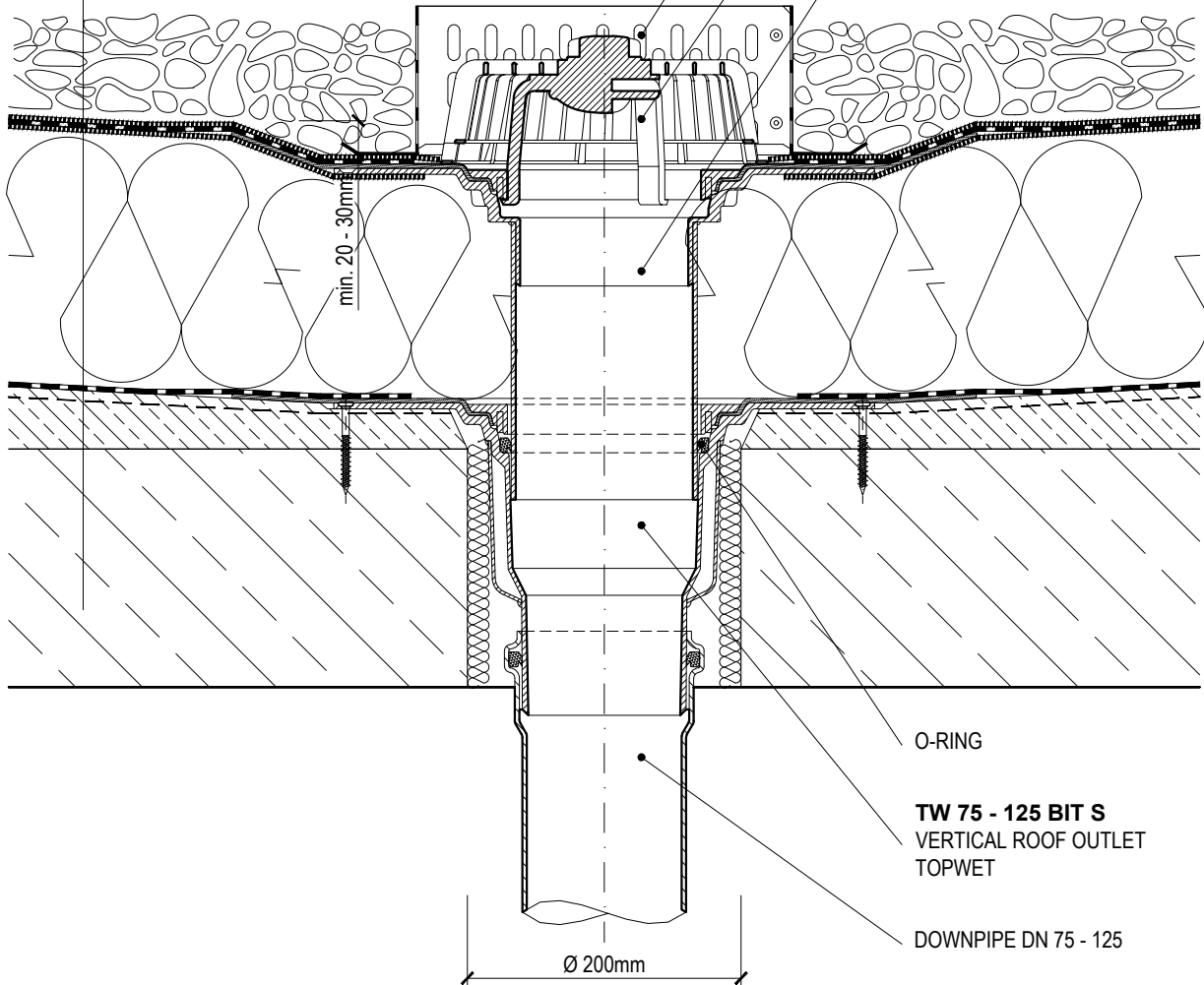
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- SHINGLE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWS 250x250x100
ALUMINIUM SHAFT FOR
ROOF WITH SHINGLE

TWK
PROTECTIVE BASKET

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS

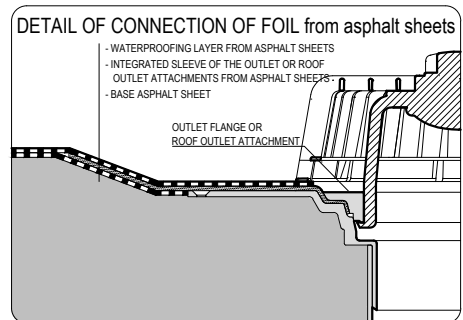
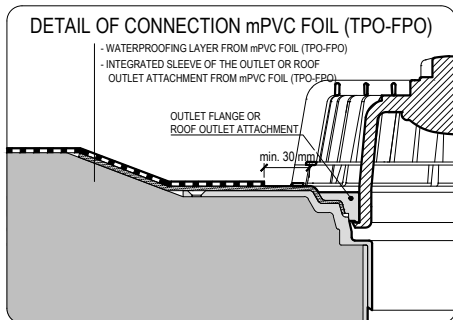


O-RING

TW 75 - 125 BIT S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125

Ø 200mm



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED SINGLE-DECK LOADED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWS 25x25x10**

Scale **1:5**

TOPWET

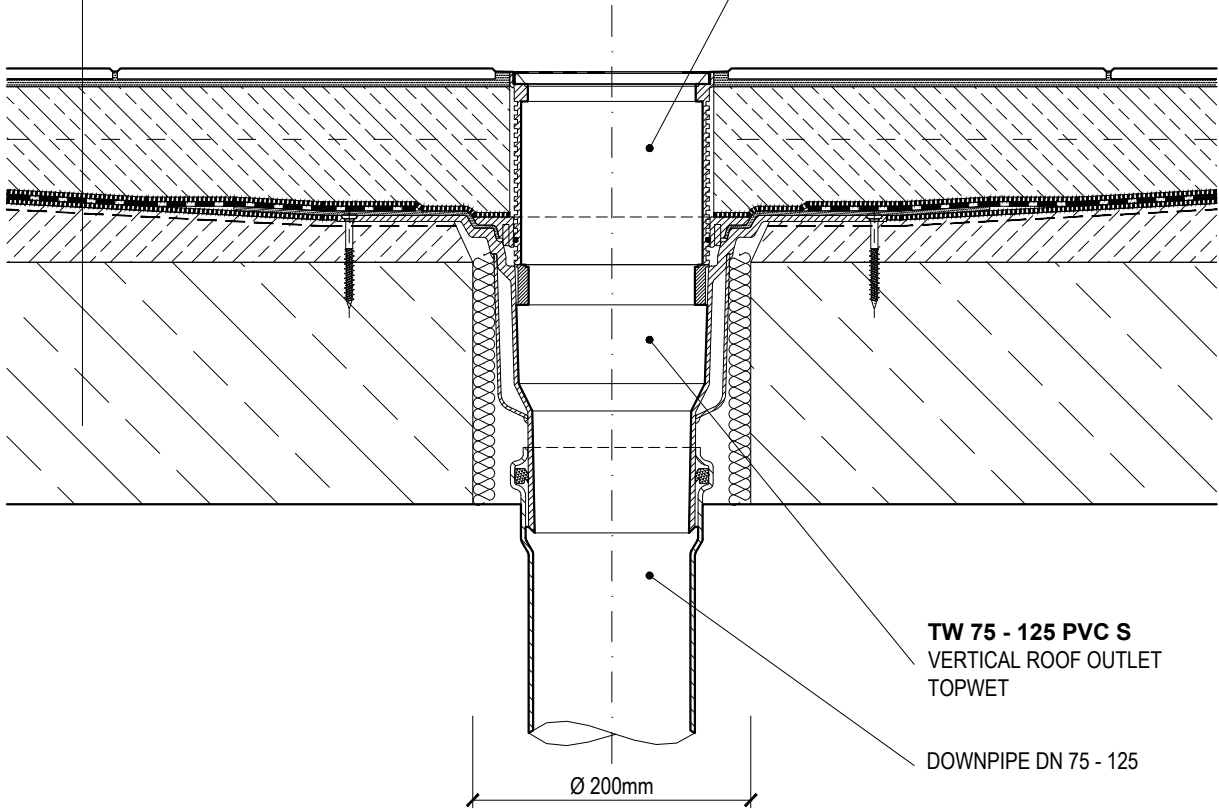
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OF FLAT ROOFS

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- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

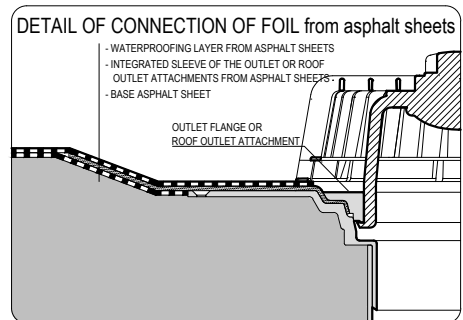
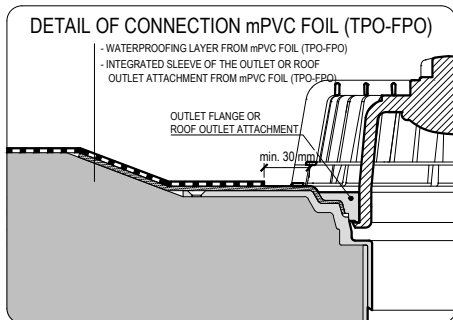
TW TER
TERRACE ATTACHMENT FOR
ROOF OUTLETS



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125

Ø 200mm



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH THE PAVING IN CONCRETE**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TW TER**

Scale **1:5**

TOPWET

SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

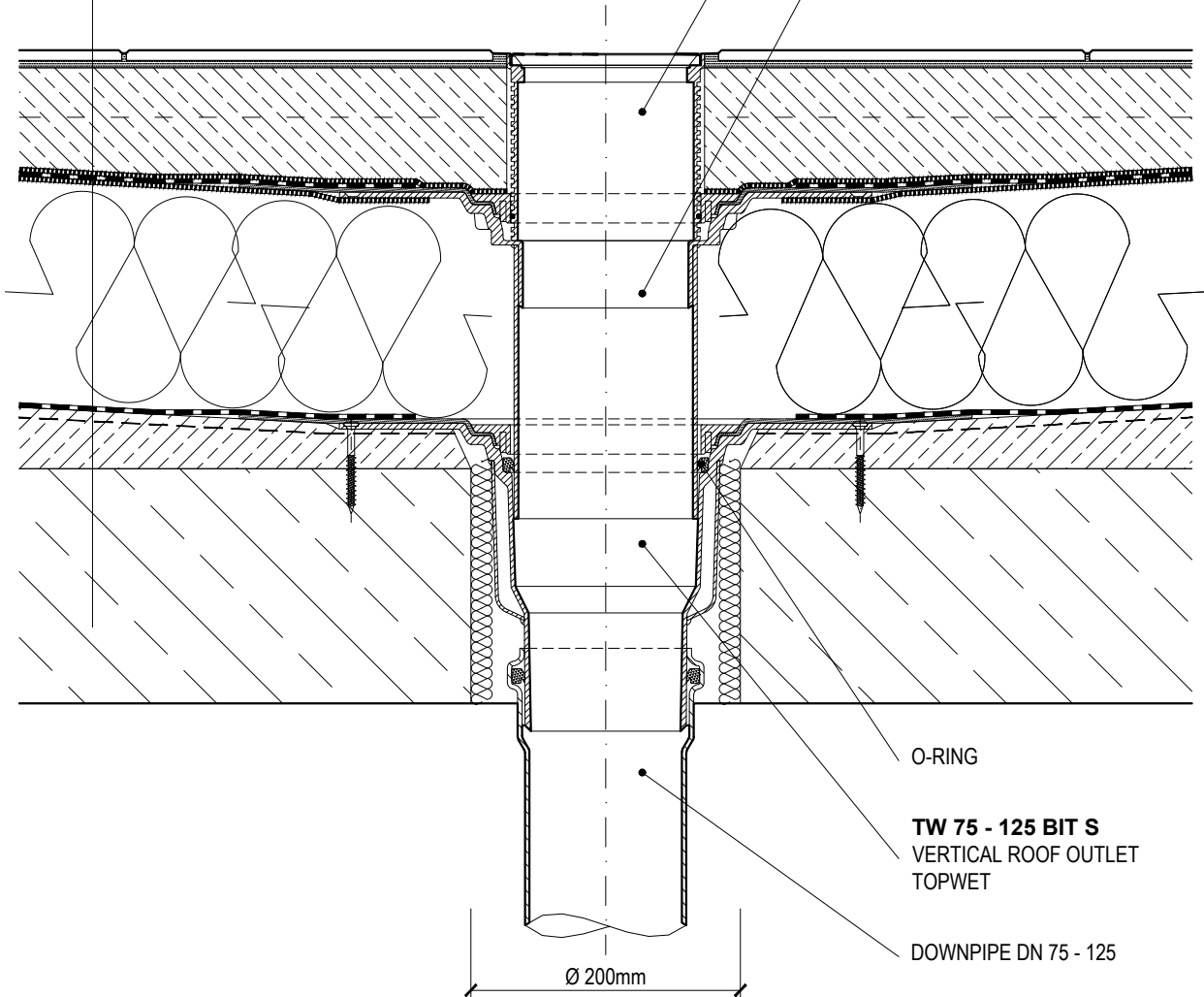
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- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TW TER
TERRACE ATTACHMENT FOR
ROOF OUTLETS

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS

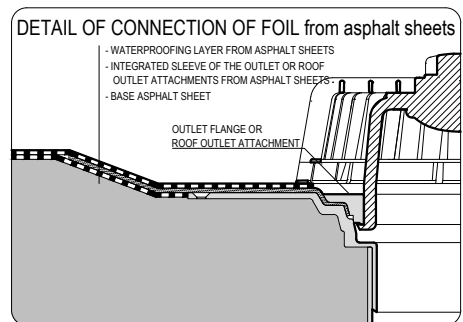
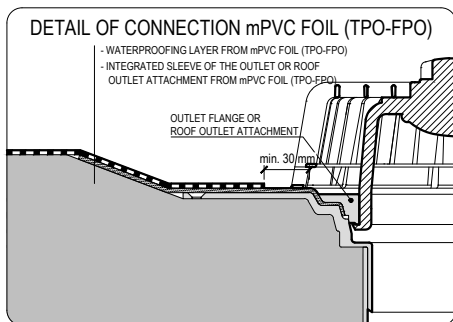


O-RING

TW 75 - 125 BIT S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125

Ø 200mm

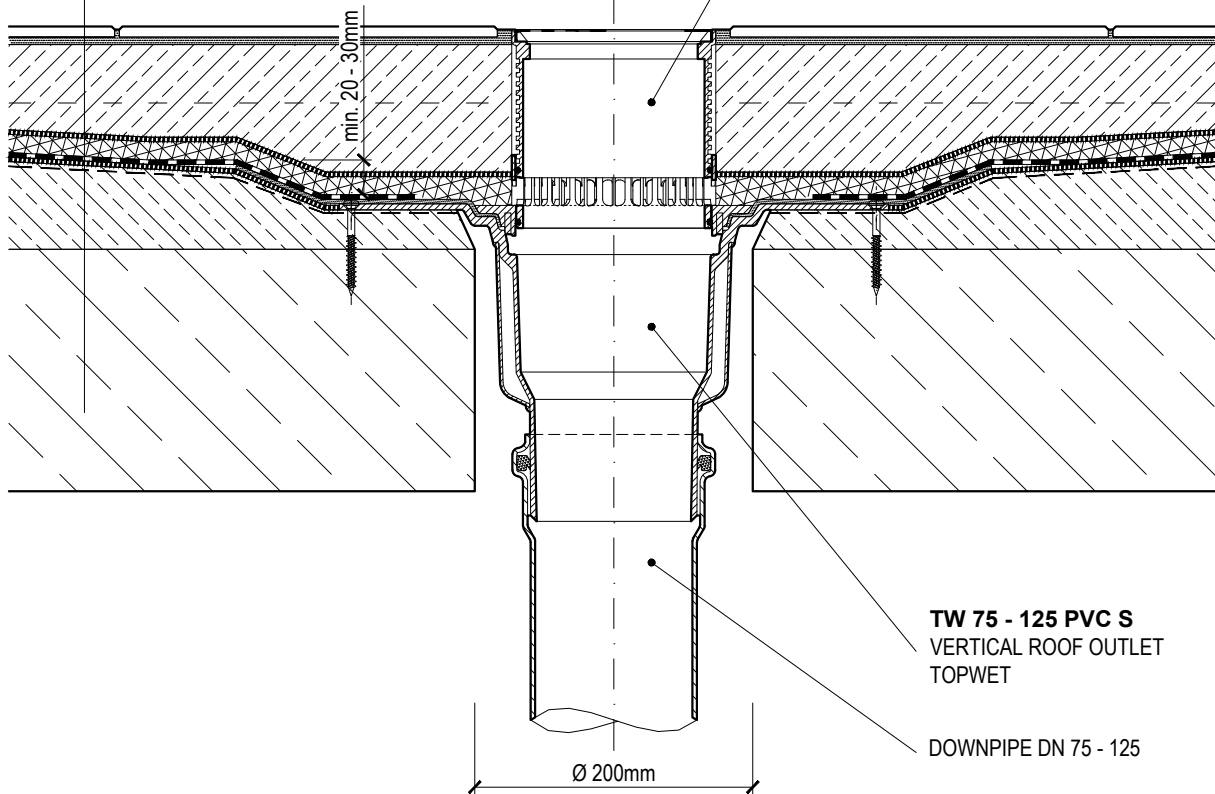


Name	DETAIL OF THE ROOF OUTLET FIT
Type	SINGLE-DECK HEAT INSULATED ROOF WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TW 110 BIT S, TWN 220 PVC, TW TER

Scale 1:5

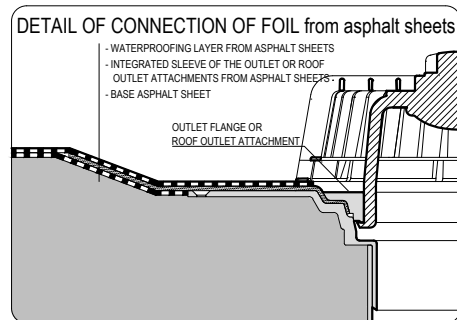
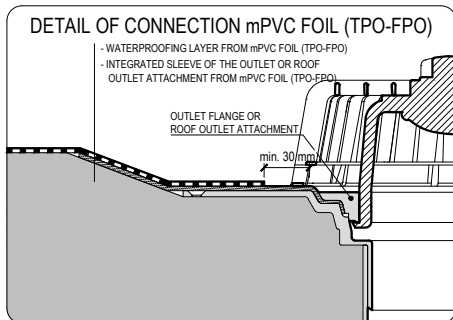
- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- DRAINAGE LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TW TER
TERRACE ATTACHMENT FOR
ROOF OUTLETS, PAVING IN
CONCRETE



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH THE PAVING IN CONCRETE**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TW TER**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

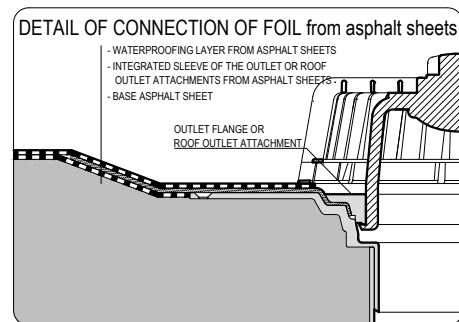
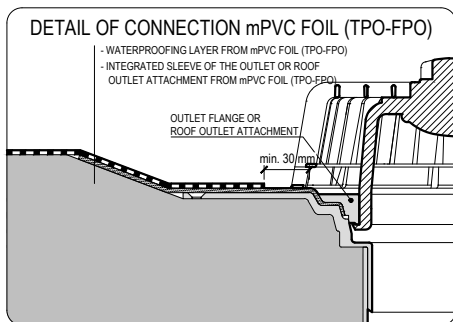
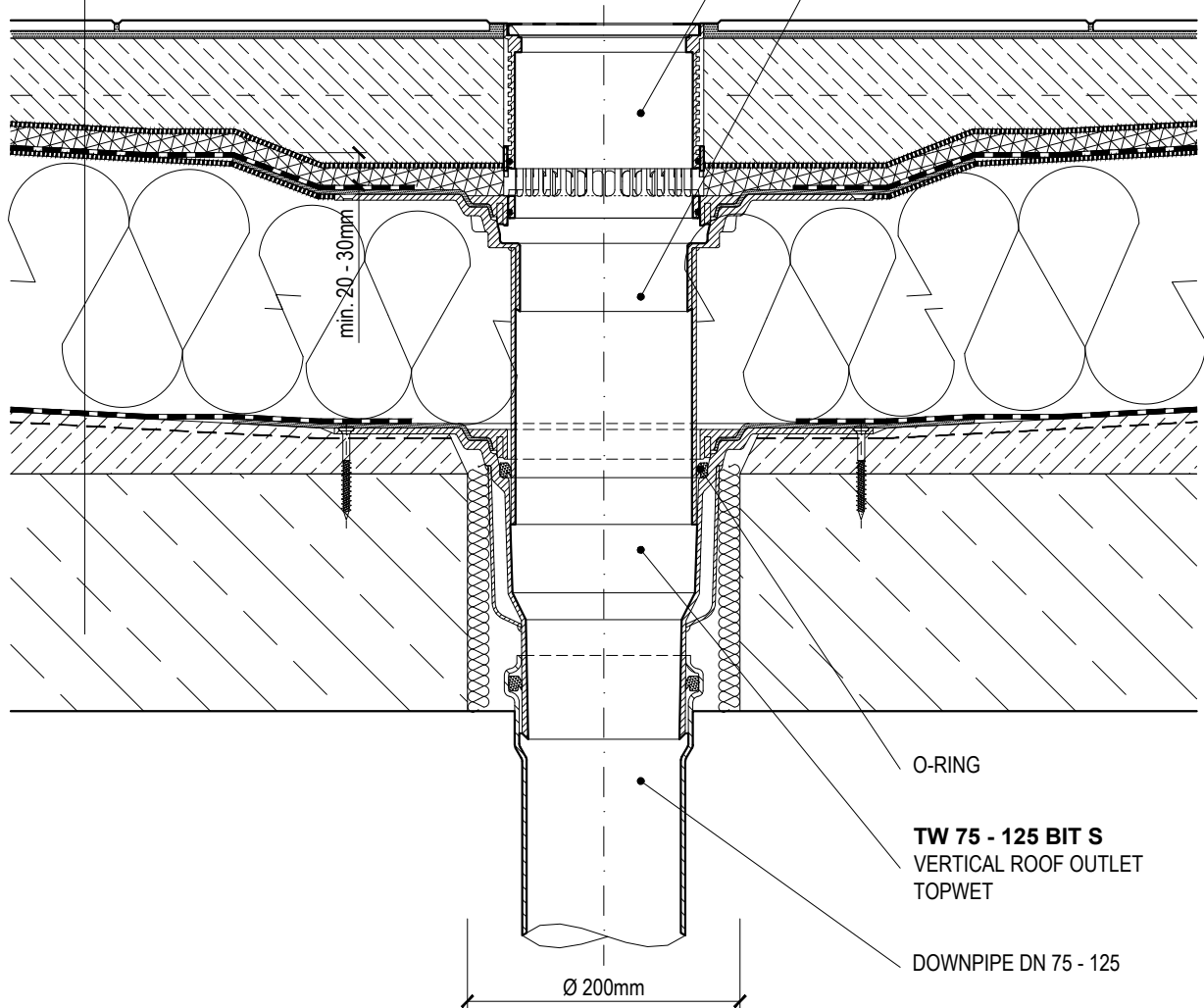
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- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- DRAINAGE LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

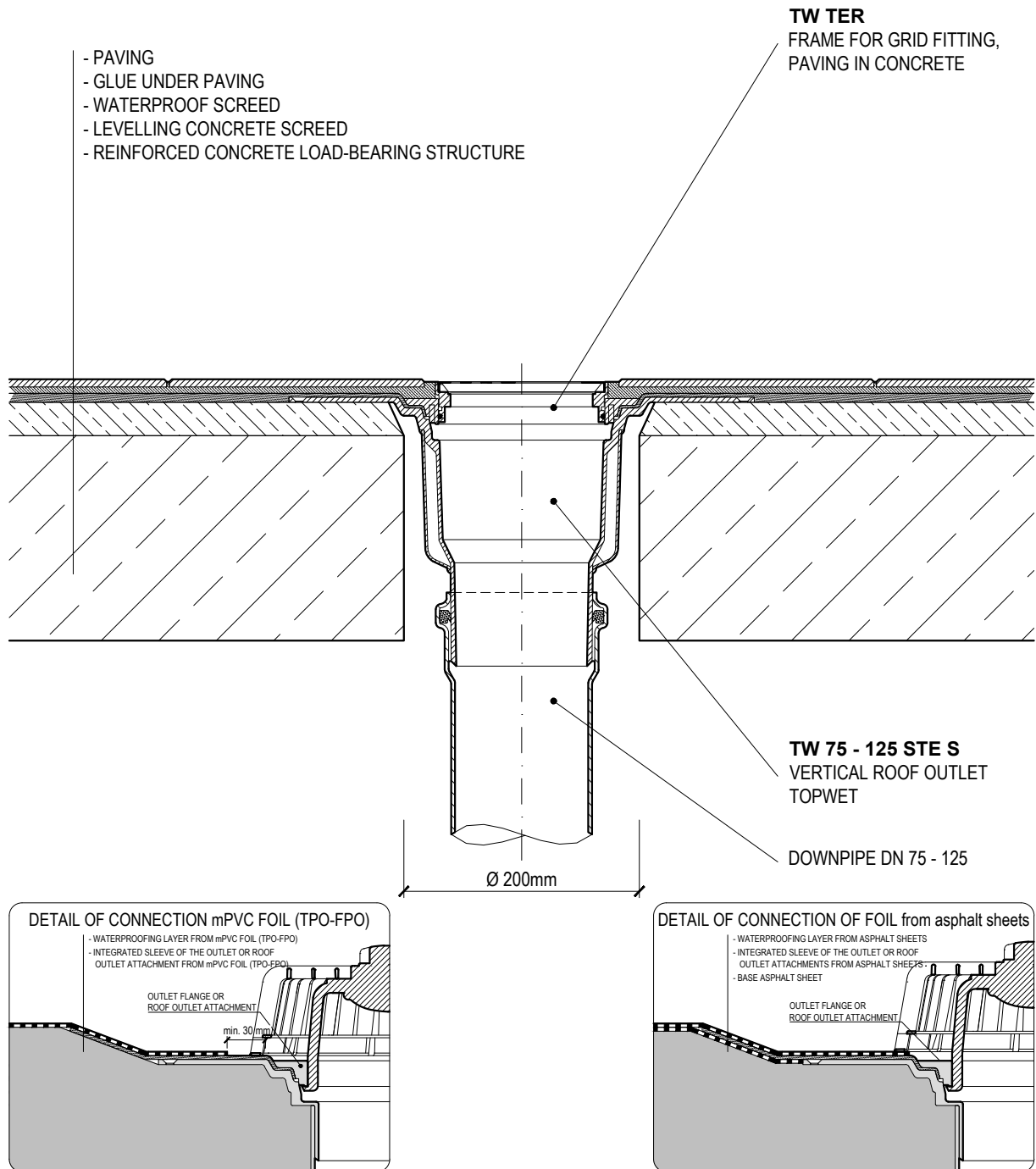
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TERRACE ATTACHMENT FOR
ROOF OUTLETS, PAVING IN
CONCRETE

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS



Name	DETAIL OF THE ROOF OUTLET FIT
Type	SINGLE-DECK HEAT INSULATED ROOF WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TW 110 BIT S, TWN 220 PVC, TW TER

Scale 1:5



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH PAVING IN THE SCREED WATERPROOFING**

Construction **REINFORCED CONCRETE**

Components **TW 110 STE S, TW TER**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

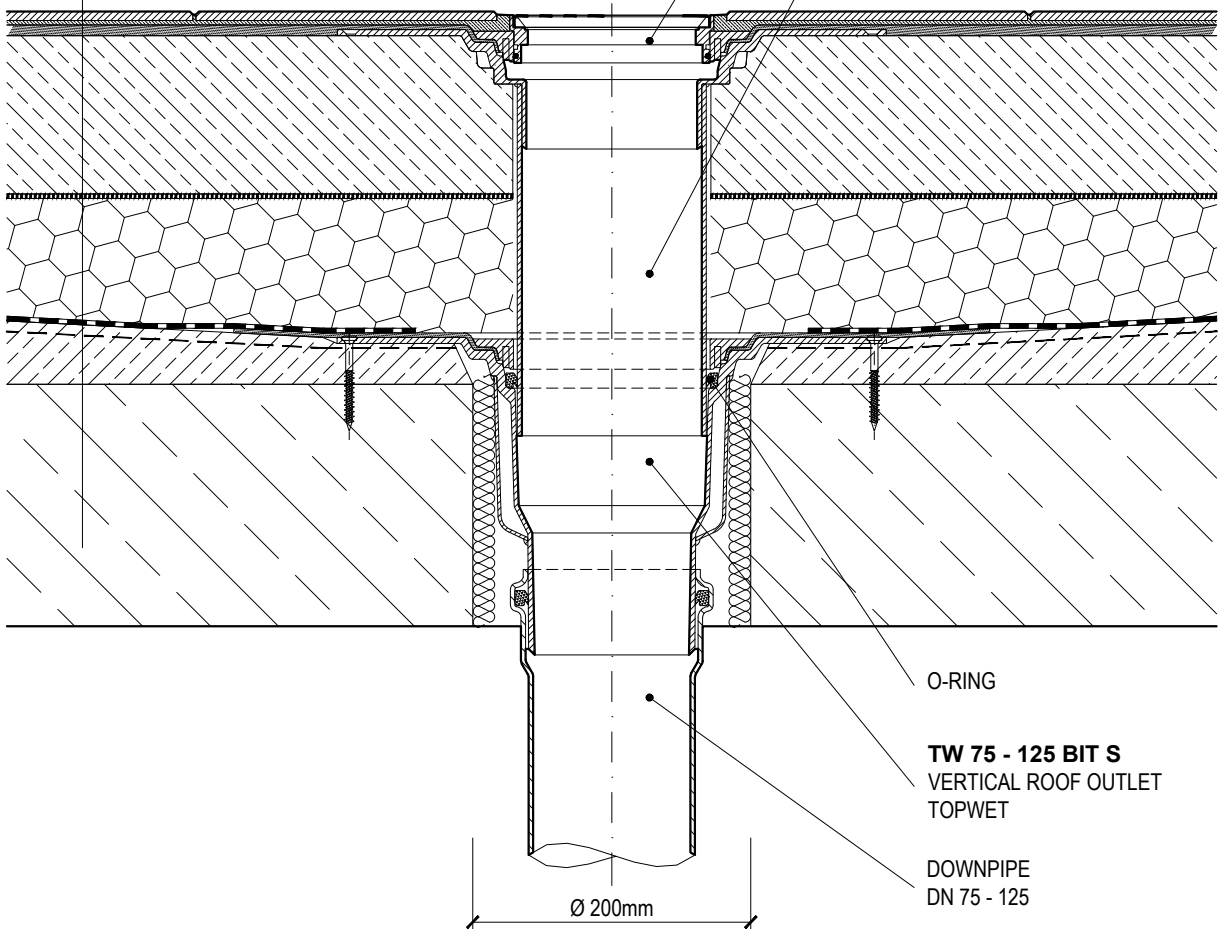
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- PAVING
- GLUE UNDER PAVING
- WATERPROOF SCREED
- CONCRETE SCREED
- SEPARATION LAYER
- HEAT INSULATION XPS
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TW TER
FRAME FOR GRID FITTING,
PAVING IN CONCRETE

TWN 220 - 500 STE
ATTACHMENT FOR ROOF
OUTLETS

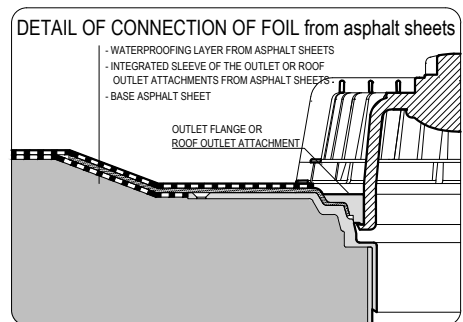
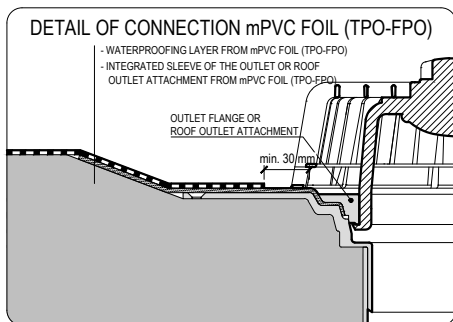


O-RING

TW 75 - 125 BIT S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE
DN 75 - 125

Ø 200mm



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF WITH PAVING IN WATERPROOF SCREED**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 STE, TW TER**

Scale **1:5**

TOPWET

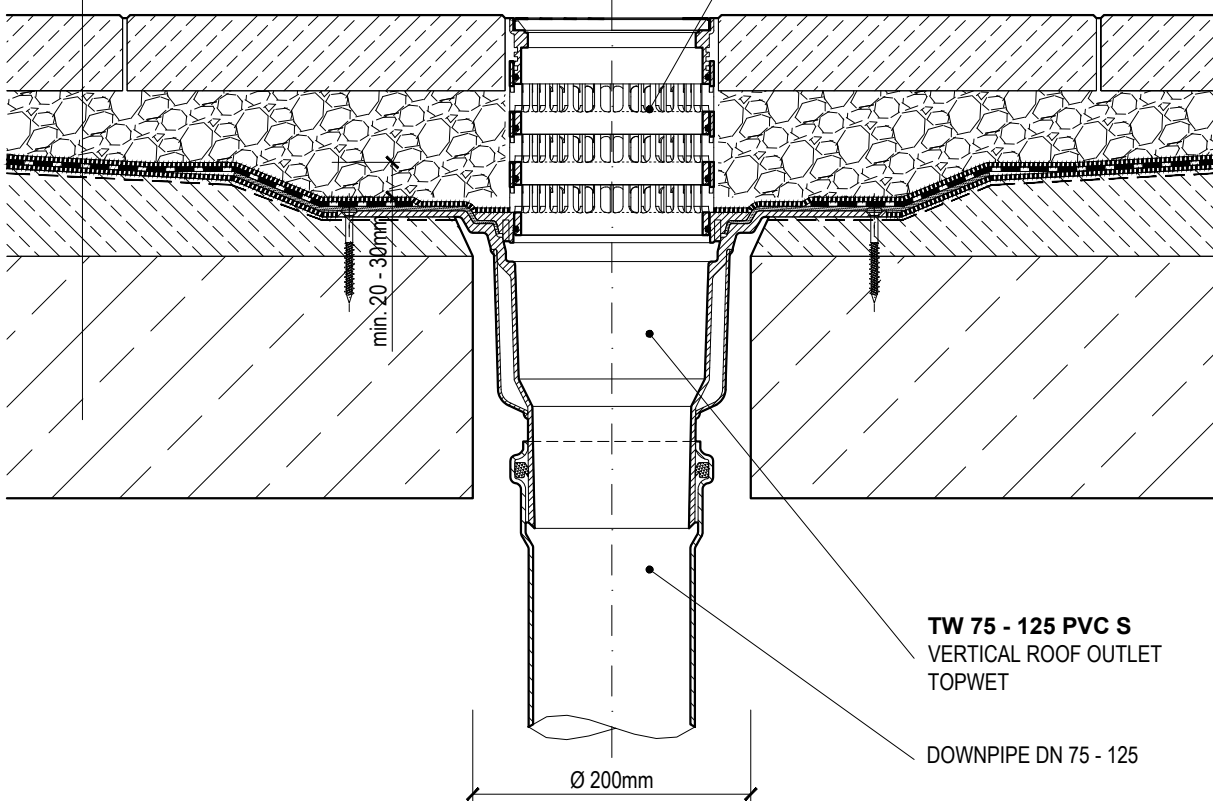
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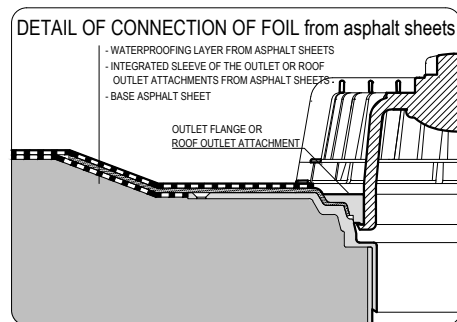
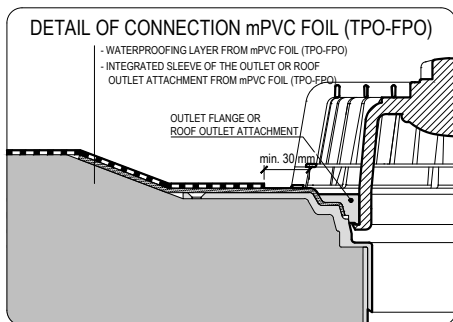
- PAVING
- SHINGLE SUBBASE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TW TER P
TERRACE ATTACHMENT FOR
ROOF OUTLETS, PAVING IN
SUBBASE



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH PAVING IN SUBBASE**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TW TER P**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

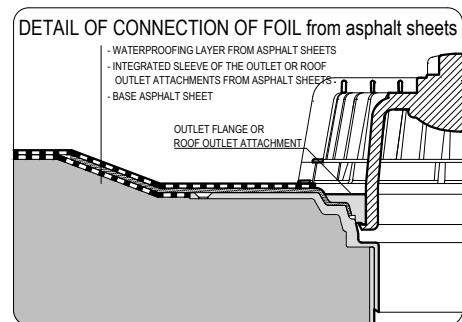
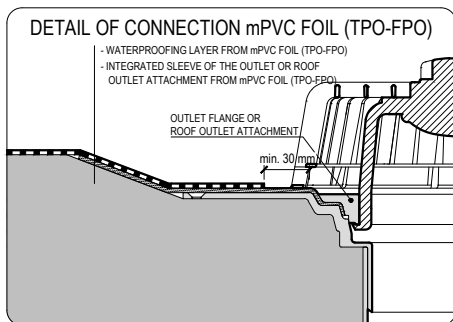
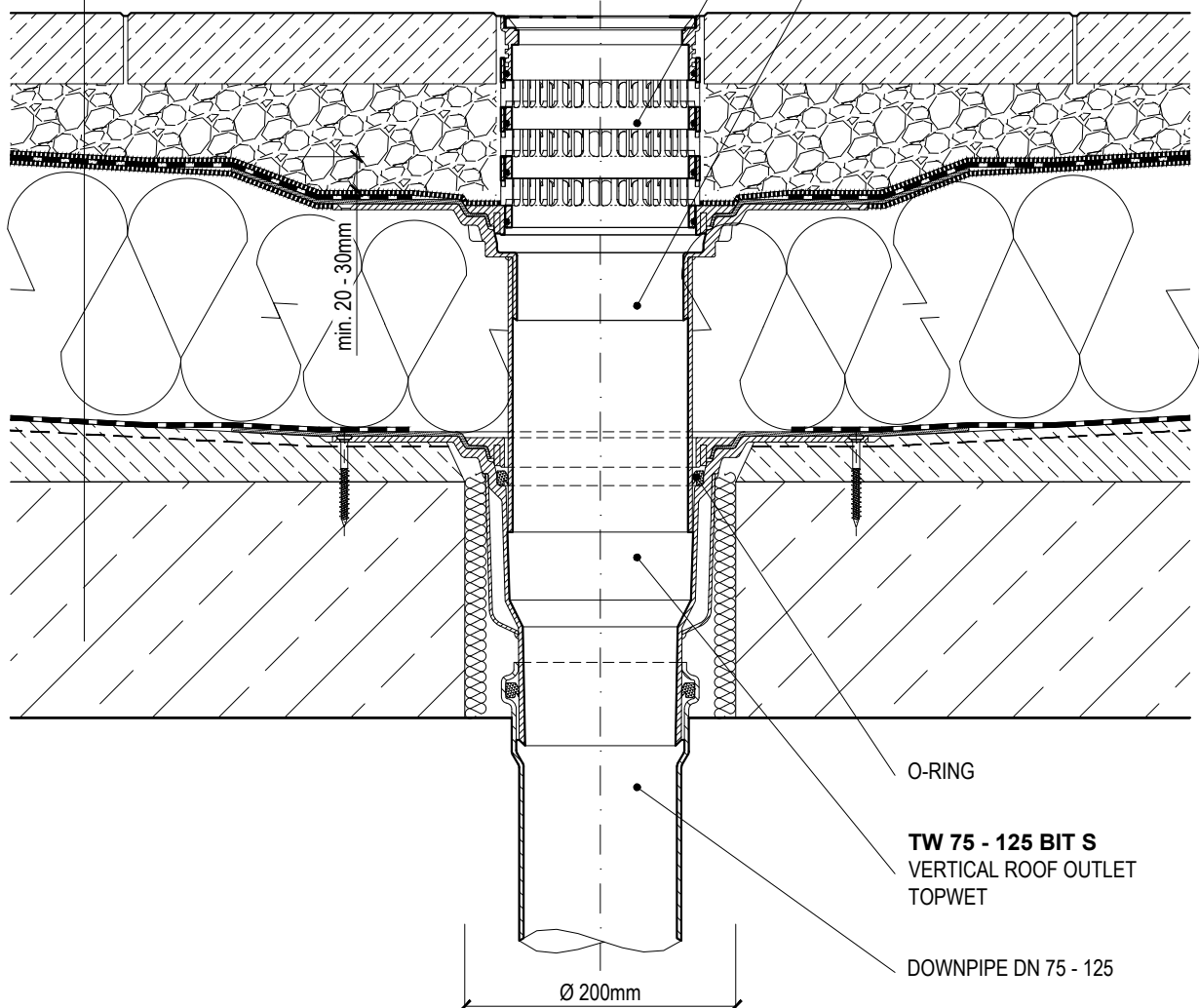
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- PAVING
- SHINGLE SUBBASE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TW TER P
TERRACE ATTACHMENT FOR
ROOF OUTLETS, PAVING IN
SUBBASE

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF WITH PAVING IN SUBBASE**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TW TER P**

Scale **1:5**

TOPWET

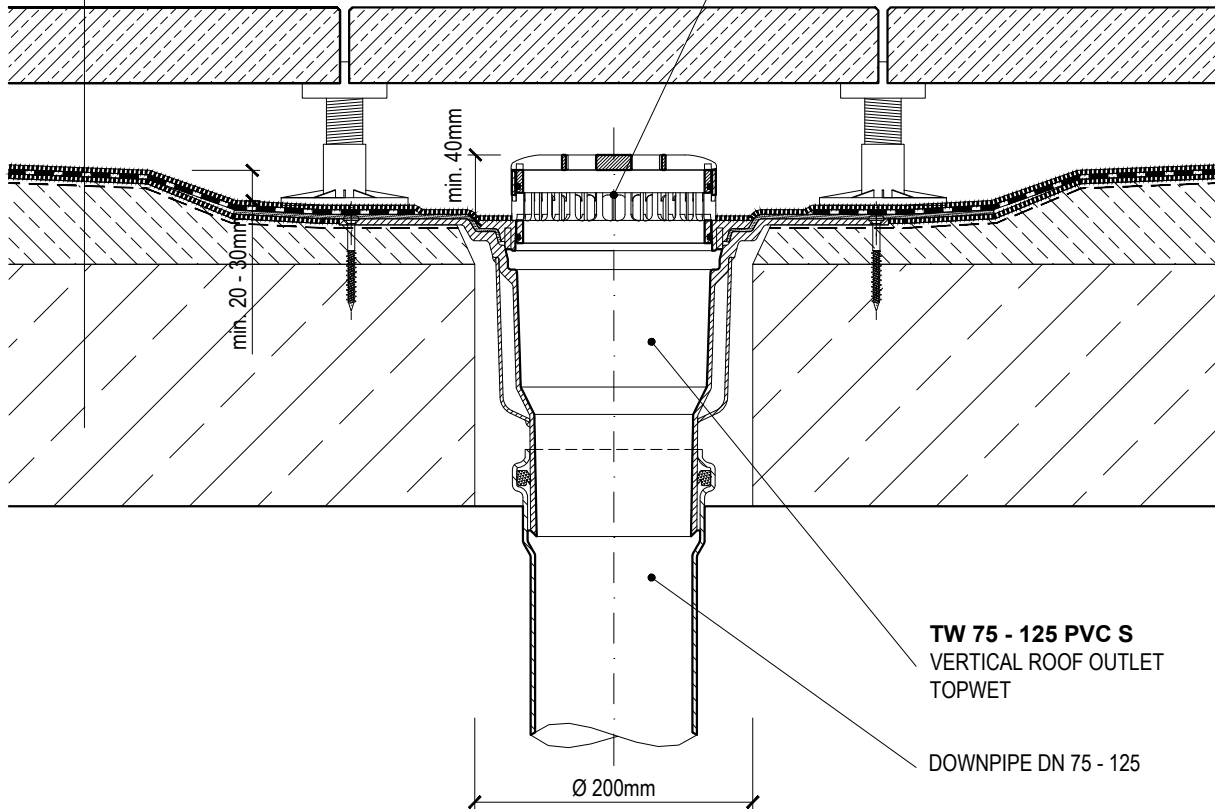
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OF FLAT ROOFS

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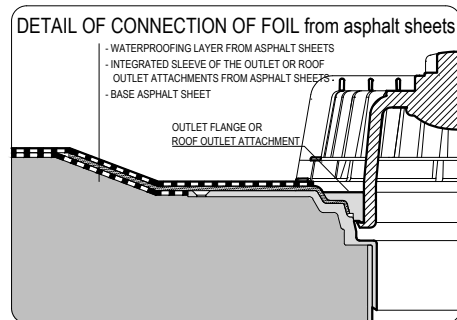
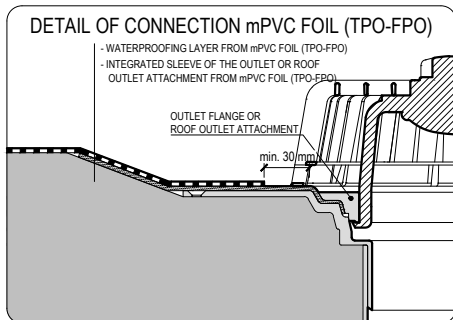
- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TWOK v33**

Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

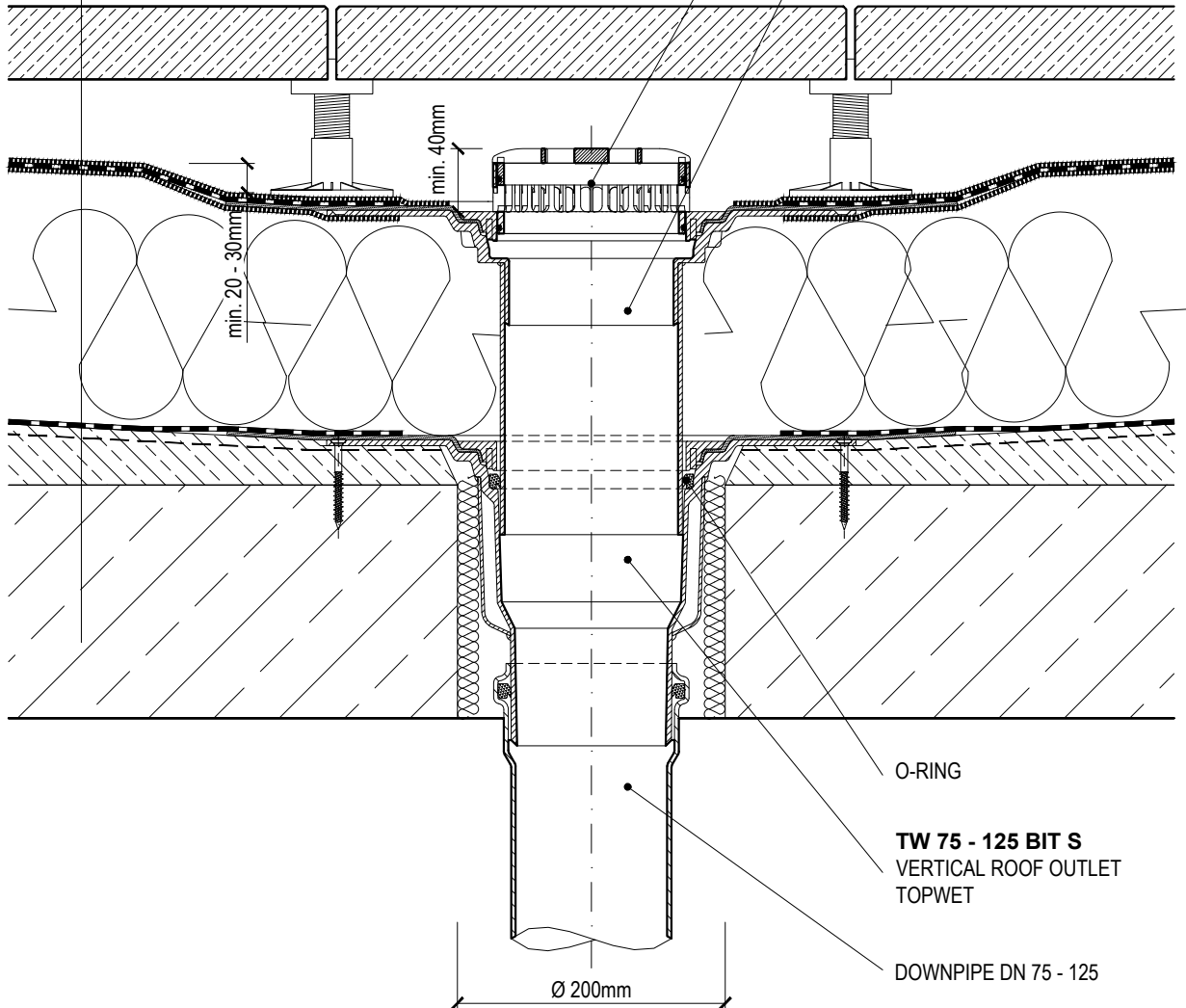
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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF OUTLETS

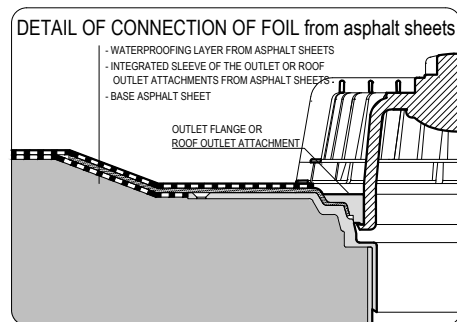
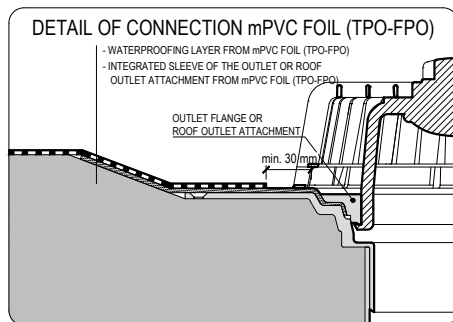


O-RING

TW 75 - 125 BIT S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125

Ø 200mm



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWOK v33**

Scale **1:5**

TOPWET

SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

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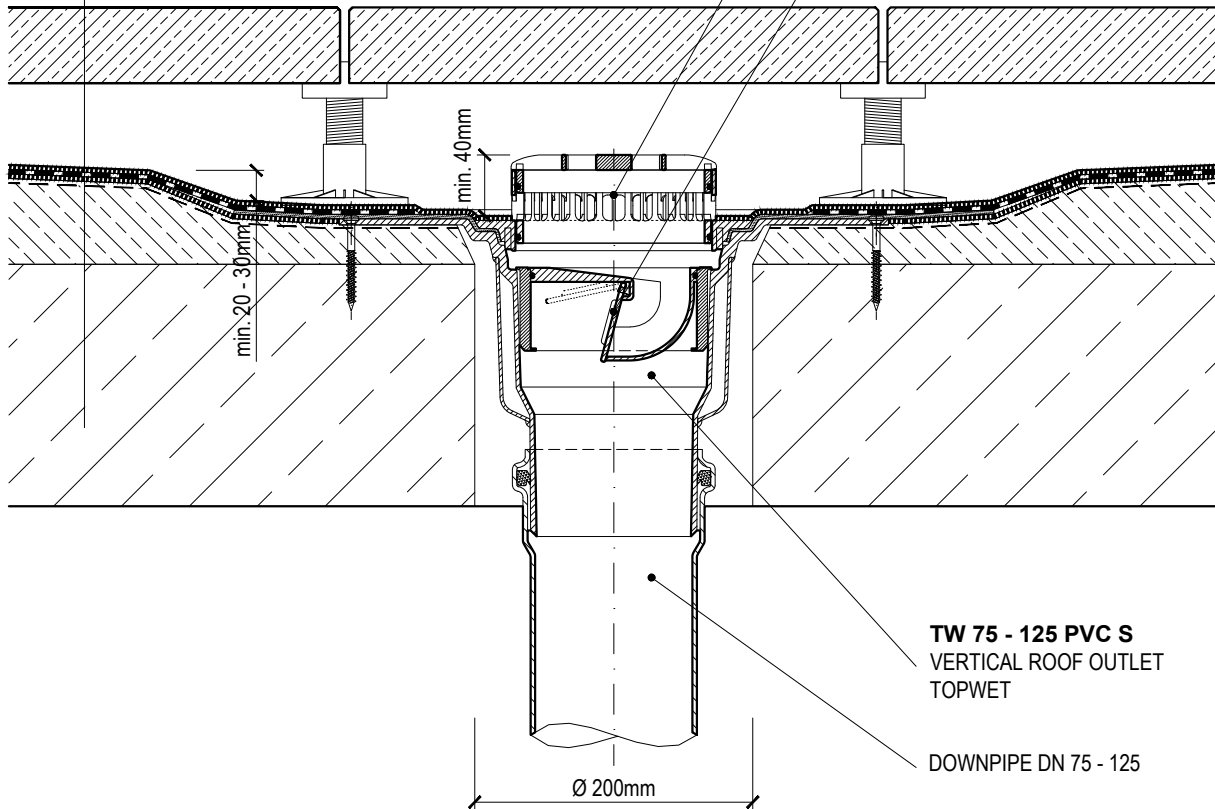
- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33

PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

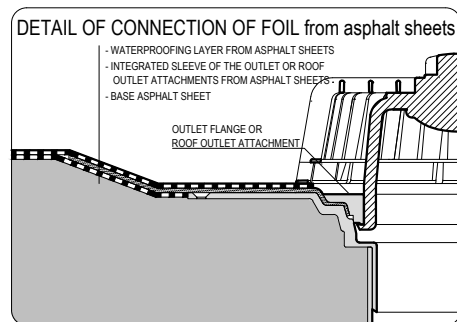
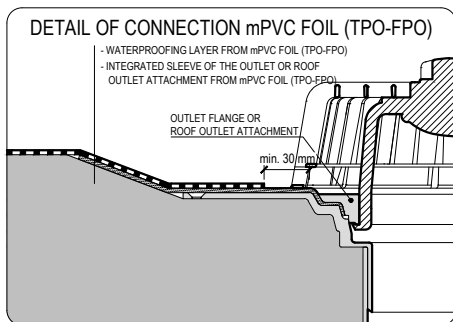
TWZU KL

MECHANICAL STINK FLAP



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TWOK v33, TWZU KL**

Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

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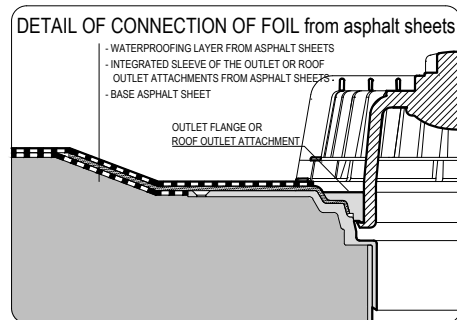
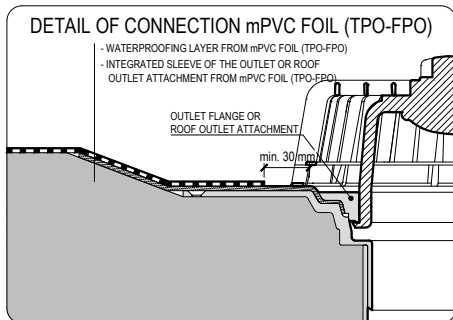
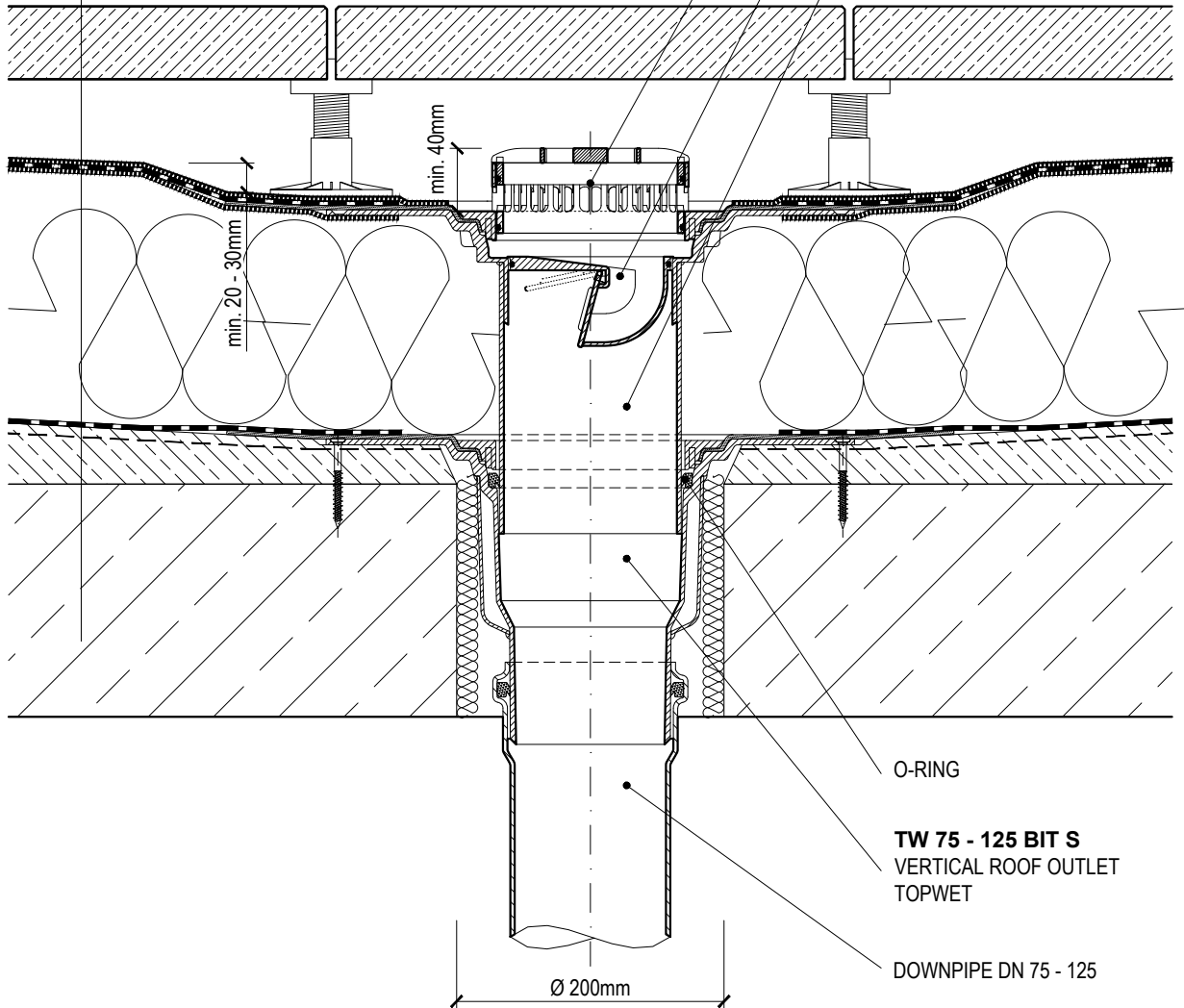
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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWZU KL
MECHANICAL STINK FLAP

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF OUTLETS



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWOK v33, TWZU KL**

Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

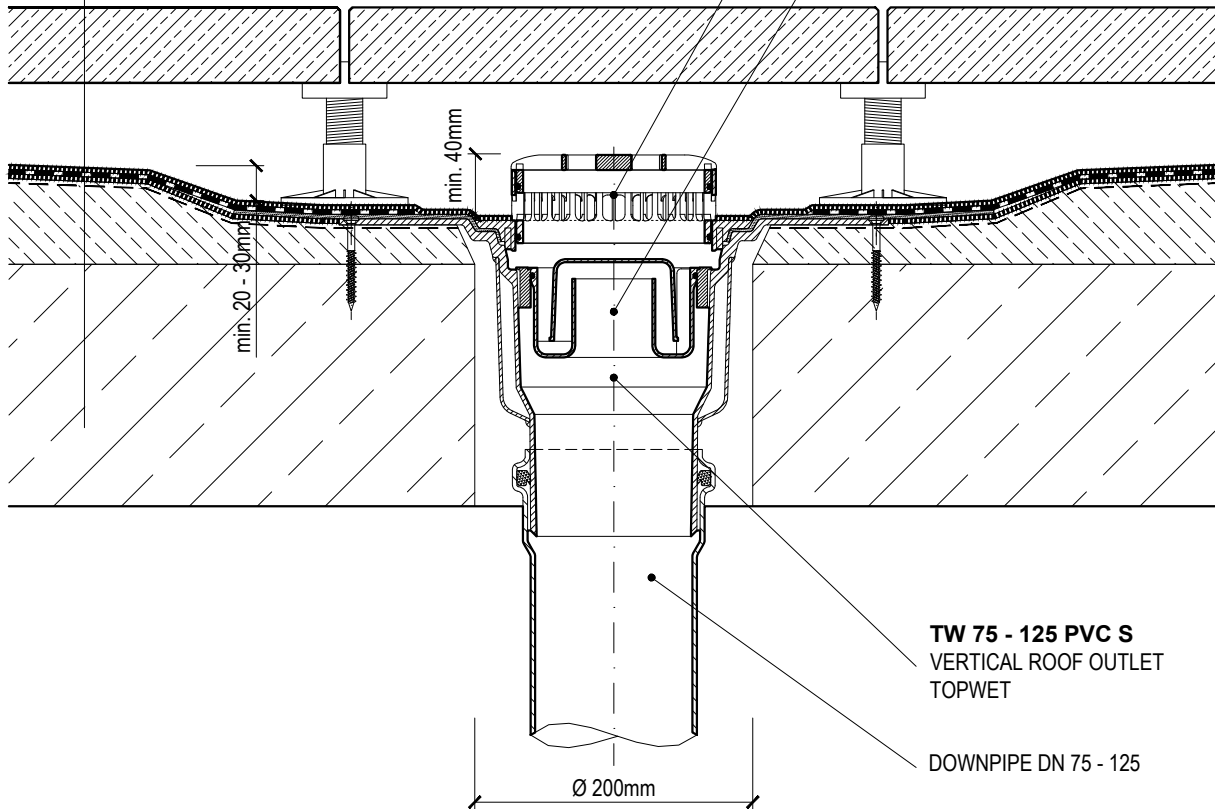
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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

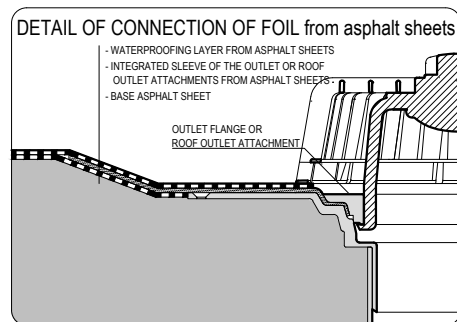
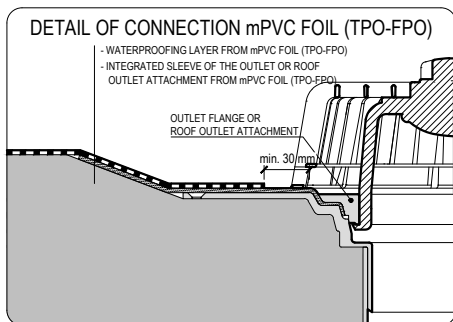
TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWZU
WATER STINK TRAP - ONLY FOR INTERIORS



TW 75 - 125 PVC S
VERTICAL ROOF OUTLET
TOPWET

DOWNPIPE DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC S, TWOK v33, TWZU**

Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

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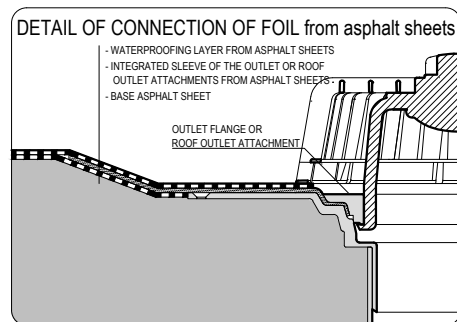
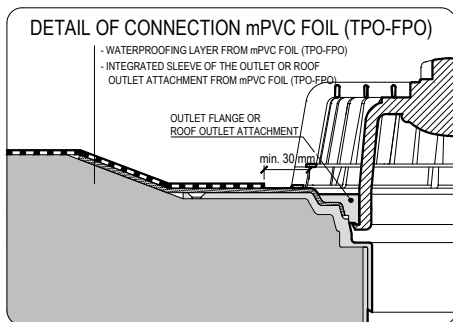
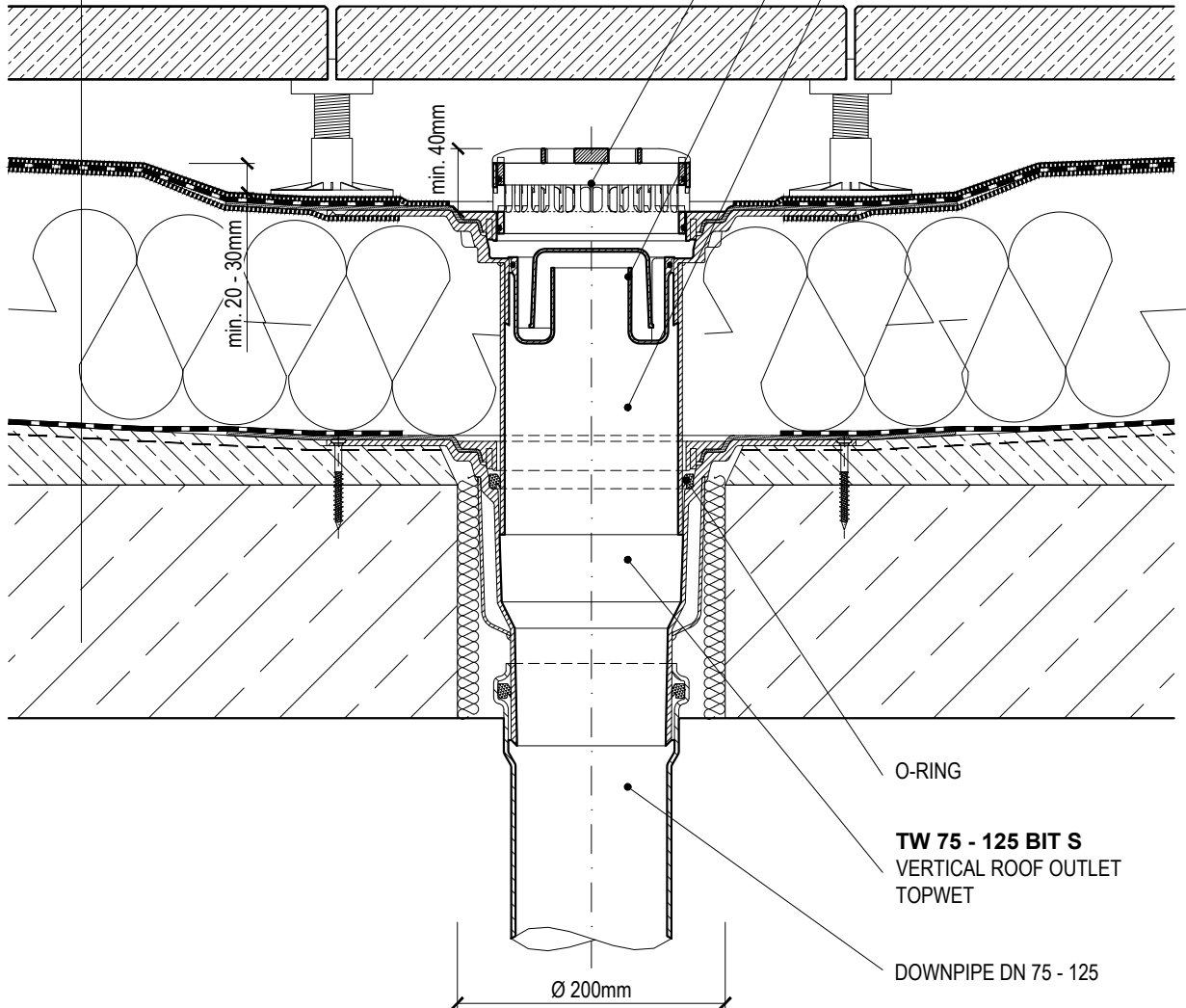
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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWZU KL
MECHANICAL STINK FLAP

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF OUTLETS



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWOK v33, TWZU**

Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

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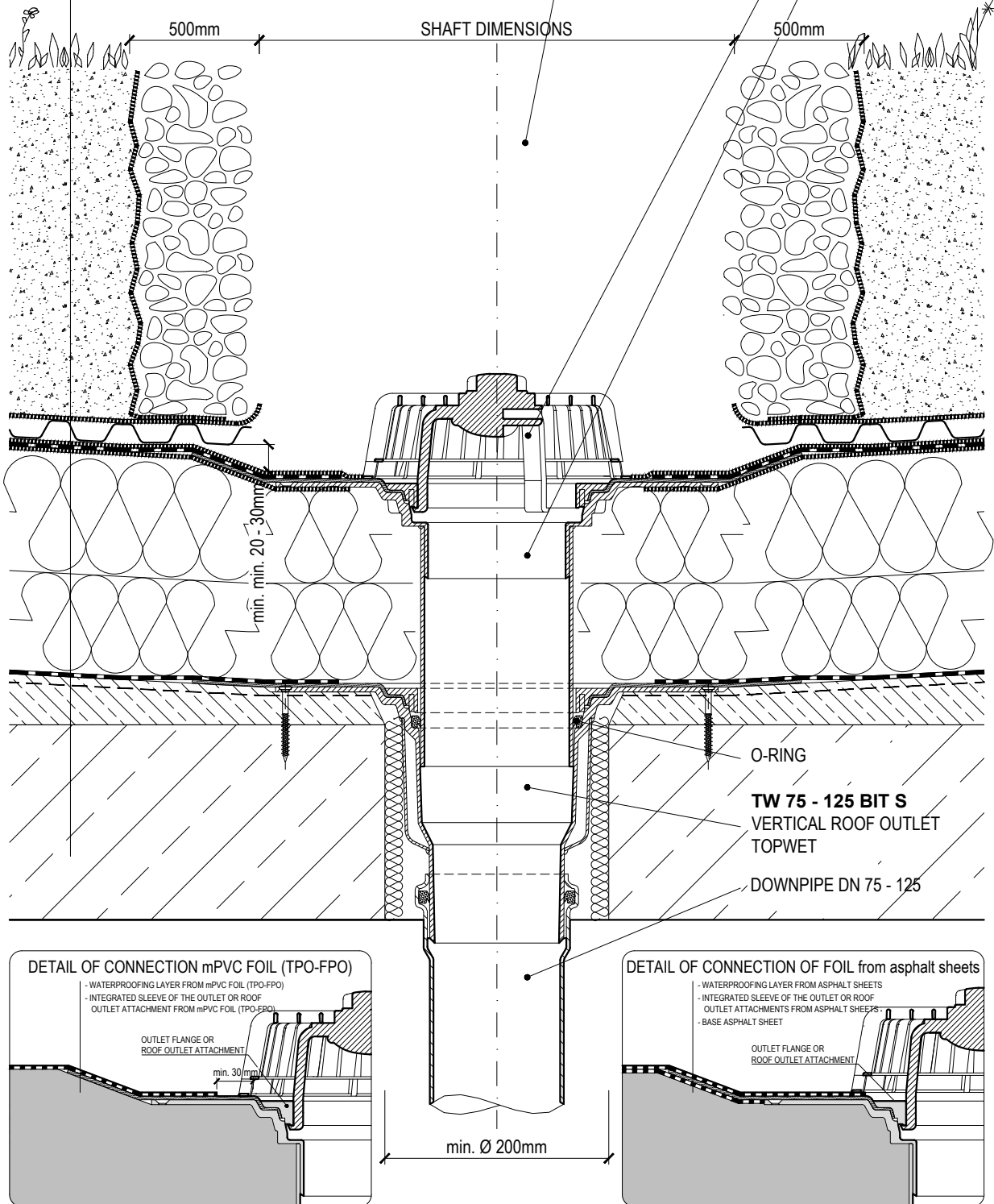
- GREENERY
- ROOF SUBSTRATE
- FILTRATION LAYER
- WATER ACCUMULATION LAYER
- PROTECTIVE LAYER
- WATERPROOFING LAYER
RESISTANT TO ROOTS 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWZ 400x400x130
SHAFT FOR GREEN ROOFS
WITH WALKABLE GRID

TWZN v100 400x400
TWZN v50 400x400
SHAFT ATTACHMENT
FOR GREEN ROOFS

TWK
PROTECTIVE BASKET

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS



DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)

- WATERPROOFING LAYER FROM mPVC FOIL (TPO-FPO)
- INTEGRATED SLEEVE OF THE OUTLET OR ROOF
- OUTLET ATTACHMENT FROM mPVC FOIL (TPO-FPO)

OUTLET FLANGE OR
ROOF OUTLET ATTACHMENT

min. 30mm

DETAIL OF CONNECTION OF FOIL from asphalt sheets

- WATERPROOFING LAYER FROM ASPHALT SHEETS
- INTEGRATED SLEEVE OF THE OUTLET OR ROOF
- OUTLET ATTACHMENTS FROM ASPHALT SHEETS
- BASE ASPHALT SHEET

OUTLET FLANGE OR
ROOF OUTLET ATTACHMENT

min. Ø 200mm

Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED GREEN ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWZ 40x40x33**

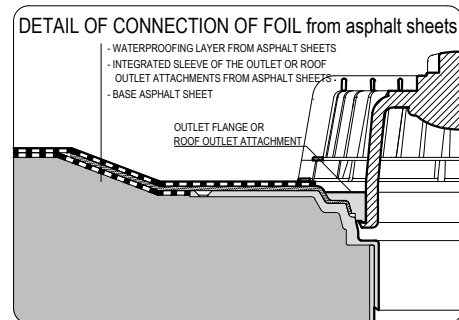
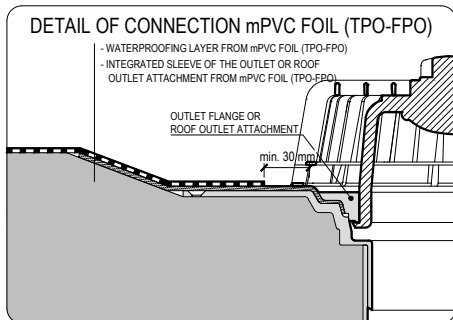
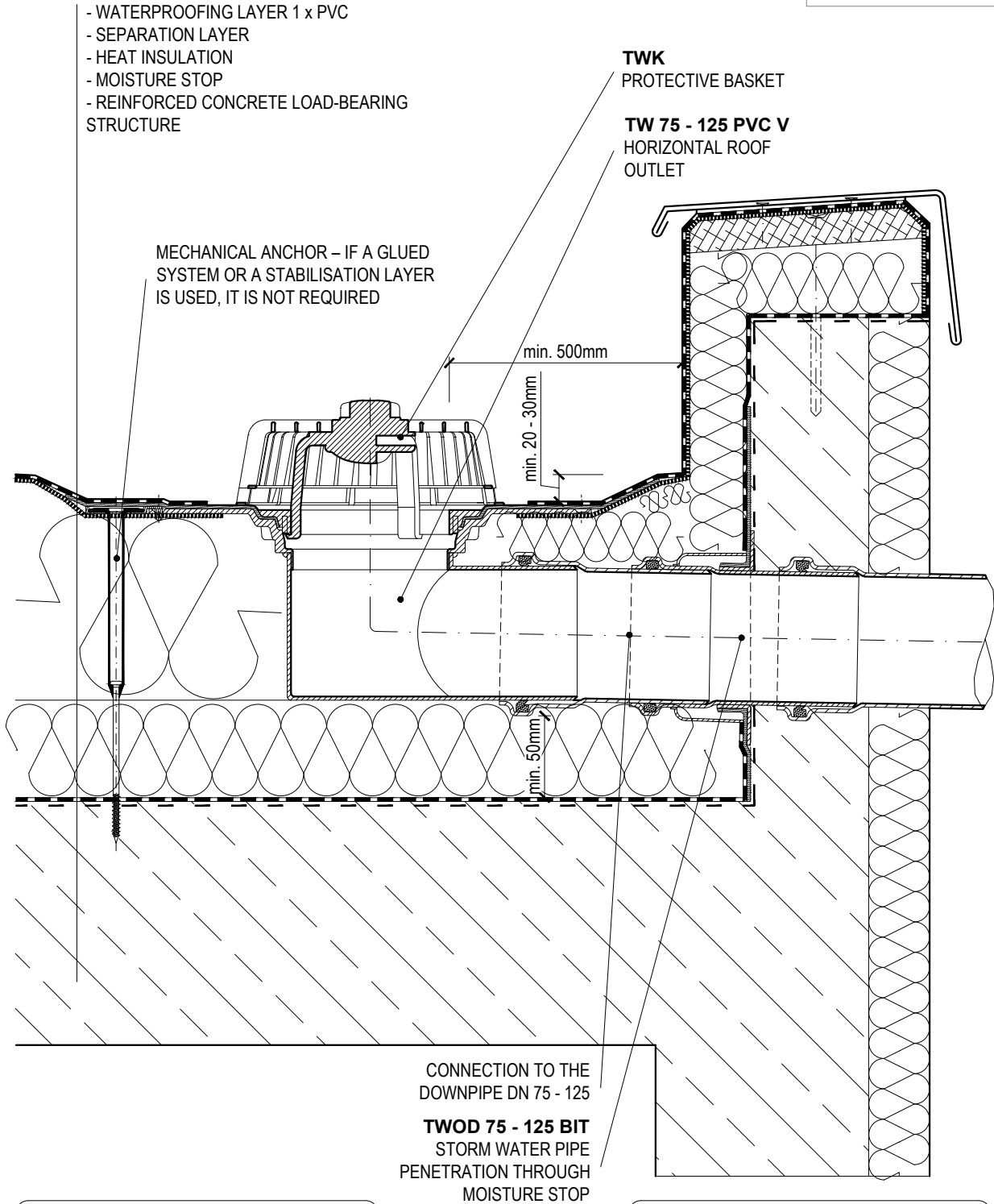
Scale **1:5**

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Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC V, TWOD 110 BIT**

Scale **1:5**

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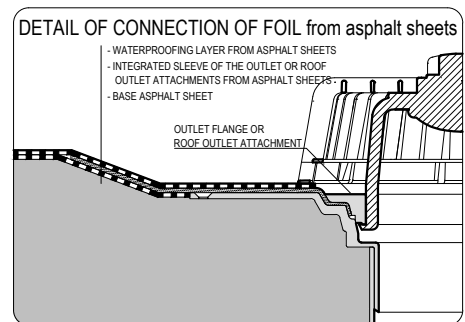
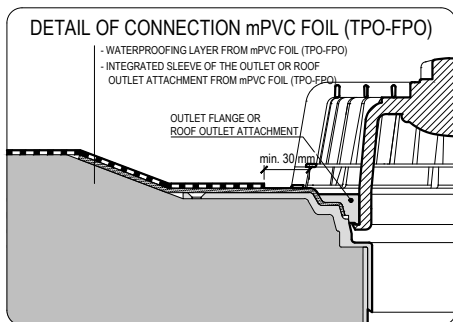
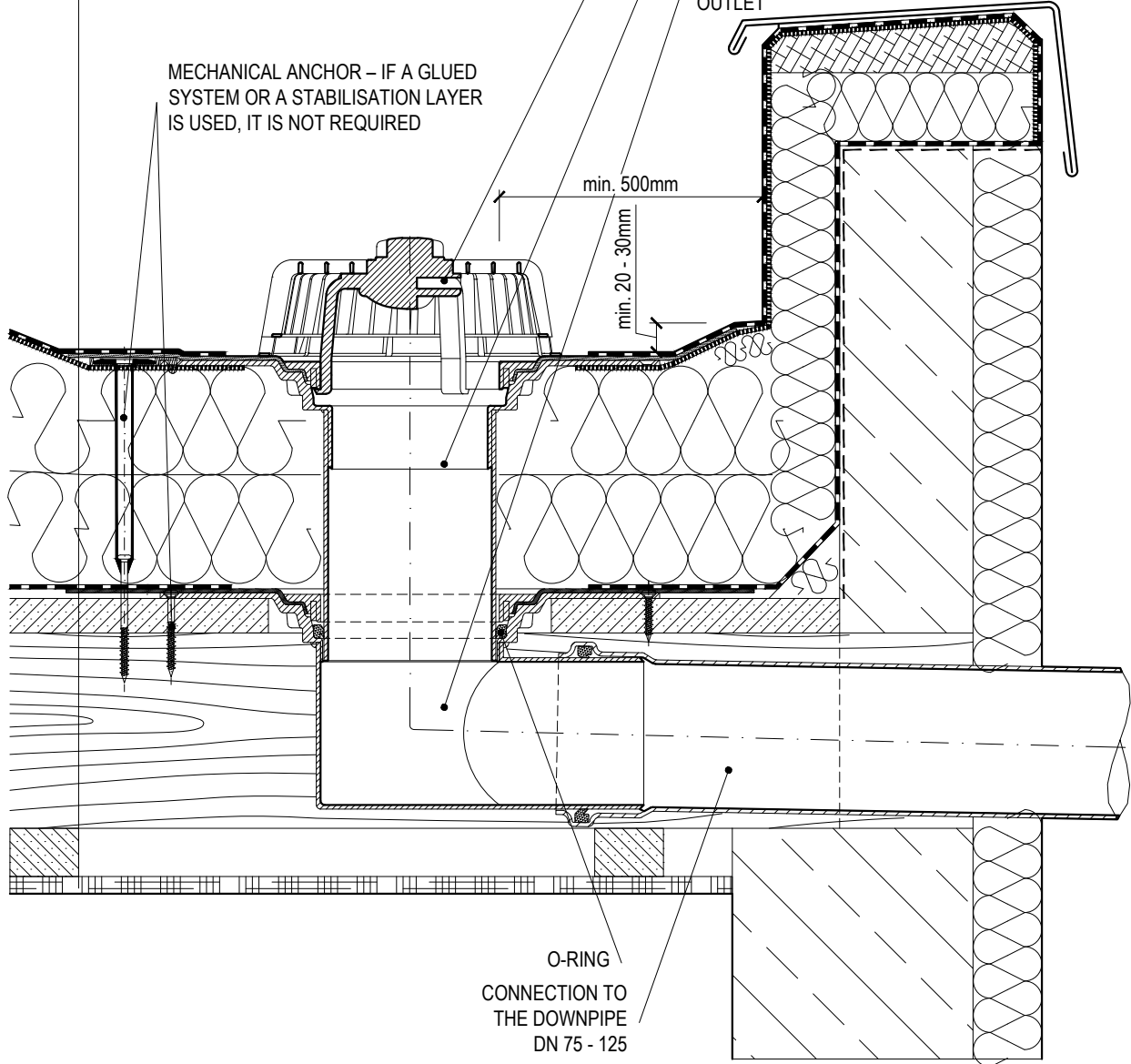
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- WOODEN COVER
- WOODEN LOAD-BEARING STRUCTURE
- SUSPENDED CEILING

TWK
PROTECTIVE BASKET

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS

TW 75 - 125 BIT V
HORIZONTAL ROOF
OUTLET

MECHANICAL ANCHOR – IF A GLUED
SYSTEM OR A STABILISATION LAYER
IS USED, IT IS NOT REQUIRED



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **WOOD**

Components **TW 110 BIT V, TWN 220 PVC**

Scale **1:5**

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OF FLAT ROOFS

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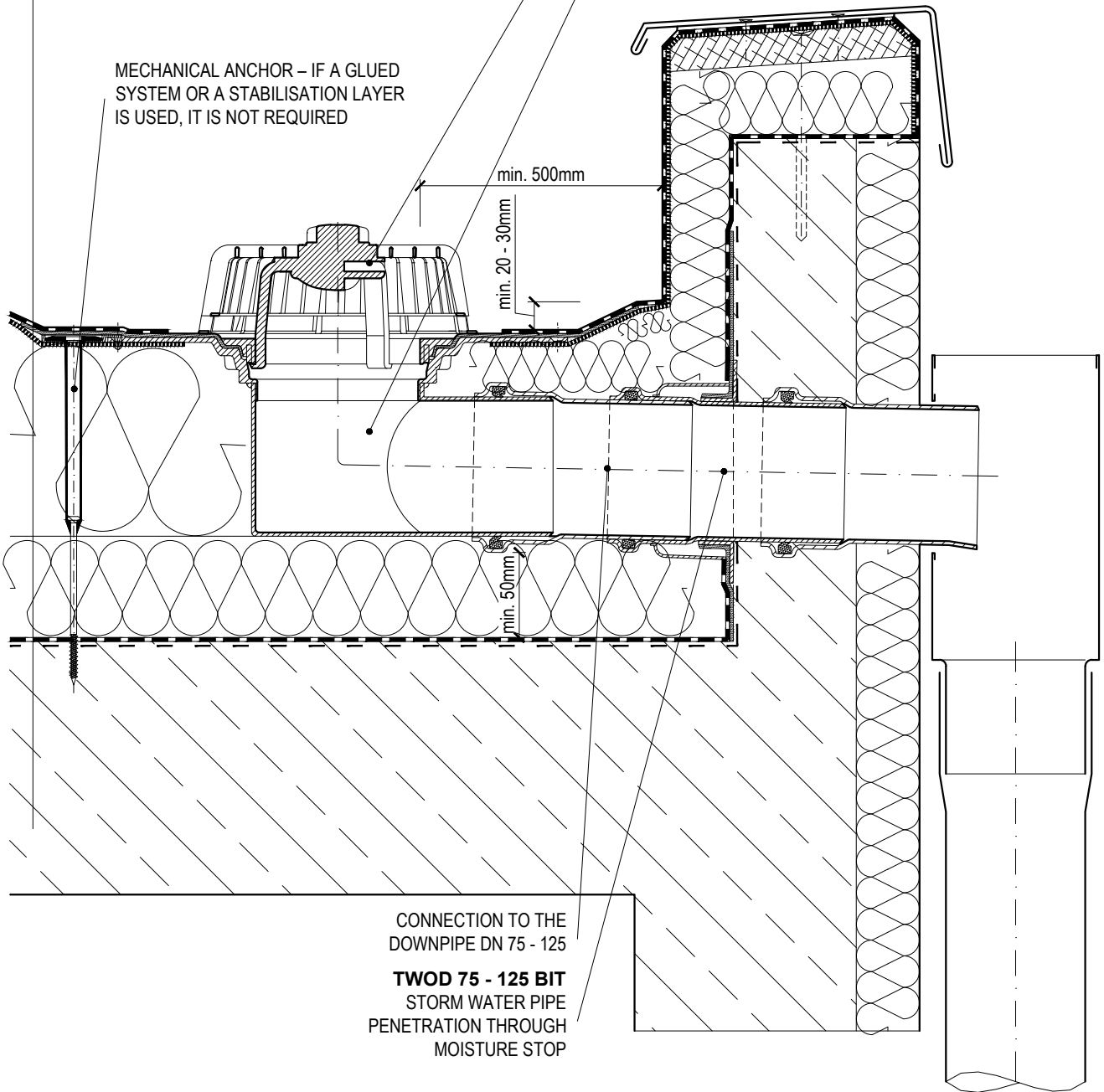
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- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWK
PROTECTIVE BASKET

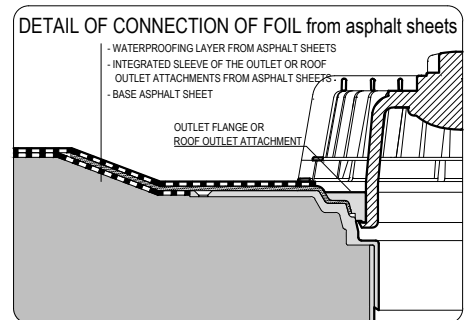
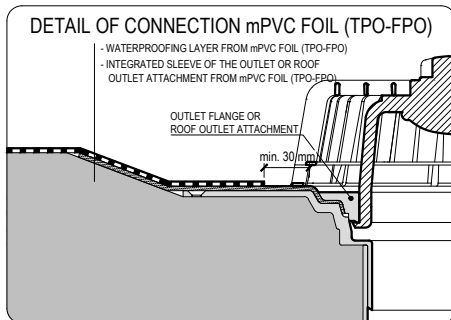
TW 75 - 125 PVC V
HORIZONTAL ROOF
OUTLET

MECHANICAL ANCHOR – IF A GLUED SYSTEM OR A STABILISATION LAYER IS USED, IT IS NOT REQUIRED



CONNECTION TO THE
DOWNPIPE DN 75 - 125

TWOD 75 - 125 BIT
STORM WATER PIPE
PENETRATION THROUGH
MOISTURE STOP



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC V, TWOD 110 BIT**

Scale **1:5**

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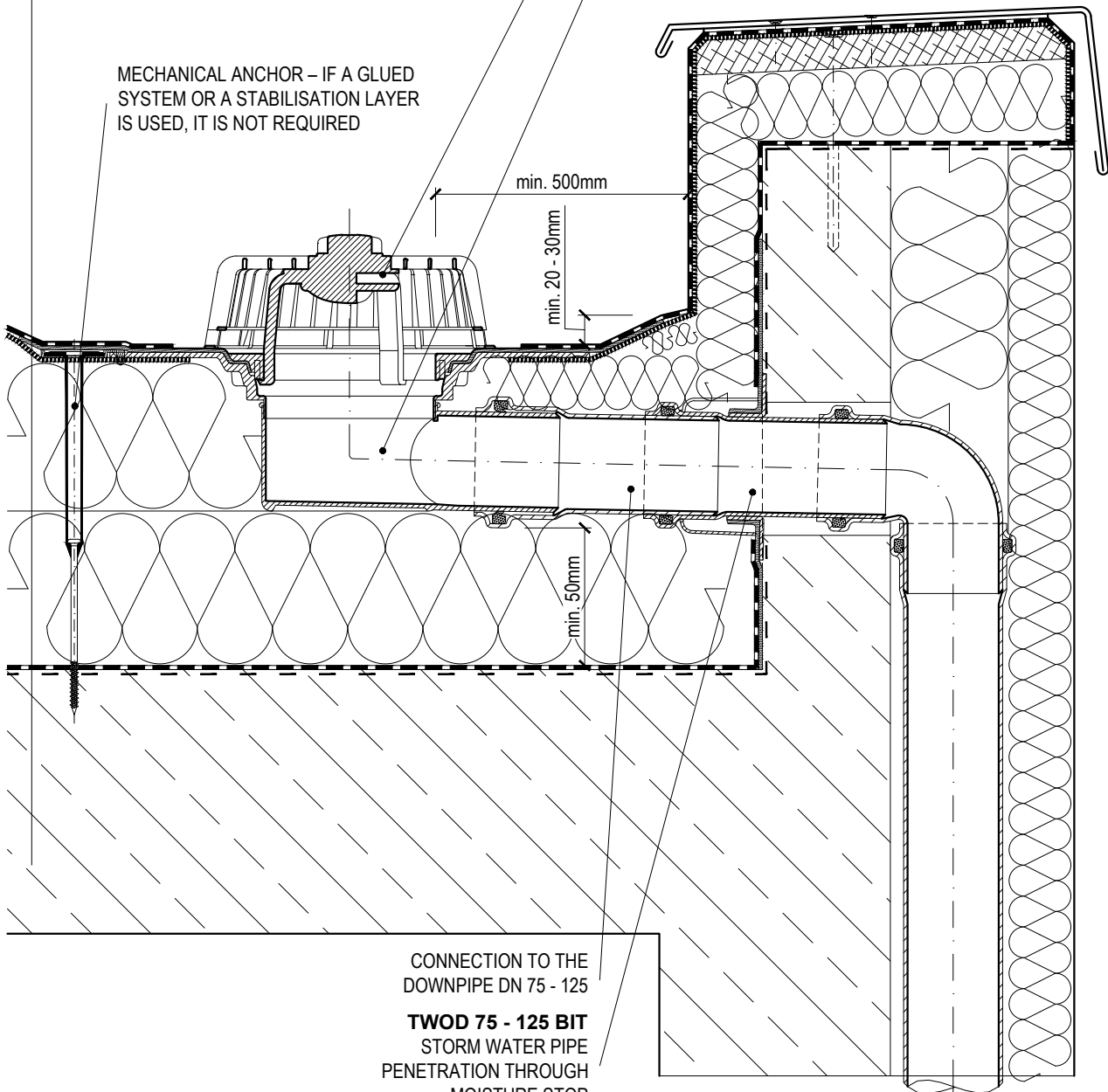
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- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWK
PROTECTIVE BASKET

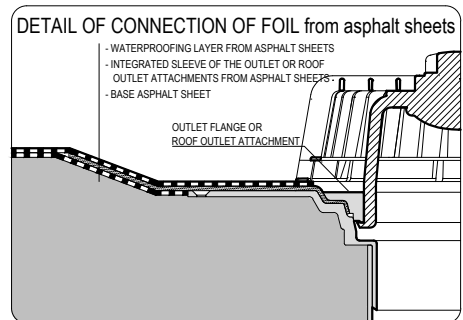
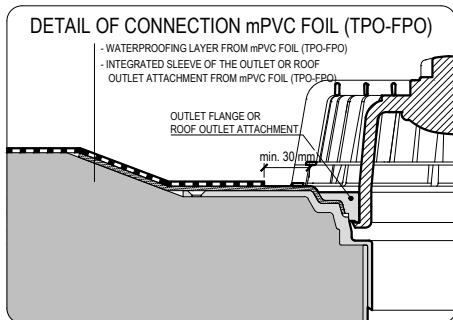
TW 75 - 125 PVC V
HORIZONTAL ROOF
OUTLET

MECHANICAL ANCHOR – IF A GLUED SYSTEM OR A STABILISATION LAYER IS USED, IT IS NOT REQUIRED



CONNECTION TO THE
DOWNPIPE DN 75 - 125

TWOD 75 - 125 BIT
STORM WATER PIPE
PENETRATION THROUGH
MOISTURE STOP



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 75 PVC V, TWOD 75 BIT**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

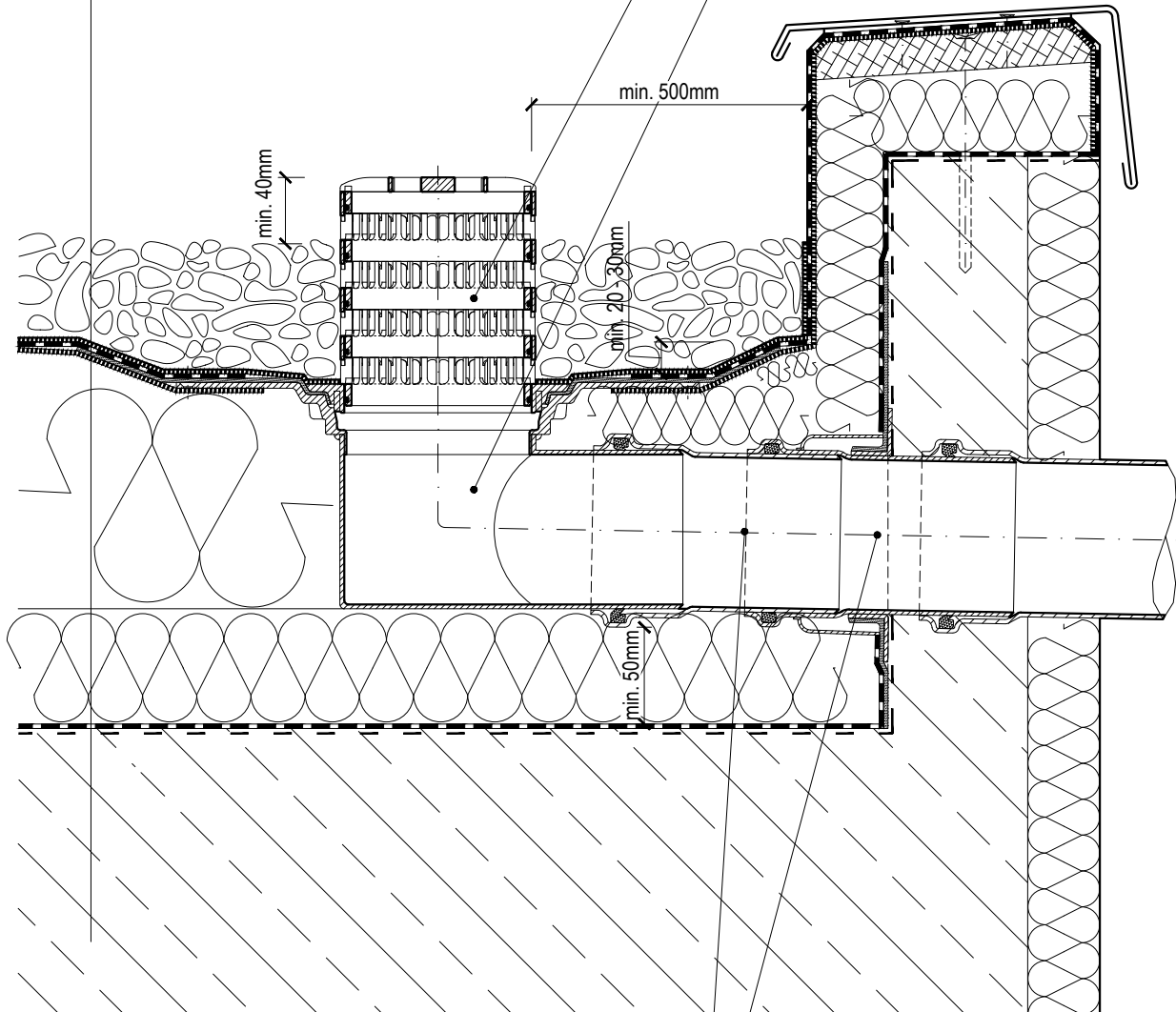
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- SHINGLE
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

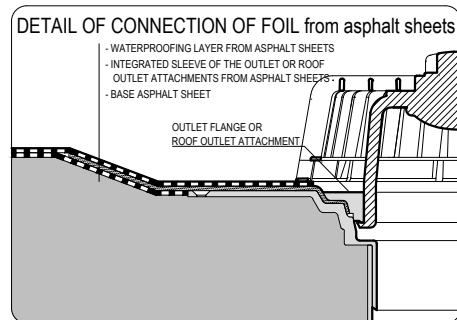
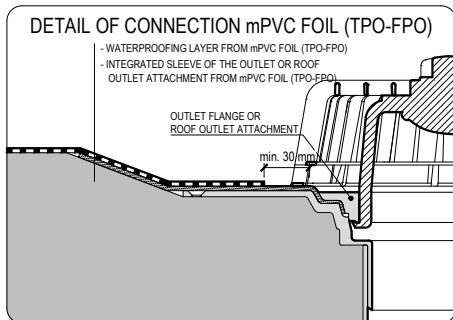
TWOK v100-200
PERFORATED BASKET
FOR ROOFS WITH
SHINGLE

TW 75 - 125 PVC V
HORIZONTAL ROOF
OUTLET



CONNECTION TO THE
DOWNPIPE DN 75 - 125

TWOD 75 - 125 BIT
STORM WATER PIPE
PENETRATION THROUGH
MOISTURE STOP



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC V, TWOD 110 BIT, TWOK v140**

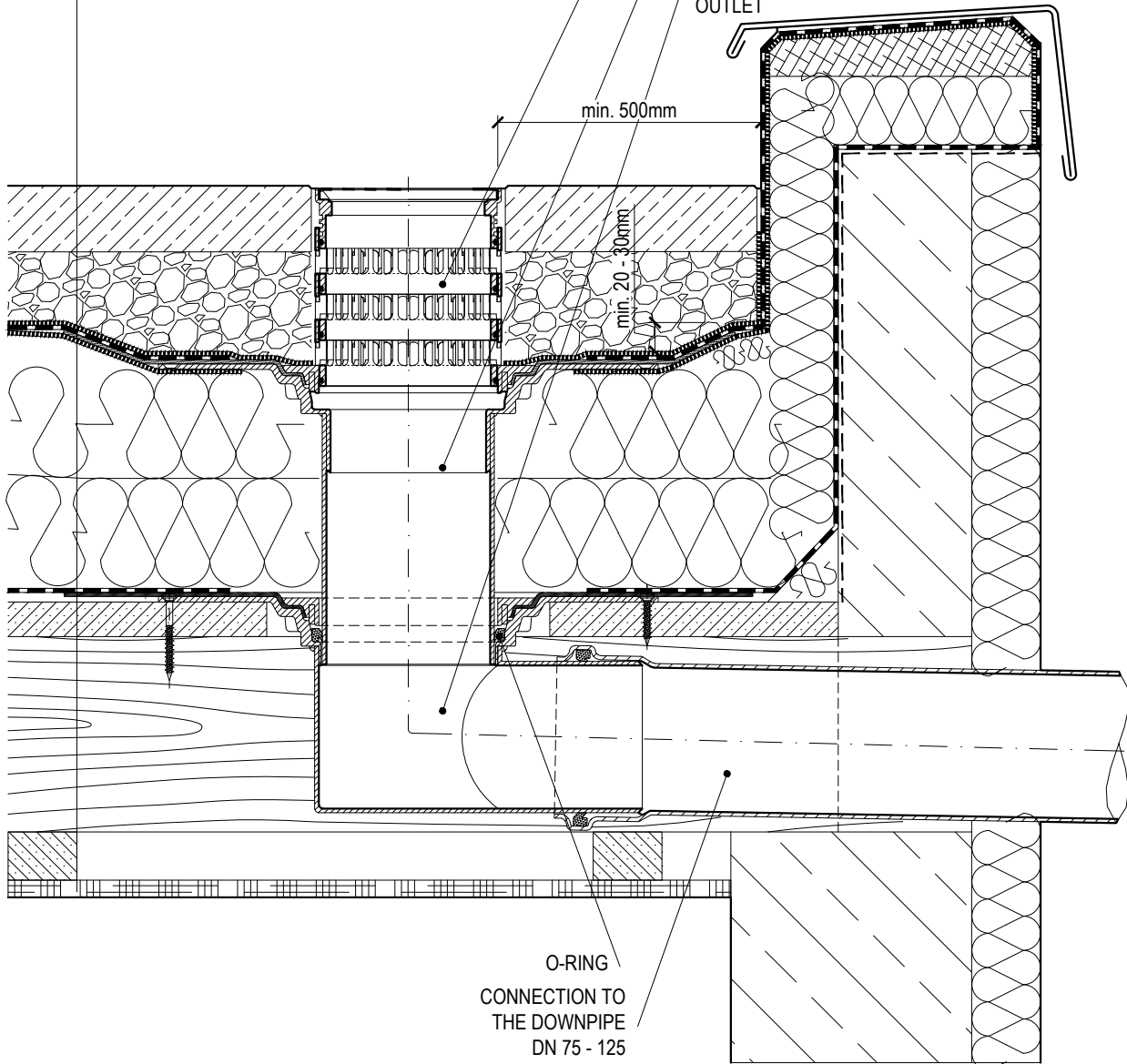
Scale **1:5**

- PAVING
- SHINGLE SUBBASE
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- WOODEN COVER
- WOODEN LOAD-BEARING STRUCTURE
- SUSPENDED CEILING

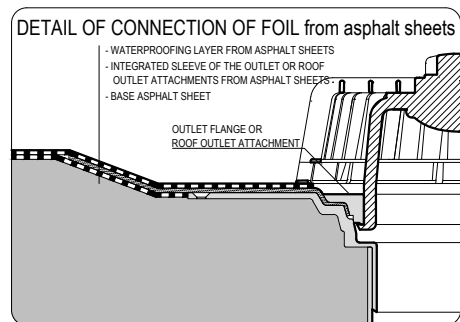
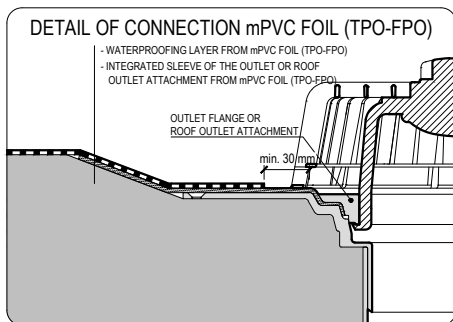
TW TER P
TERRACE ATTACHMENT FOR
ROOF OUTLETS, PAVING IN
SUBBASE

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS

TW 75 - 125 BIT V
HORIZONTAL ROOF
OUTLET



O-RING
CONNECTION TO
THE DOWNPIPE
DN 75 - 125



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **WOOD**

Components **TW 110 BIT V, TWN 220 PVC, TW TER P**

Scale **1:5**

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OF FLAT ROOFS

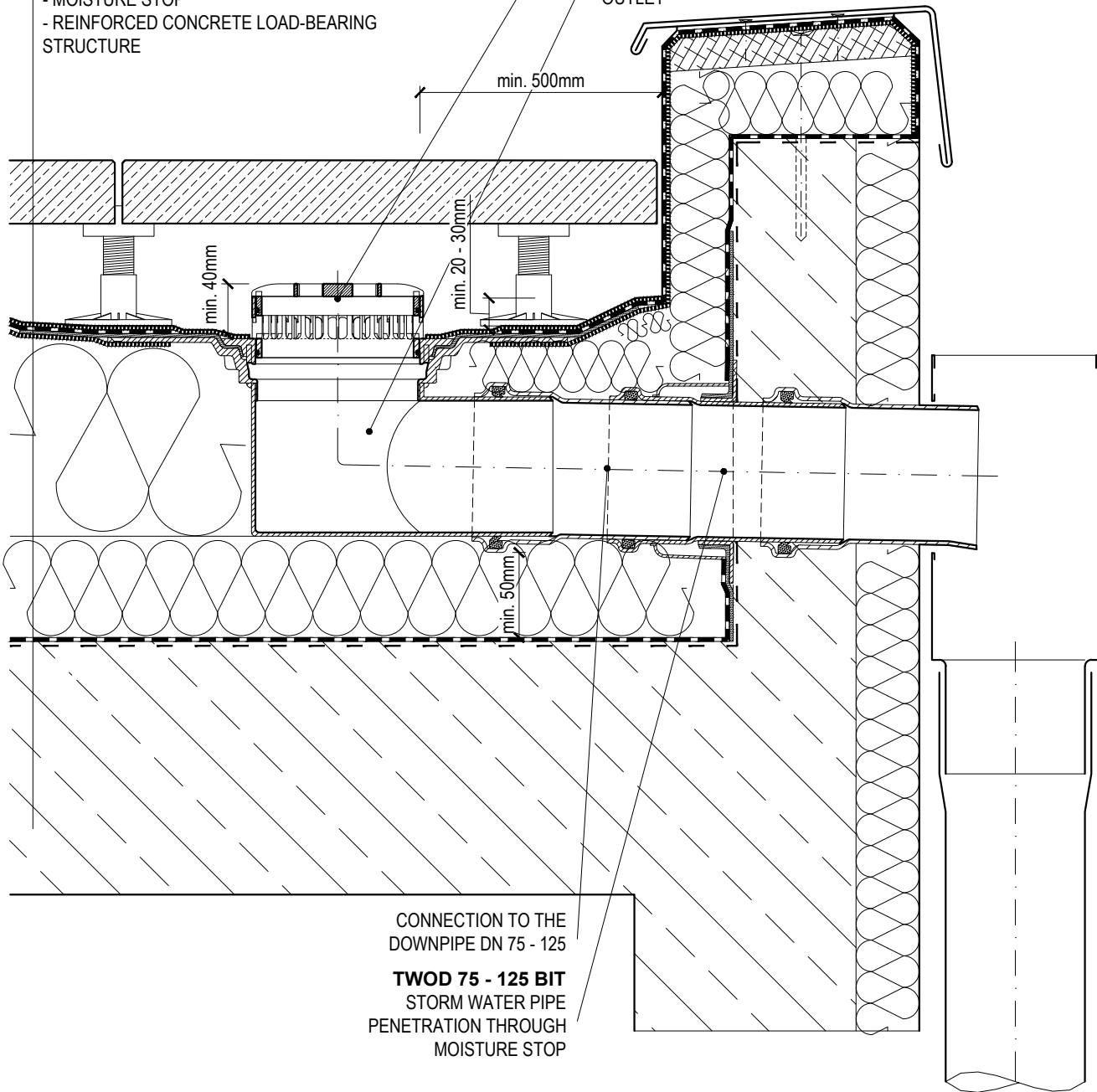
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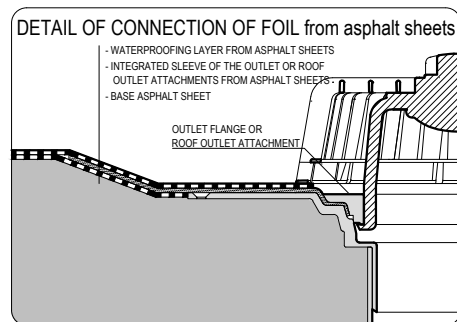
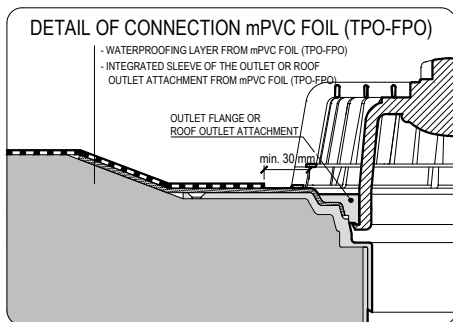
- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TW 75 - 125 PVC V
HORIZONTAL ROOF OUTLET



CONNECTION TO THE DOWNPIPE DN 75 - 125
TWOD 75 - 125 BIT
STORM WATER PIPE PENETRATION THROUGH MOISTURE STOP



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC V, TWOD 110 BIT, TWOK v33**

Scale **1:5**

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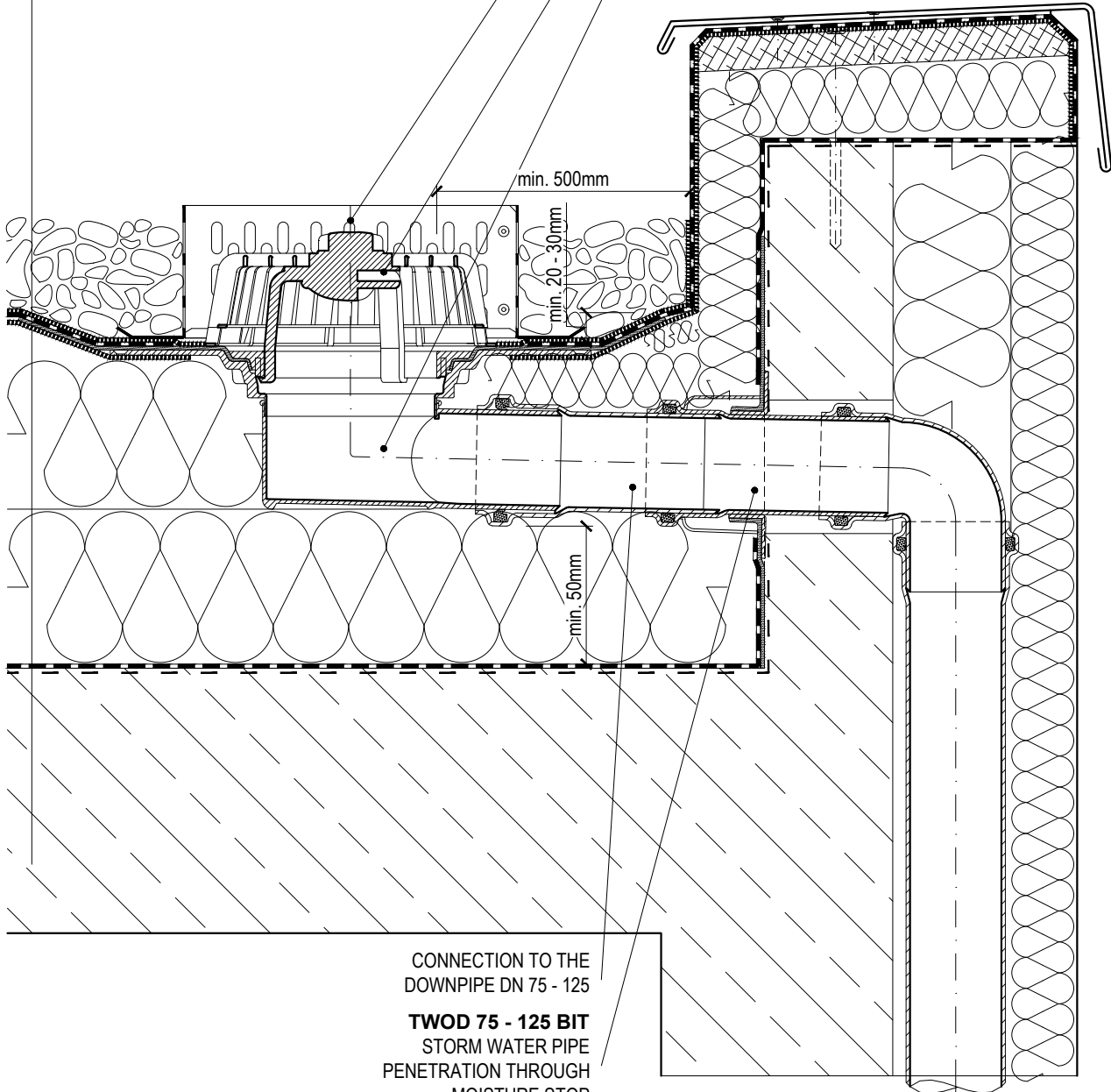
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- SHINGLE
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWS 250x250x100
ALUMINIUM SHAFT FOR
ROOF WITH SHINGLE

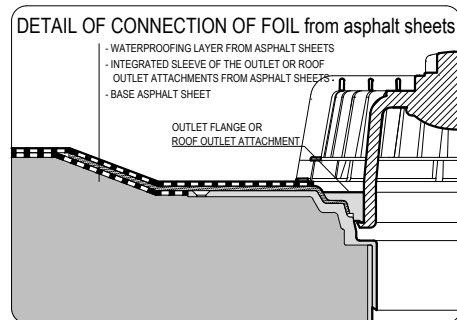
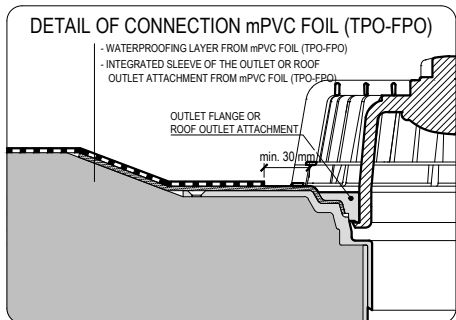
TWK
PROTECTIVE BASKET

TW 75 - 125 PVC V
HORIZONTAL ROOF
OUTLET



CONNECTION TO THE
DOWNPIPE DN 75 - 125

TWOD 75 - 125 BIT
STORM WATER PIPE
PENETRATION THROUGH
MOISTURE STOP



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 75 PVC V, TWOD 75 BIT, TWS 25x25x100**

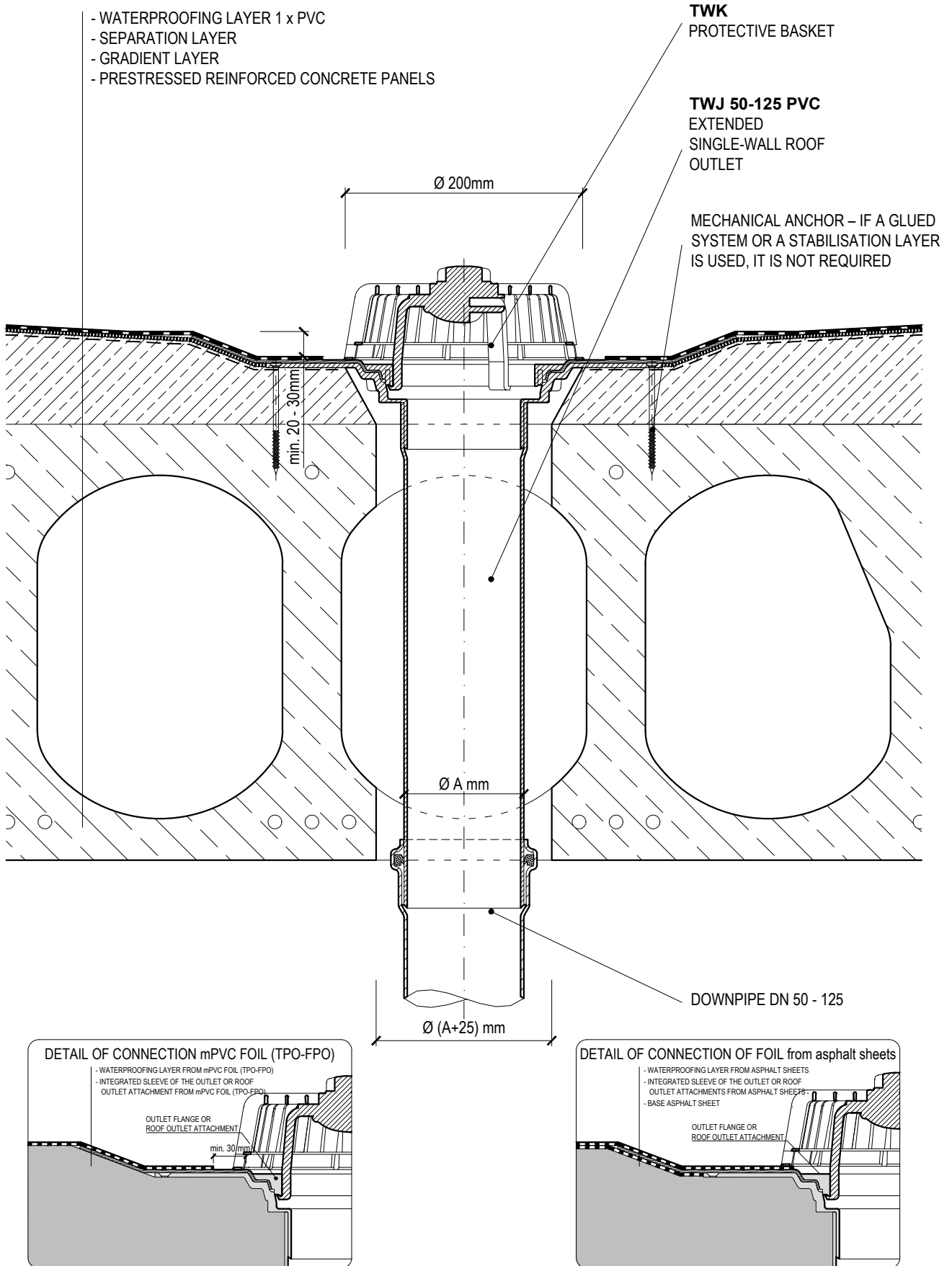
Scale **1:5**

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OF FLAT ROOFS

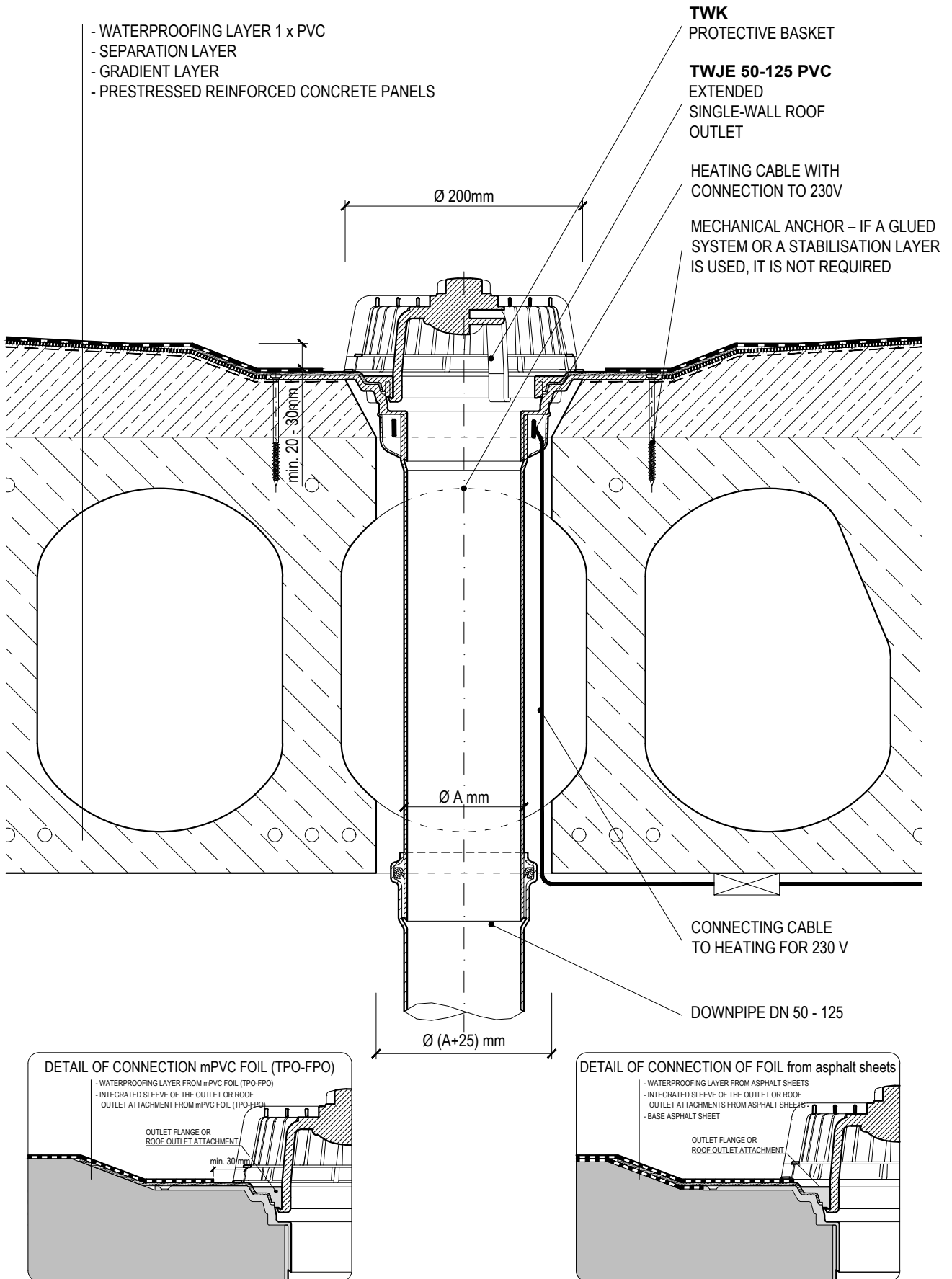
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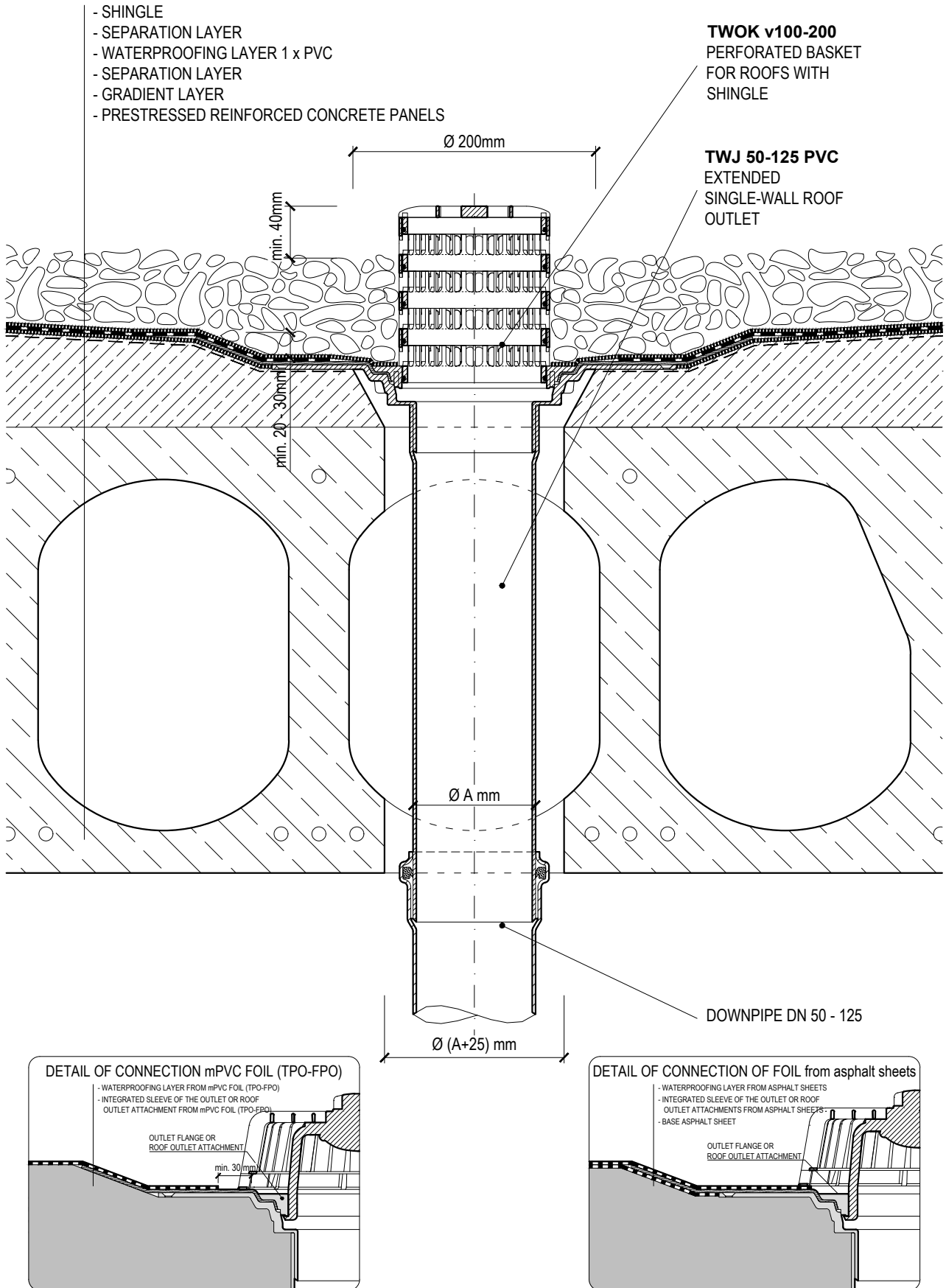
Name	DETAIL OF THE ROOF OUTLET FIT
Type	SINGLE-DECK HEAT UNINSULATED ROOF
Construction	PRESTRESSED REINFORCED CONCRETE PANELS
Components	TWJ 110 PVC

Scale 1:5



Name	DETAIL OF THE ROOF OUTLET FIT
Type	SINGLE-DECK HEAT UNINSULATED ROOF
Construction	PRESTRESSED REINFORCED CONCRETE PANELS
Components	TWJE 110 PVC

Scale 1:5



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF**

Construction **PRESTRESSED REINFORCED CONCRETE PANELS**

Components **TWJ 110 PVC, TWOK v140**

Scale **1:5**

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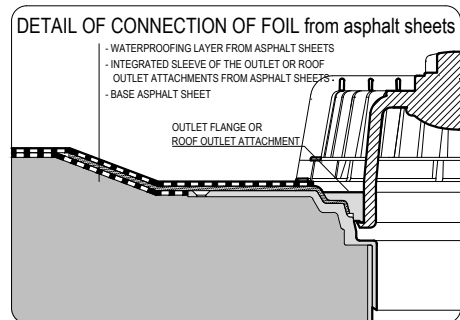
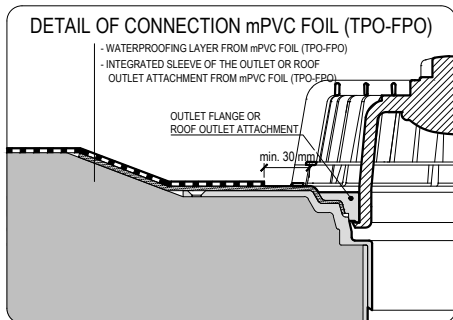
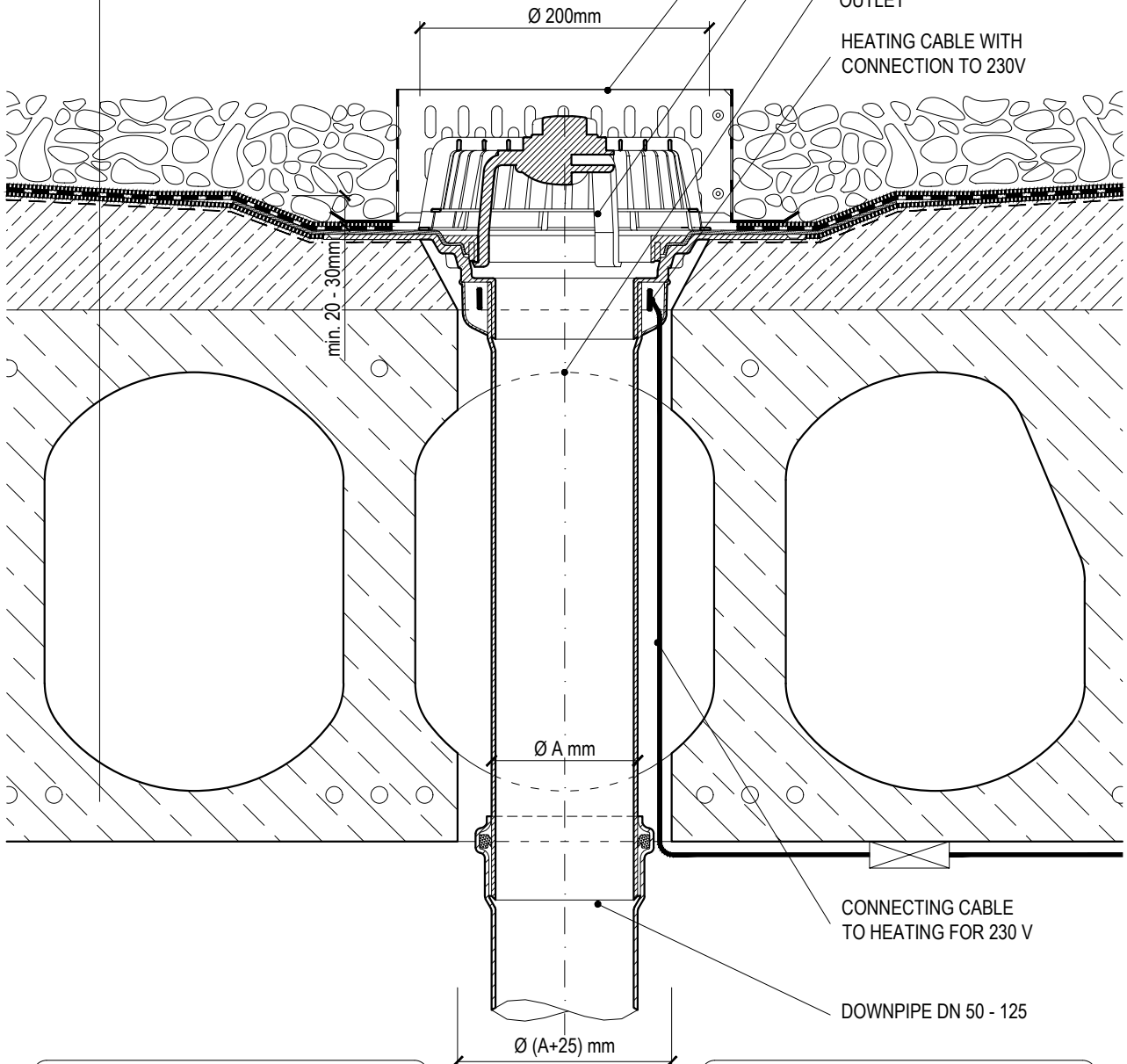
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OF FLAT ROOFS

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- SHINGLE
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- GRADIENT LAYER
- PRESTRESSED REINFORCED CONCRETE PANELS

- TWS 250x250x100**
ALUMINIUM SHAFT FOR ROOF WITH SHINGLE
- TWK**
PROTECTIVE BASKET
- TWJE 50-125 PVC**
EXTENDED
SINGLE-WALL ROOF
OUTLET
- HEATING CABLE WITH CONNECTION TO 230V



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT UNINSULATED ROOF**

Construction **PRESTRESSED REINFORCED CONCRETE PANELS**

Components **TWJE 110 PVC, TWS 25x25x10**

Scale **1:5**

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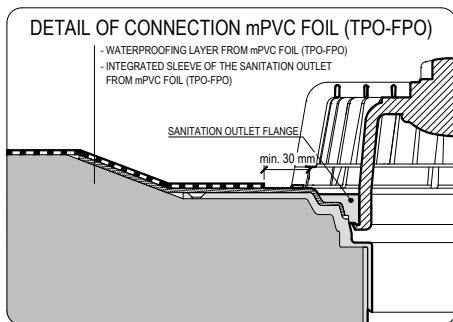
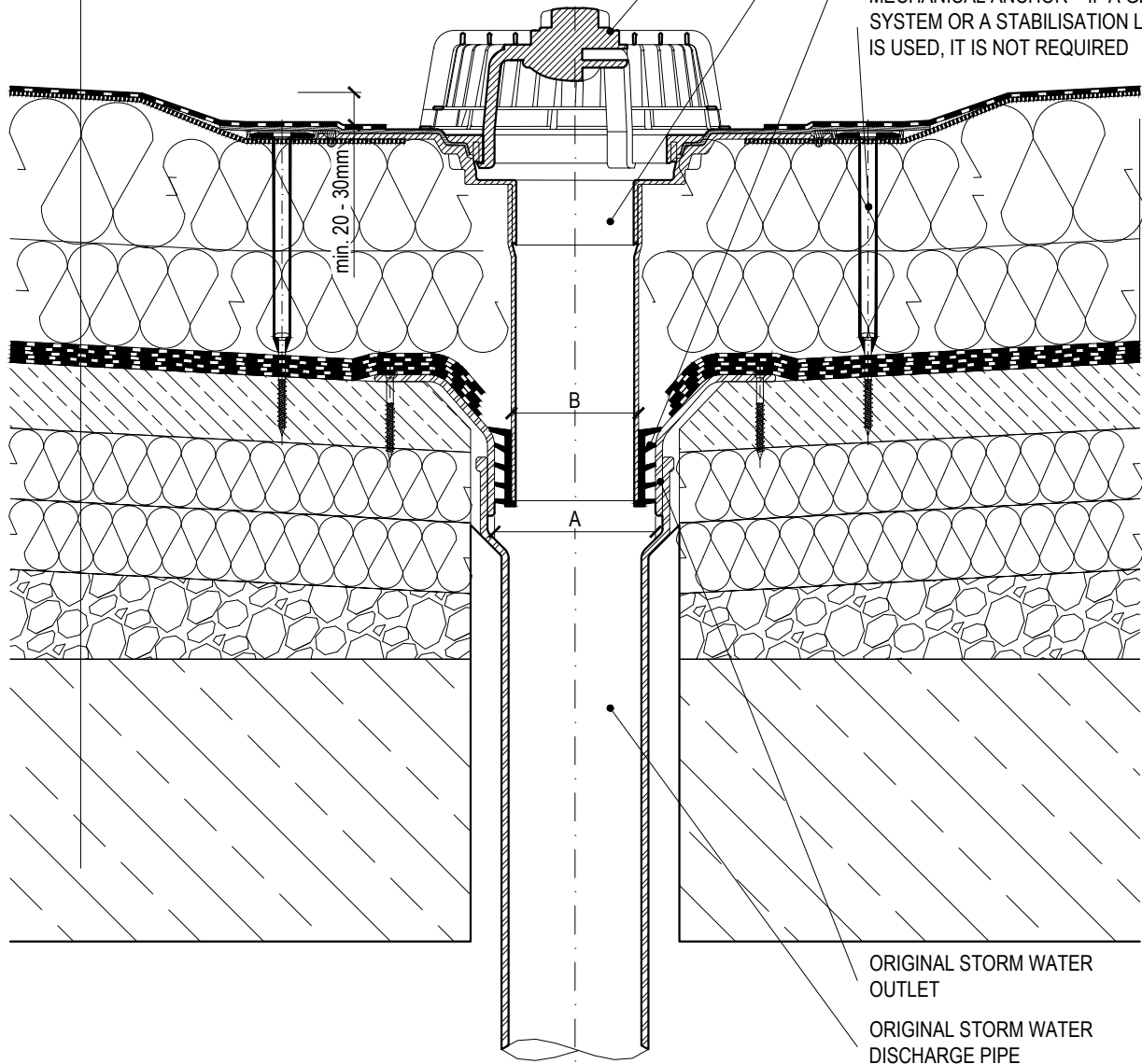
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP, ORIGINAL ROOF DECK
- CONCRETE SCREED
- HEAT INSULATION - ORIGINAL
- GRADIENT LAYER, KERAMZITE
- ORIGINAL LOAD-BEARING STRUCTURE

TWK
PROTECTIVE BASKET

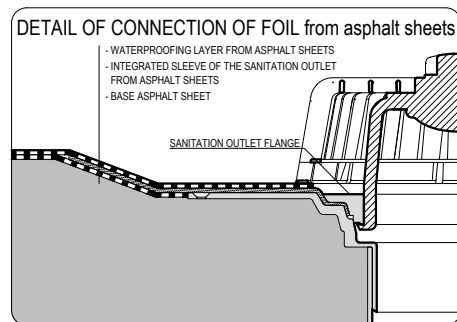
TW SAN 50 - 125 PVC
SANITATION OUTLET
FLANGE

TW SAN TES
SANITATION GASKET

MECHANICAL ANCHOR – IF A GLUED
SYSTEM OR A STABILISATION LAYER
IS USED, IT IS NOT REQUIRED



Ø A	Ø B
54-72 mm	SAN 50
79-102 mm	SAN 75
99-106 mm	SAN 90
109-116 mm	SAN 104
116-129 mm	SAN 110
144-154 mm	SAN 125
186-200 mm	SAN 160



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF, RECONSTRUCTION**

Construction **REINFORCED CONCRETE**

Components **TW SAN 90 PVC**

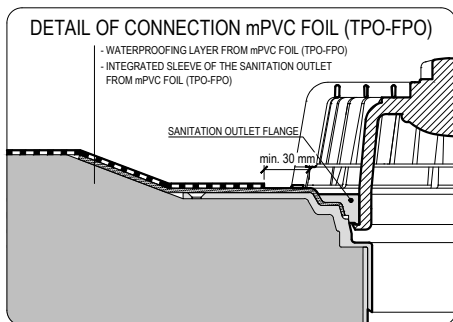
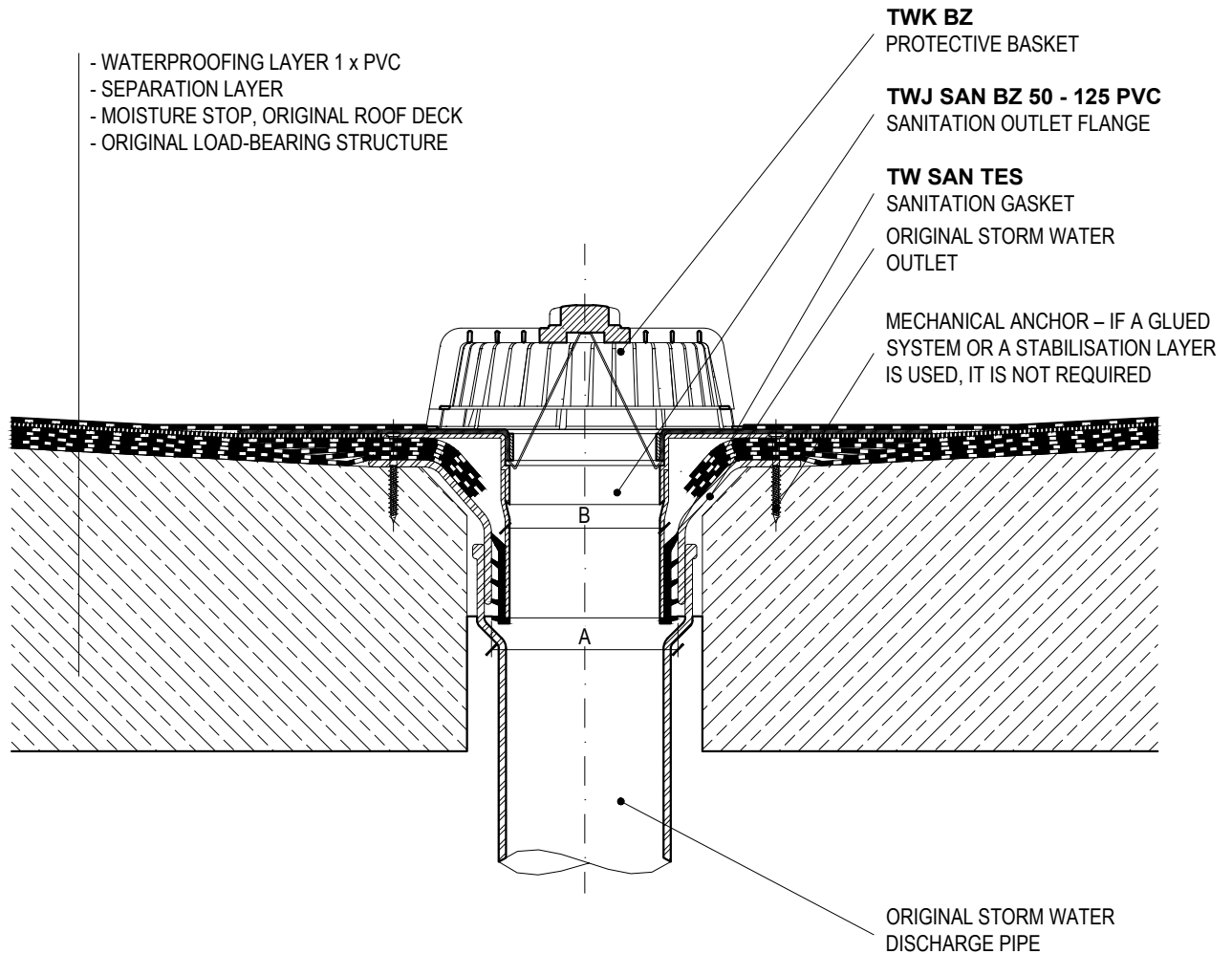
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TOPWET

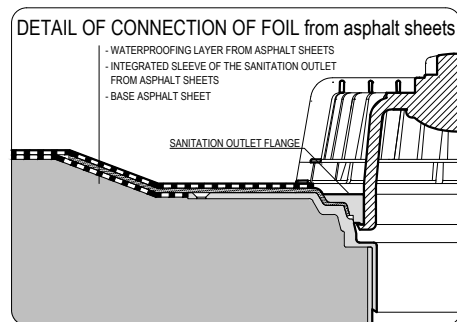
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OF FLAT ROOFS

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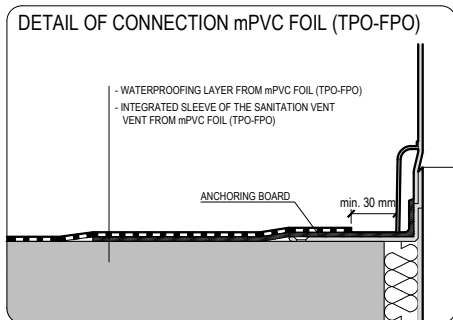
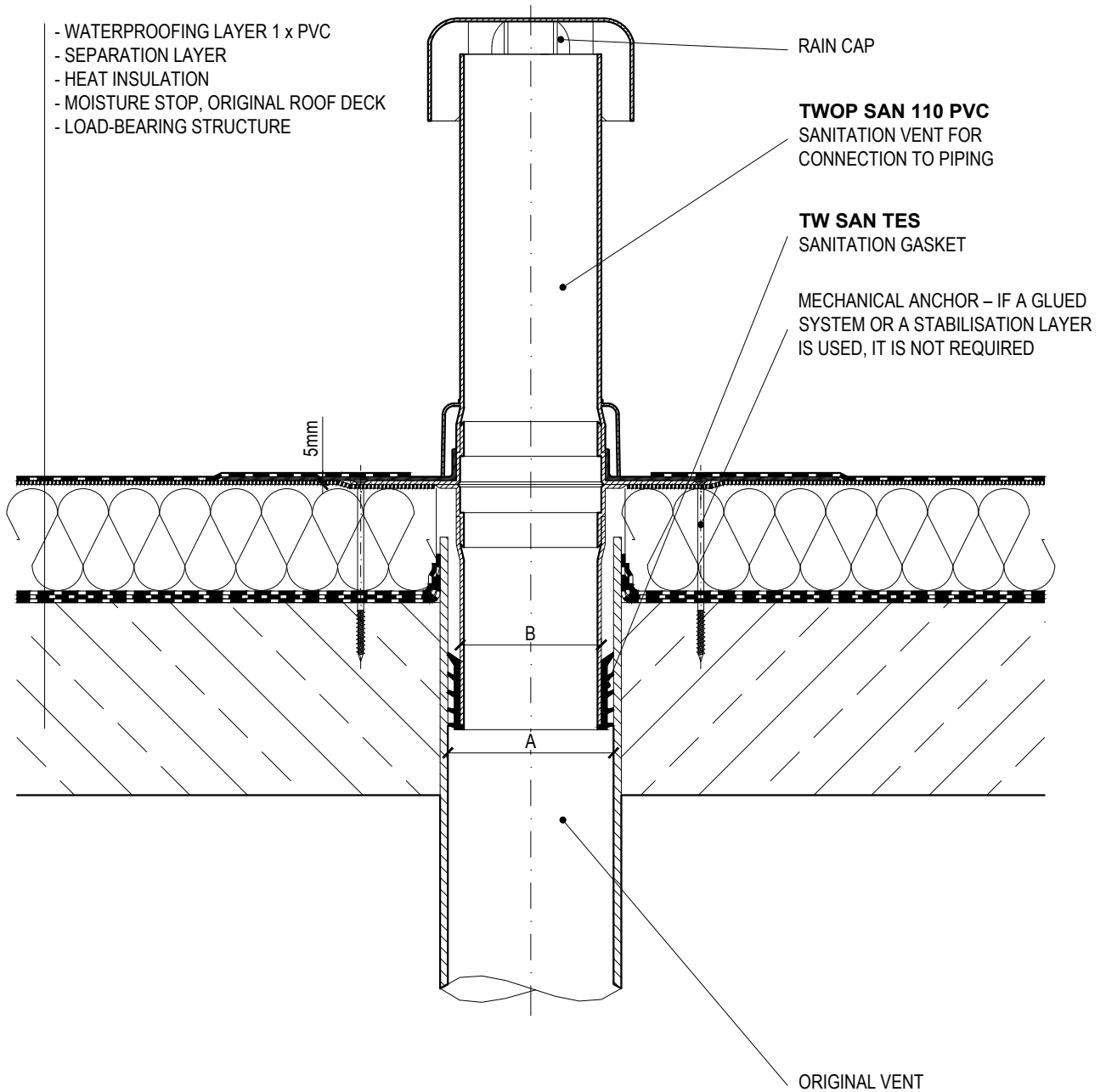


Ø A	Ø B
54-72 mm	SAN 50
79-102 mm	SAN 75
99-106 mm	SAN 90
109-116 mm	SAN 104
116-129 mm	SAN 110
144-154 mm	SAN 125
186-200 mm	SAN 160

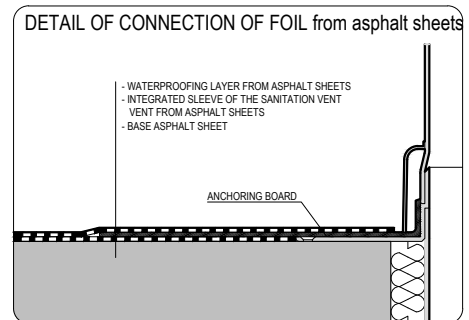


Name	DETAIL OF THE ROOF OUTLET FIT
Type	SINGLE-DECK HEAT UNINSULATED NON-WALKABLE ROOF, RECONSTRUCTION
Construction	REINFORCED CONCRETE
Components	TW SAN BZ 110 PVC

Scale 1:5



Ø A	Ø B
54-72 mm	SAN 50
79-102 mm	SAN 75
99-106 mm	SAN 90
109-116 mm	SAN 104
116-129 mm	SAN 110
144-154 mm	SAN 125
186-200 mm	SAN 160



Name **DETAIL OF FITTING THE SANITATION VENT OF SEWERAGE PIPING**

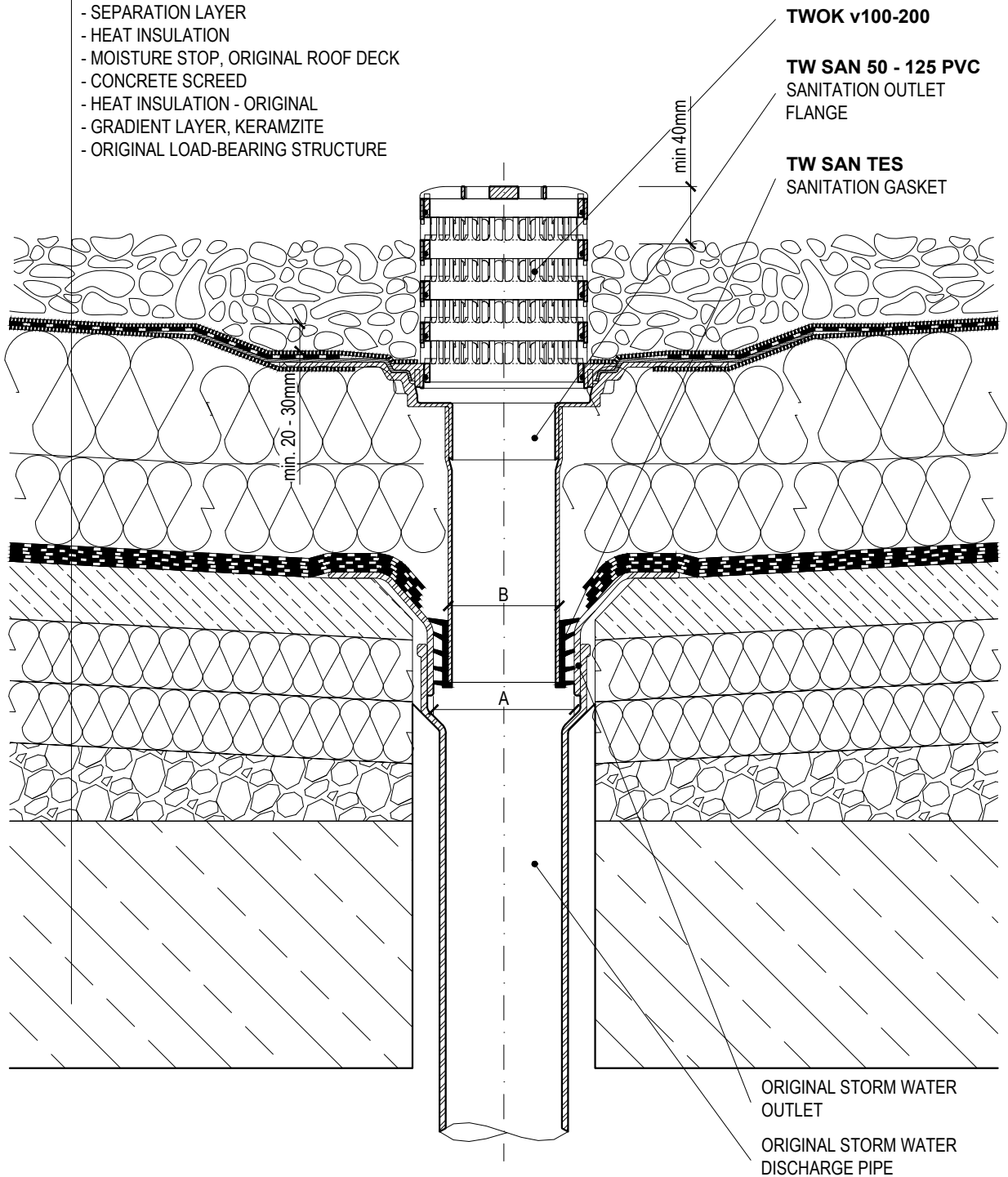
Type **SINGLE-DECK HEAT UNINSULATED NON-WALKABLE ROOF, RECONSTRUCTION**

Construction **REINFORCED CONCRETE**

Components **TWOP SAN 110 PVC**

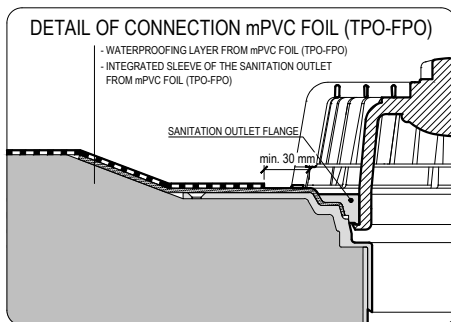
Scale 1:5

- SHINGLE
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP, ORIGINAL ROOF DECK
- CONCRETE SCREED
- HEAT INSULATION - ORIGINAL
- GRADIENT LAYER, KERAMZITE
- ORIGINAL LOAD-BEARING STRUCTURE

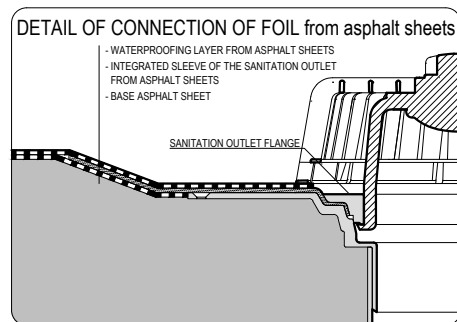


ORIGINAL STORM WATER
OUTLET

ORIGINAL STORM WATER
DISCHARGE PIPE



Ø A	Ø B
54-72 mm	SAN 50
79-102 mm	SAN 75
99-106 mm	SAN 90
109-116 mm	SAN 104
116-129 mm	SAN 110
144-154 mm	SAN 125
186-200 mm	SAN 160



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF, RECONSTRUCTION**

Construction **REINFORCED CONCRETE**

Components **TW SAN 90 PVC, TWOK v140**

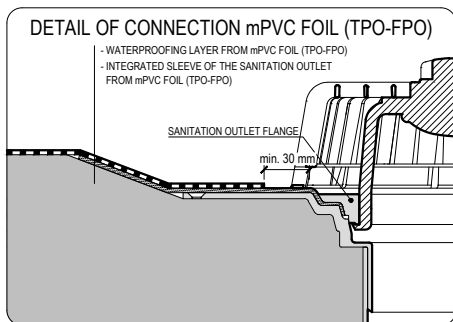
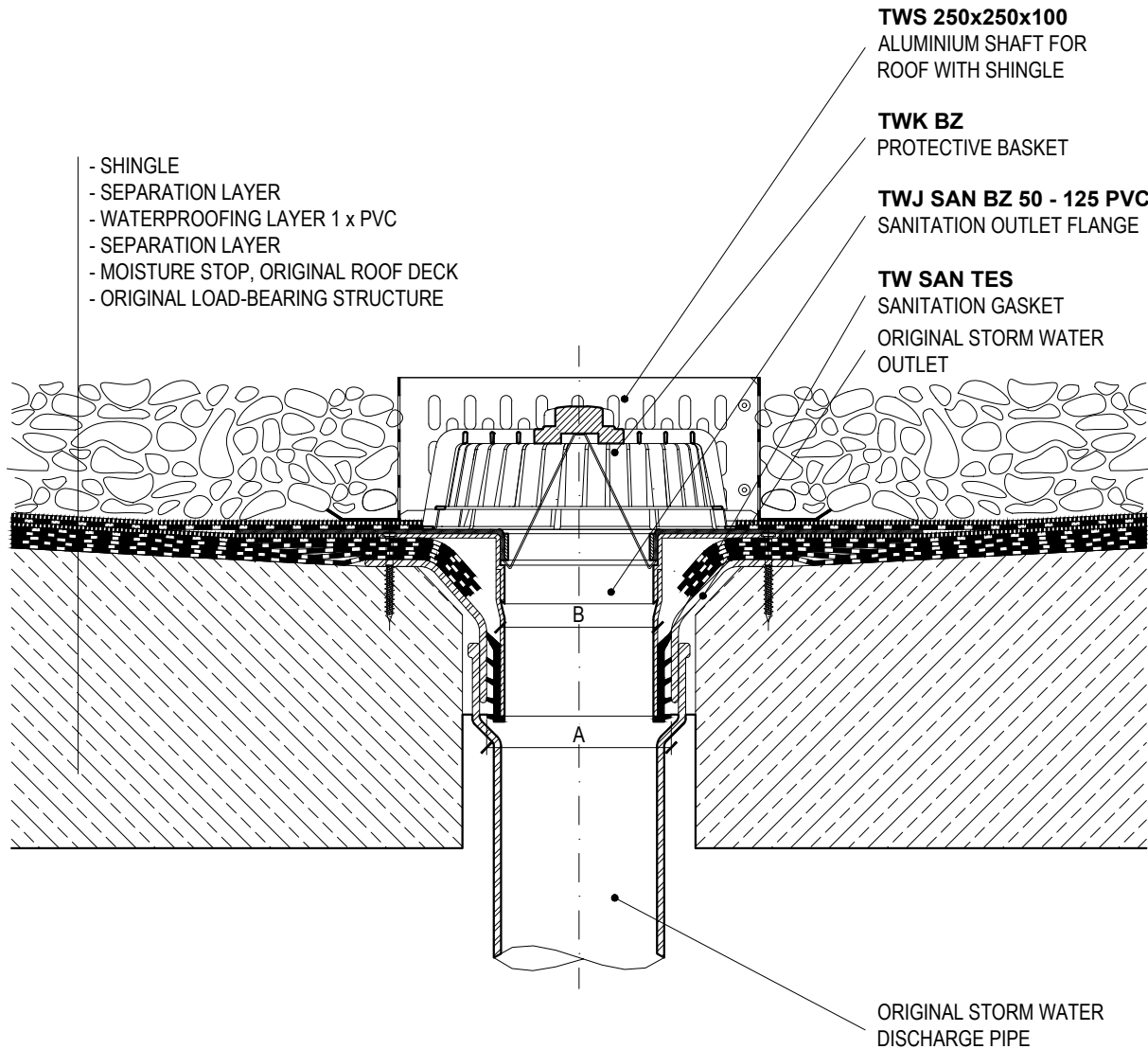
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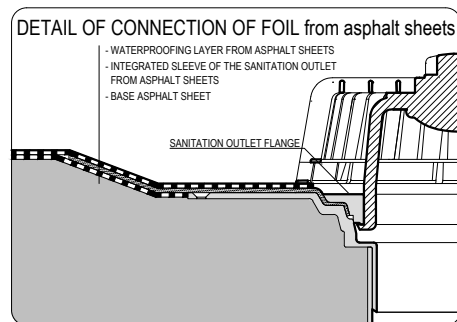
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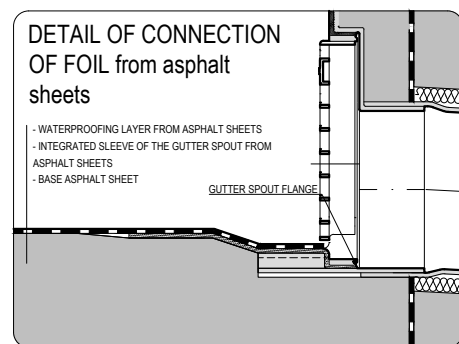
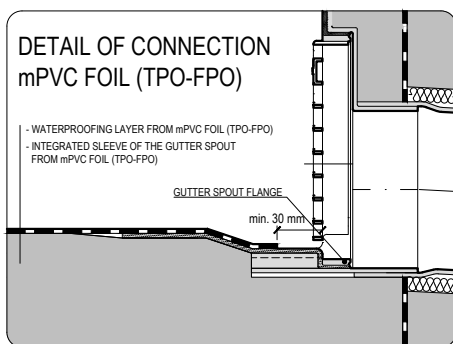
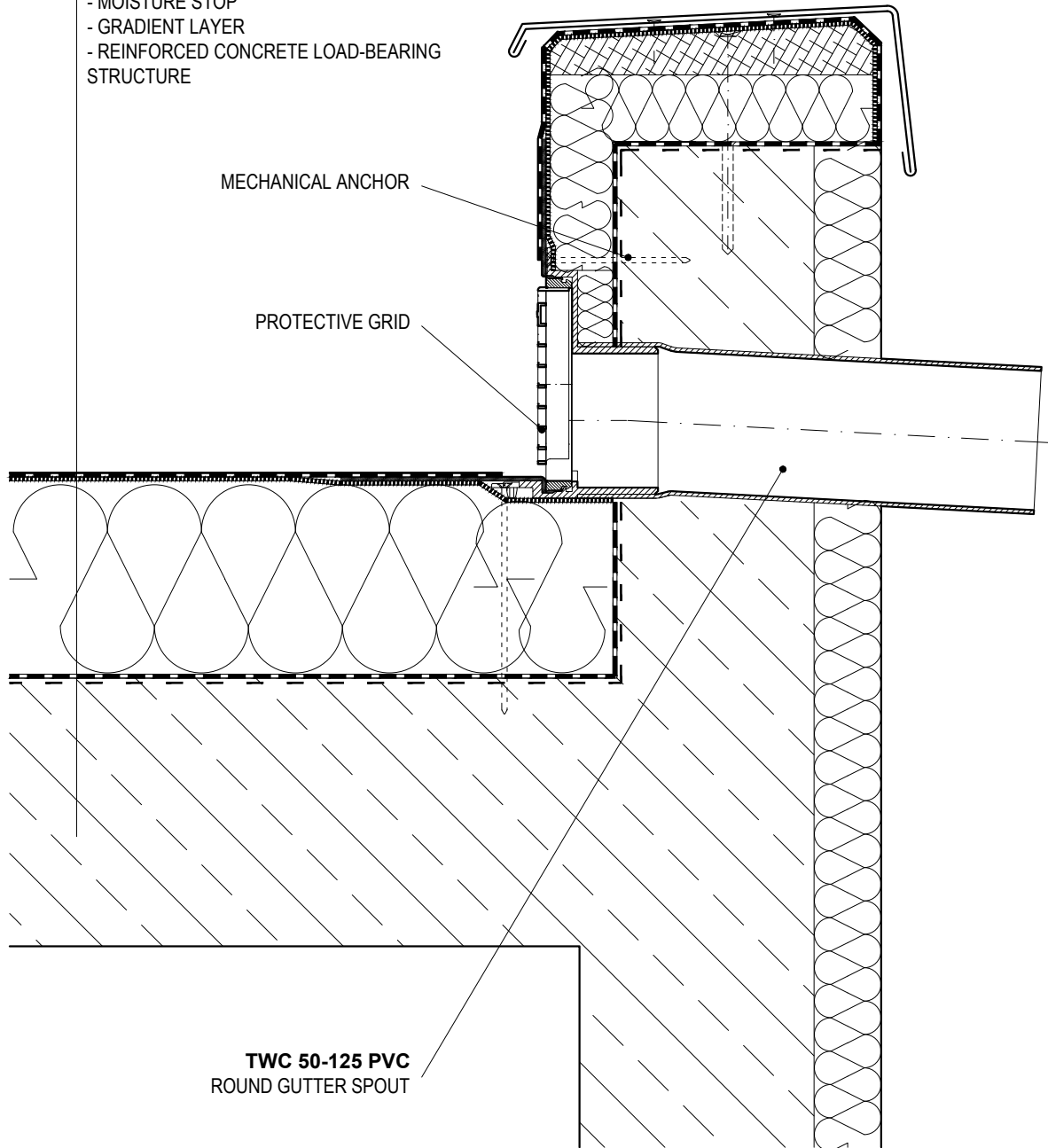


Ø A	Ø B
54-72 mm	SAN 50
79-102 mm	SAN 75
99-106 mm	SAN 90
109-116 mm	SAN 104
116-129 mm	SAN 110
144-154 mm	SAN 125
186-200 mm	SAN 160



Name	DETAIL OF THE ROOF OUTLET FIT		
Type	SINGLE-DECK HEAT UNINSULATED NON-WALKABLE ROOF, RECONSTRUCTION		
Construction	REINFORCED CONCRETE		
Components	TW SAN BZ 110 PVC, TWS 25x25x10	Scale	1:5

- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE



Name **DETAIL OF FITTING THE GUTTER SPOUT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **REINFORCED CONCRETE**

Components **TWC 110 PVC**

Scale **1:5**

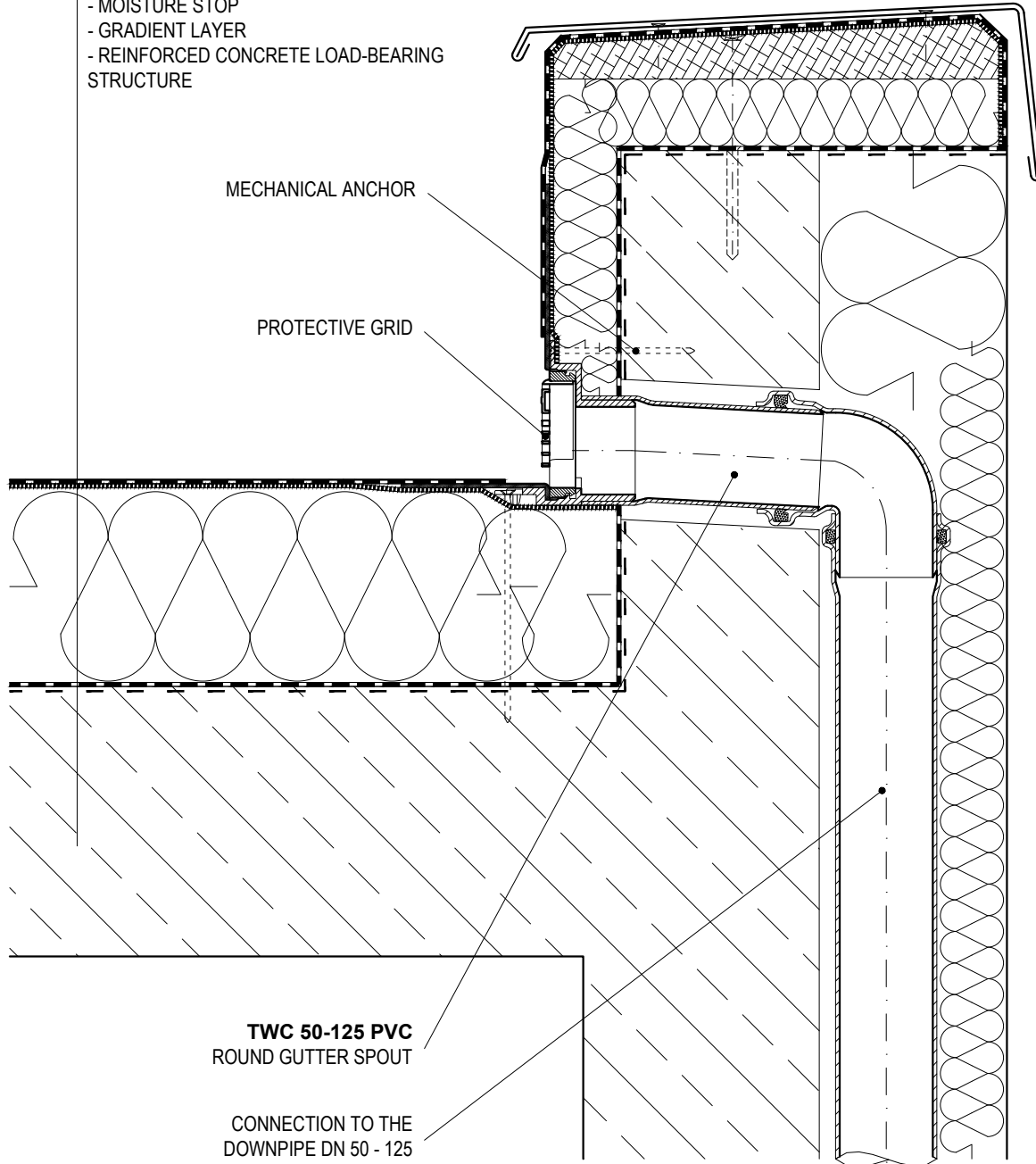
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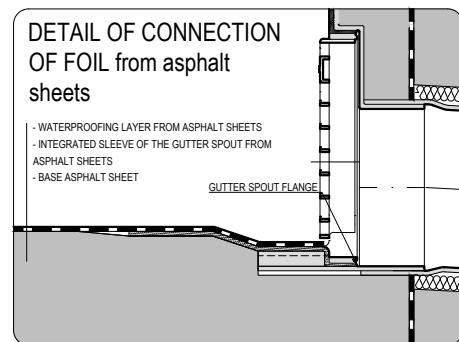
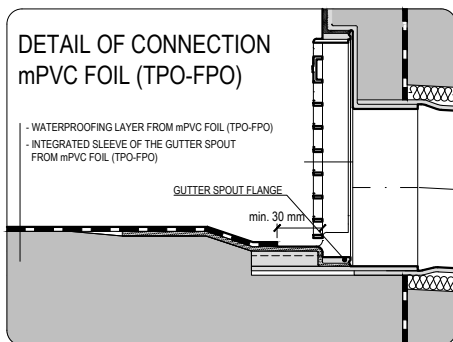
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- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE



TWC 50-125 PVC
ROUND GUTTER SPOUT

CONNECTION TO THE
DOWNPIPE DN 50 - 125



Name **DETAIL OF FITTING THE GUTTER SPOUT WITH CONNECTION**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **REINFORCED CONCRETE**

Components **TWC 75 PVC**

Scale **1:5**

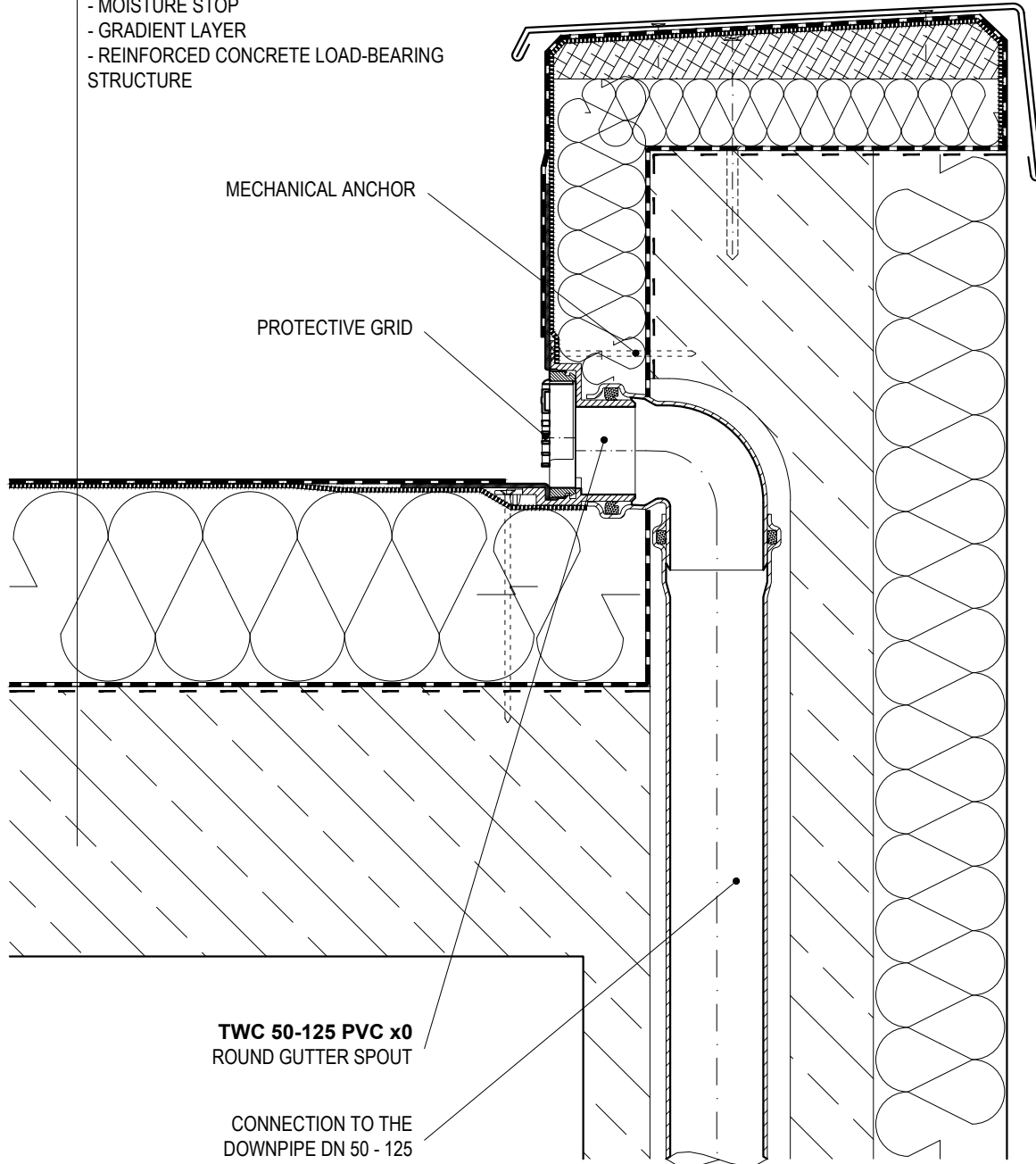
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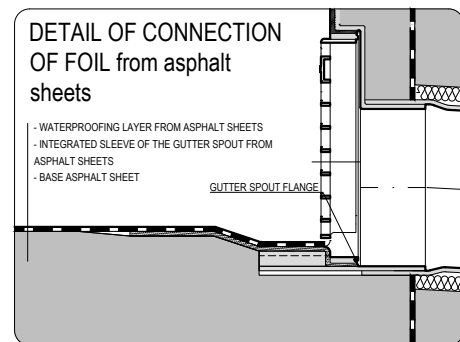
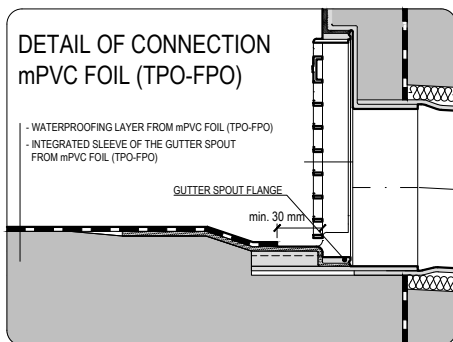
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- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE



TWC 50-125 PVC x0
ROUND GUTTER SPOUT

CONNECTION TO THE
DOWNPIPE DN 50 - 125



Name **DETAIL OF FITTING THE GUTTER SPOUT WITH CONNECTION**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **REINFORCED CONCRETE**

Components **TWC 75 PVC x0**

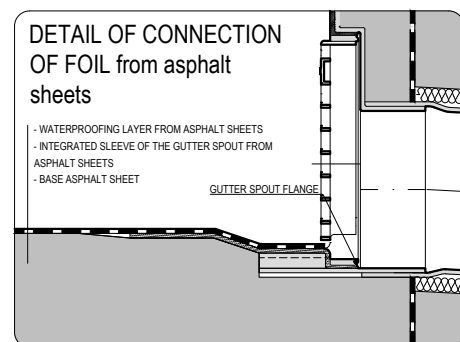
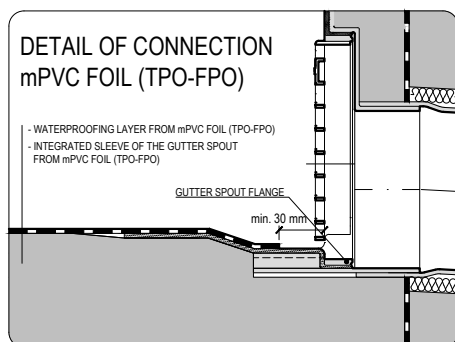
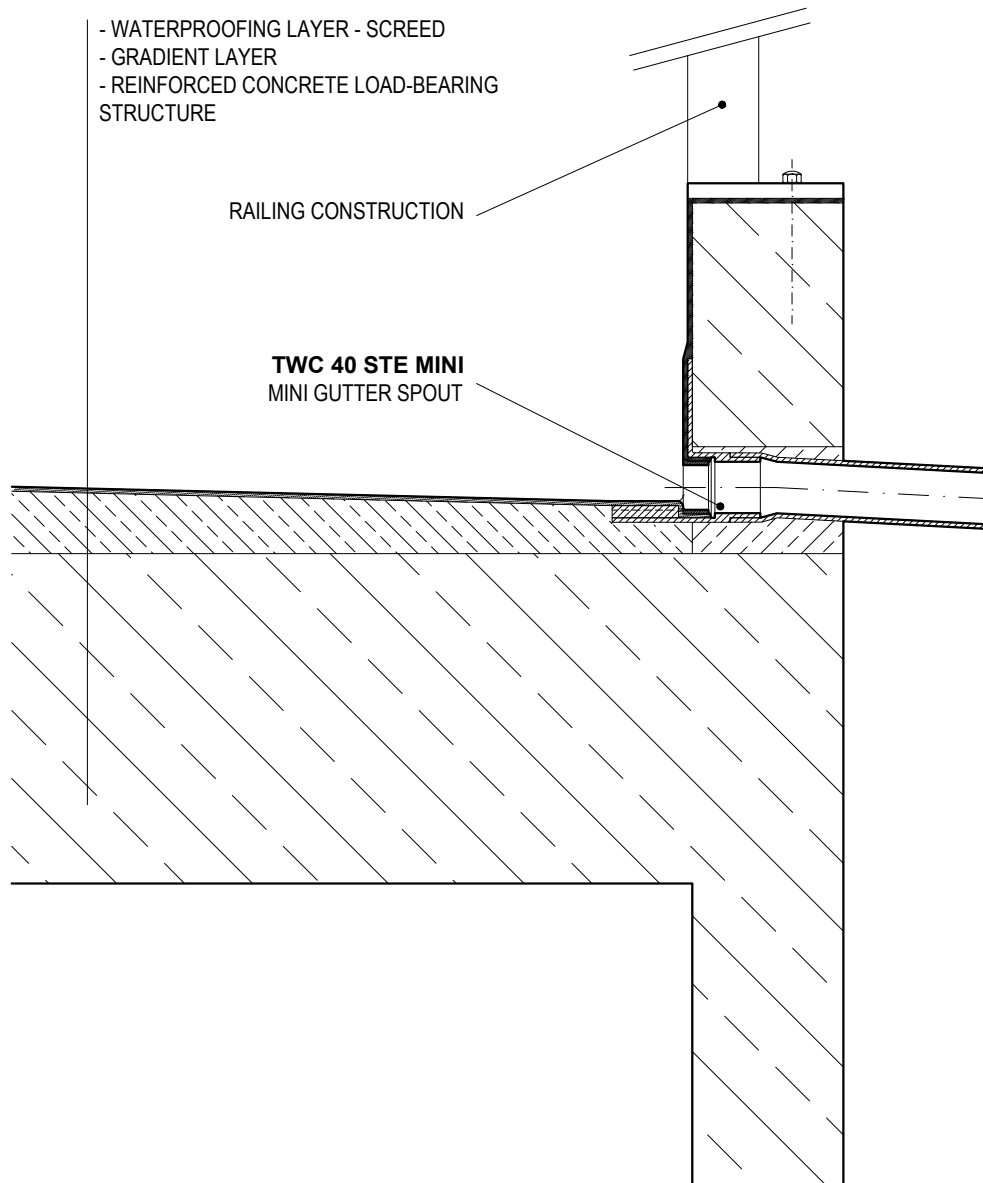
Scale **1:5**

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Name **DETAIL OF FITTING THE MINI GUTTER SPOUT**

Type **SINGLE-DECK HEAT UNINSULATED WALKABLE TERRACE**

Construction **REINFORCED CONCRETE**

Components **TWC 40 STE MINI**

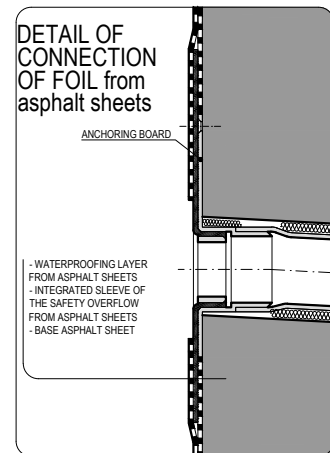
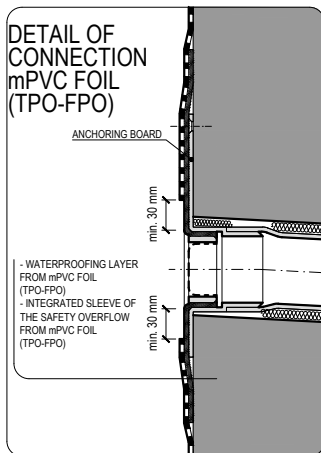
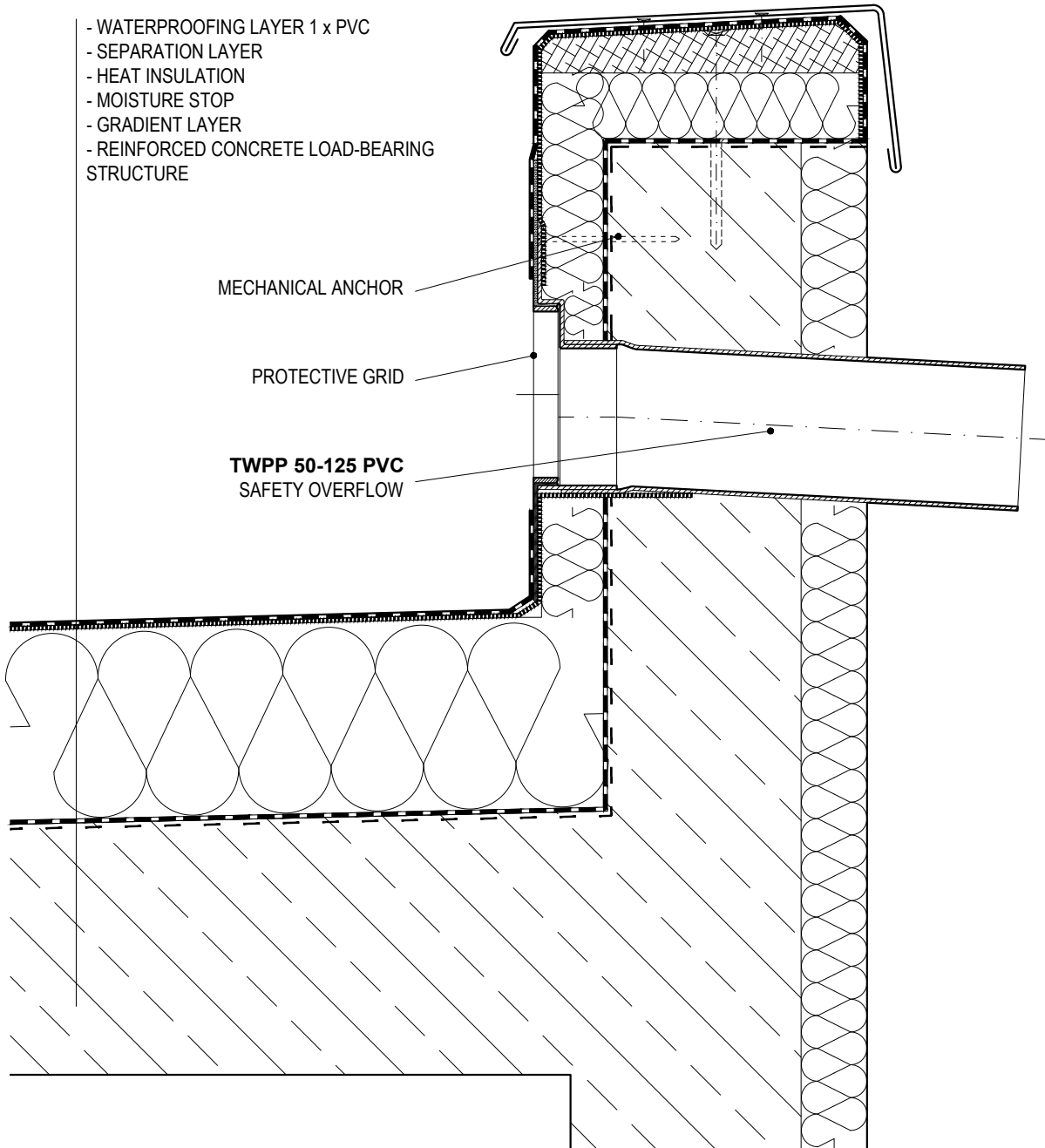
Scale **1:5**

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Name **DETAIL OF FITTING THE SAFETY OVERFLOW**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **REINFORCED CONCRETE**

Components **TWPP 110 PVC**

Scale **1:5**

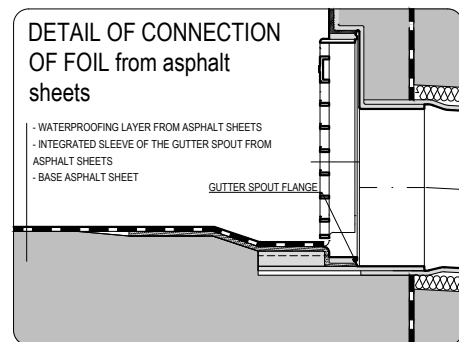
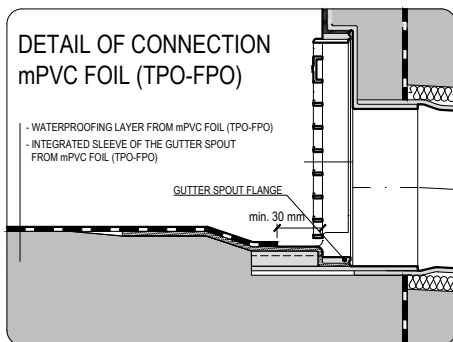
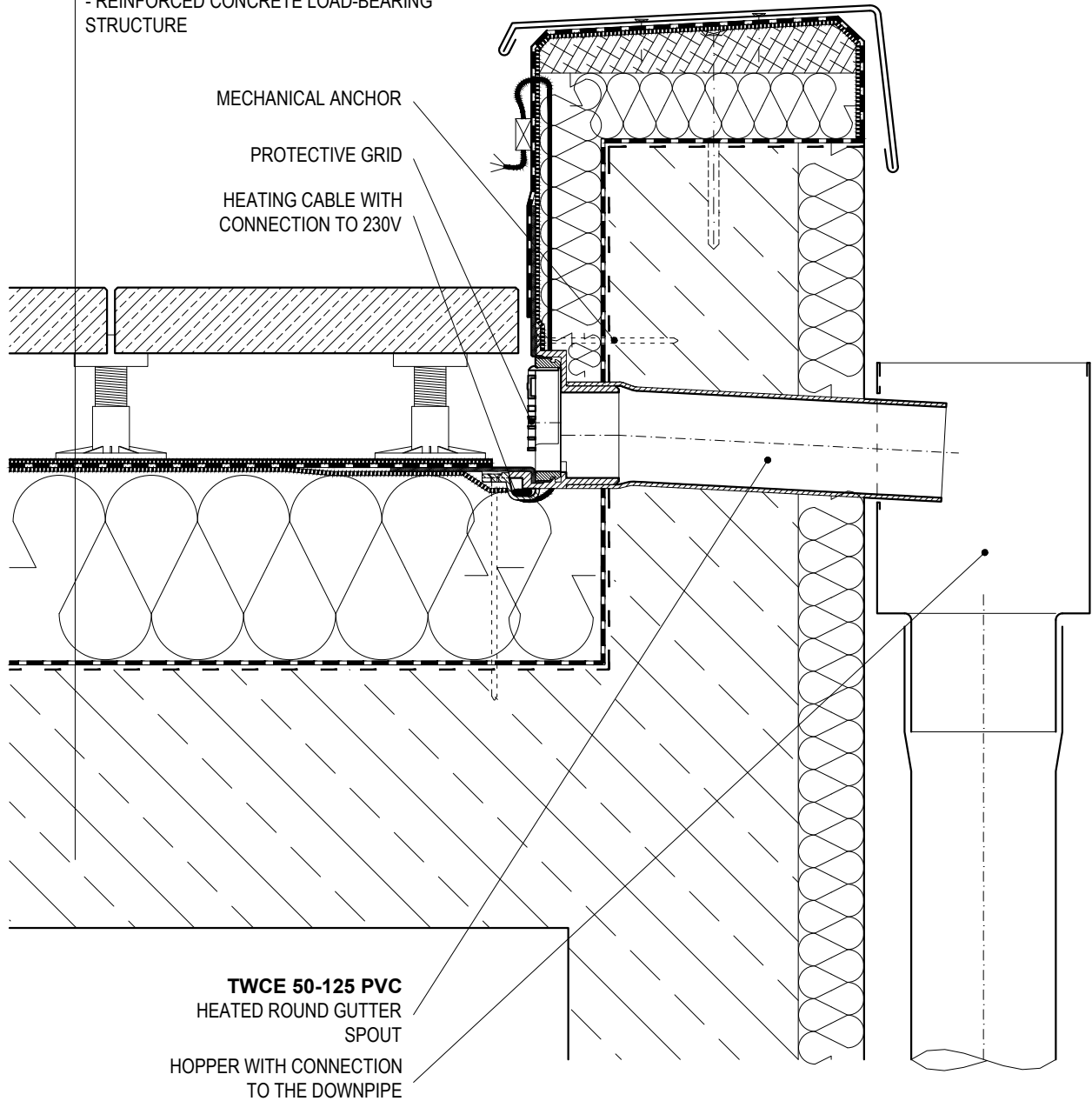
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 OF FLAT ROOFS

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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE



Name **DETAIL OF FITTING THE HEATED GUTTER SPOUT IN HOPPER**

Type **SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TWCE 50 PVC**

Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

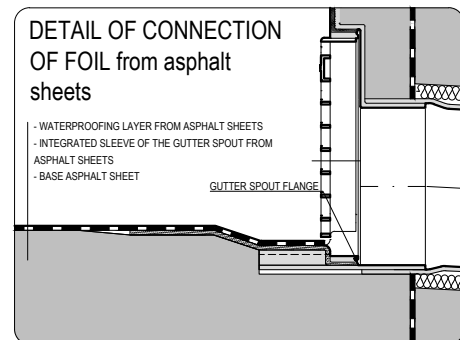
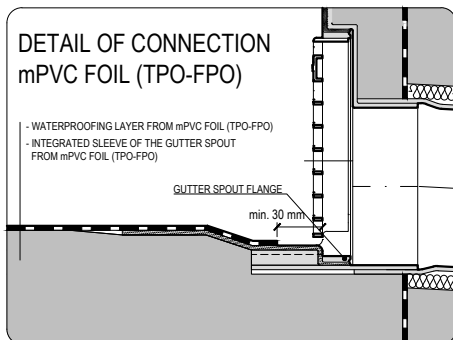
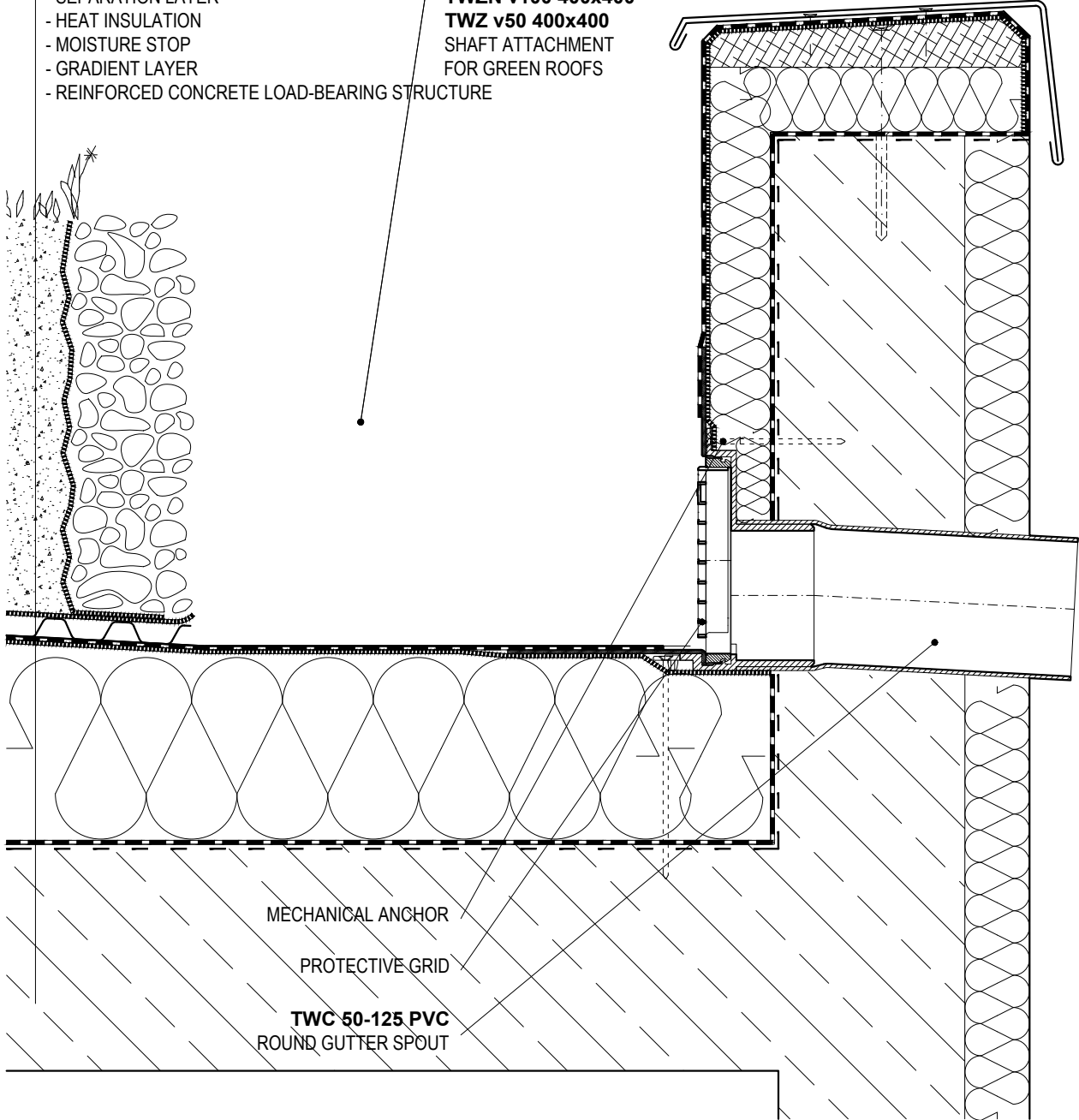
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- GREENERY
- ROOF SUBSTRATE
- FILTRATION LAYER
- WATER ACCUMULATION LAYER
- PROTECTIVE LAYER
- WATERPROOFING LAYER RESISTANT TO ROOTS 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWZ 400x400x130
SHAFT FOR GREEN ROOFS WITH WALKABLE GRID

TWZN v100 400x400
TWZ v50 400x400
SHAFT ATTACHMENT FOR GREEN ROOFS



Name **DETAIL OF FITTING THE GUTTER SPOUT**

Type **SINGLE-DECK HEAT INSULATED GREEN ROOF**

Construction **REINFORCED CONCRETE**

Components **TWC 110 PVC, TWZ 40x40x33**

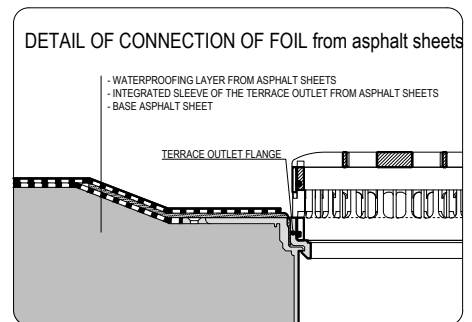
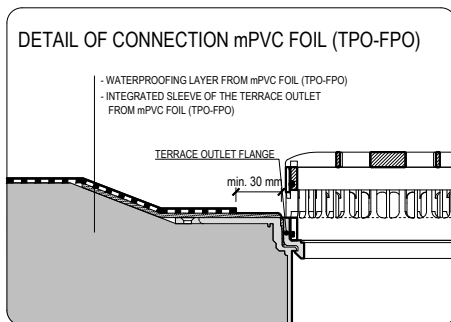
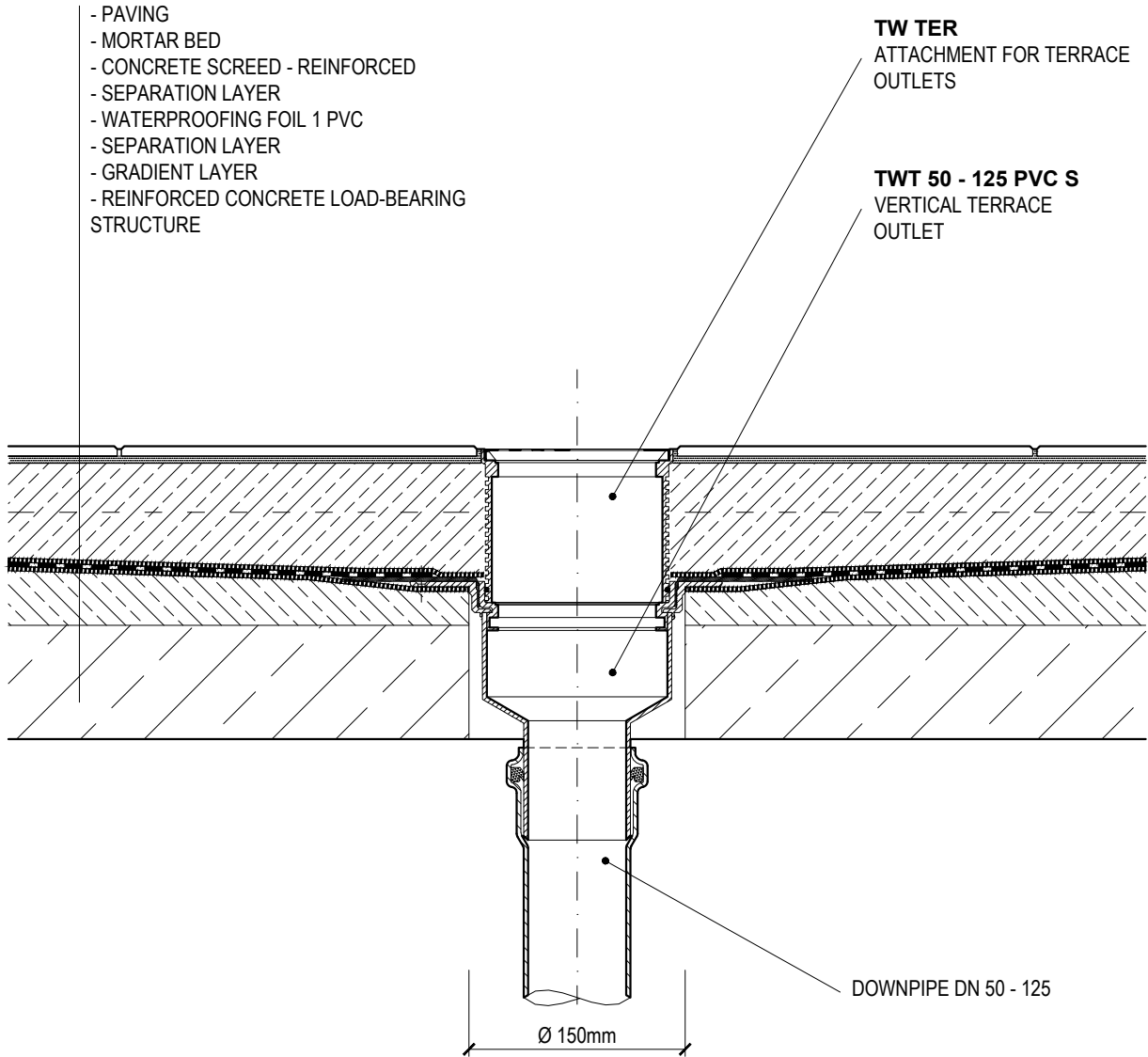
Scale **1:5**

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Name **DETAIL OF FITTING THE TERRACE OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING IN CONCRETE**

Construction **REINFORCED CONCRETE**

Components **TWT 75 PVC S, TW TER**

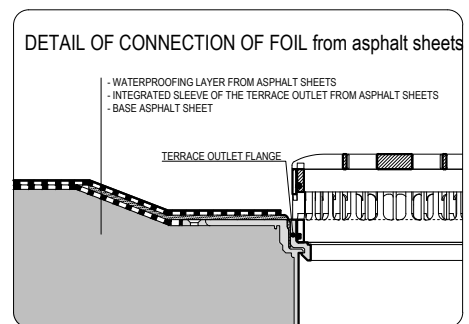
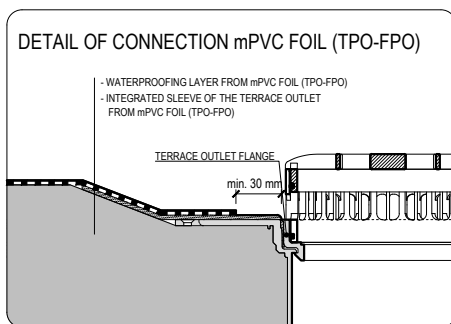
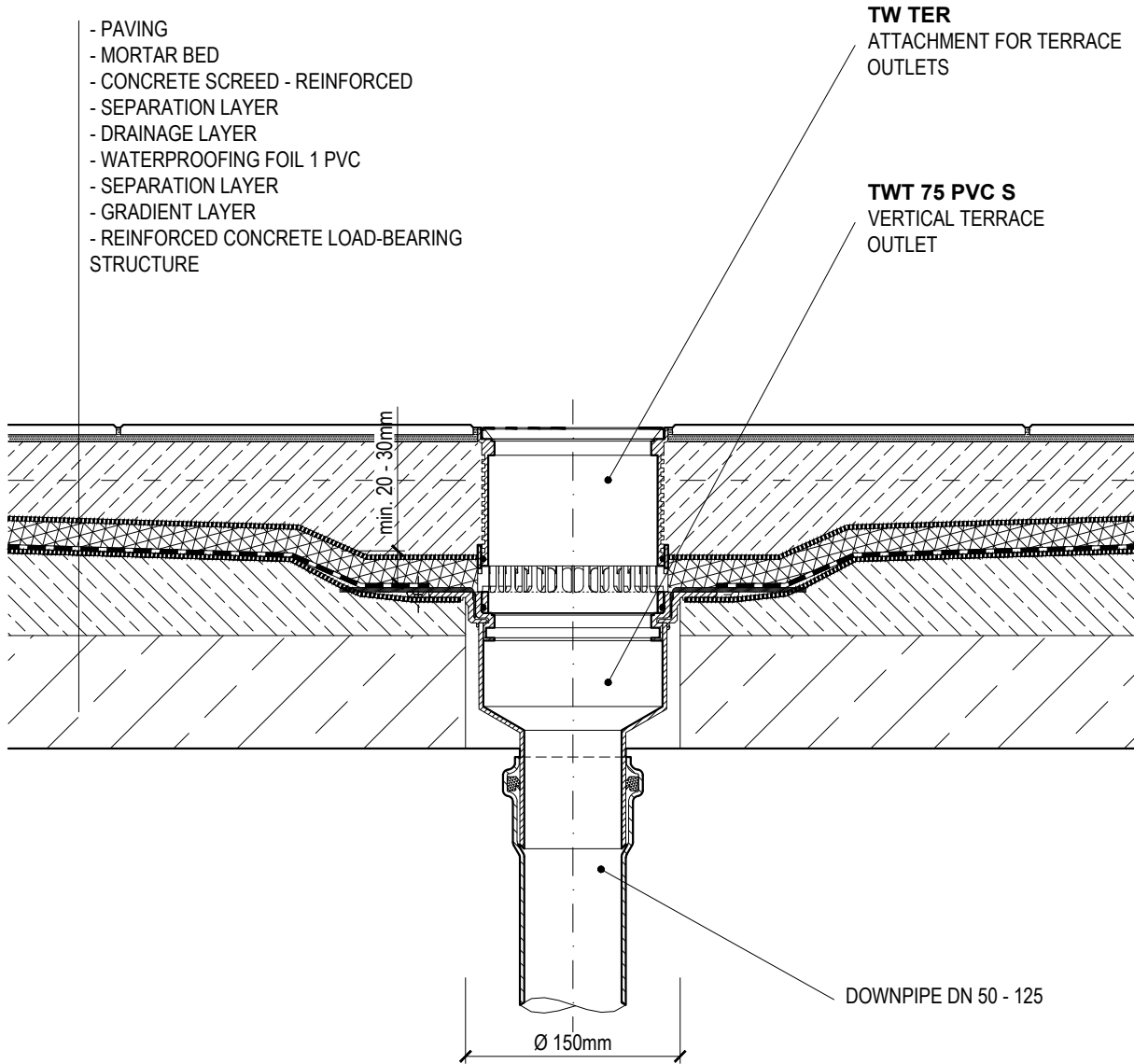
Scale **1:5**

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Name **DETAIL OF FITTING THE TERRACE OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING IN CONCRETE**

Construction **REINFORCED CONCRETE**

Components **TWT 75 PVC S, TW TER**

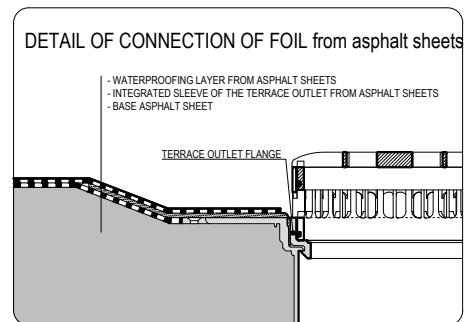
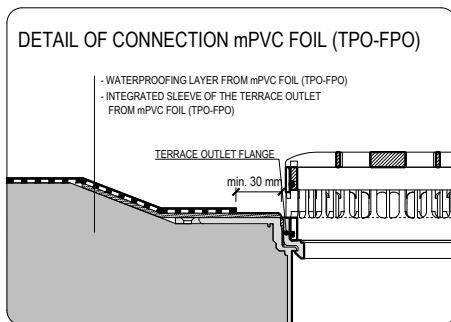
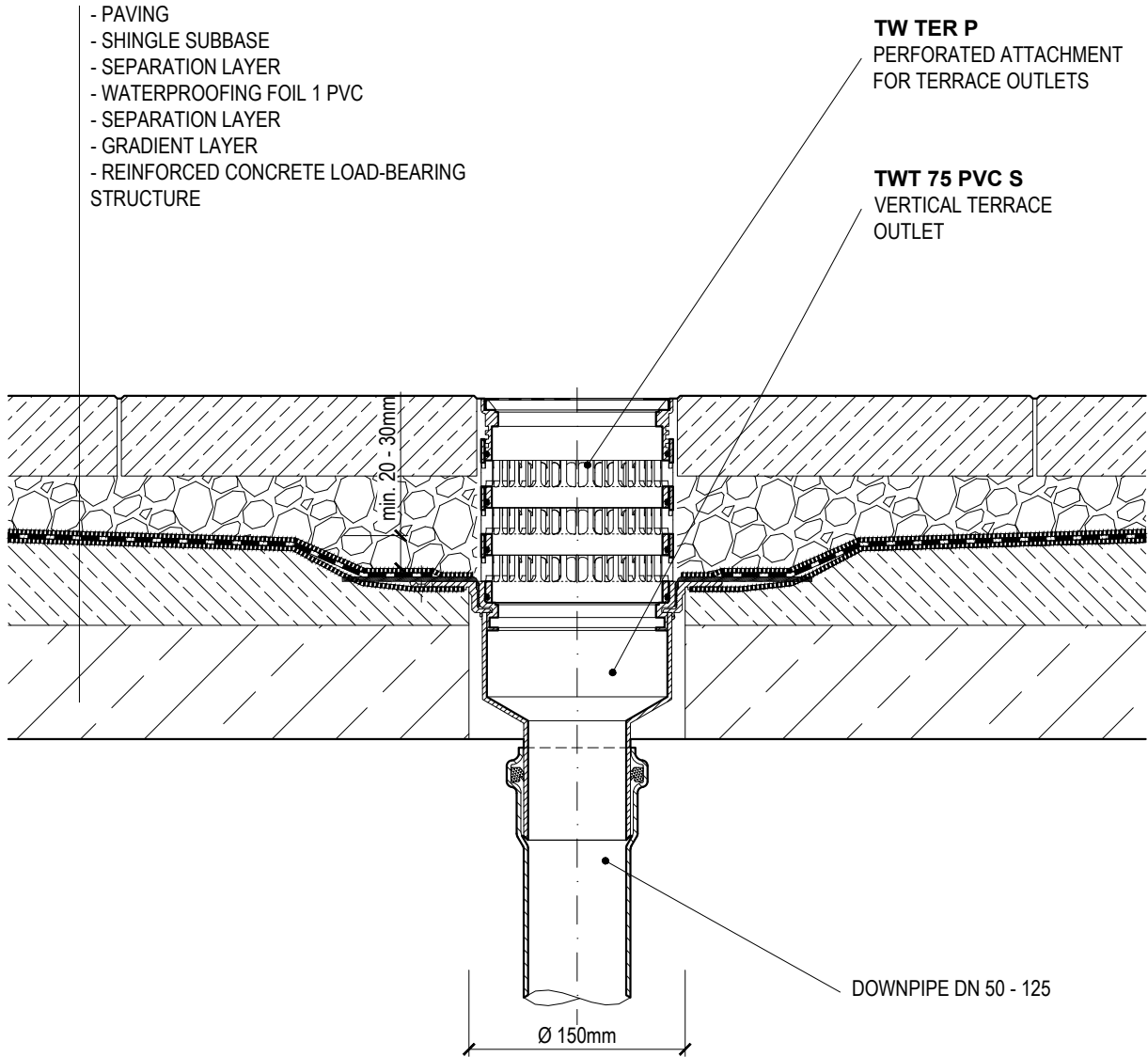
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Name **DETAIL OF FITTING THE TERRACE OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING IN SUBBASE**

Construction **REINFORCED CONCRETE**

Components **TWT 75 PVC S, TW TER**

Scale **1:5**

TOPWET

SYSTEMS FOR DRAINAGE OF FLAT ROOFS

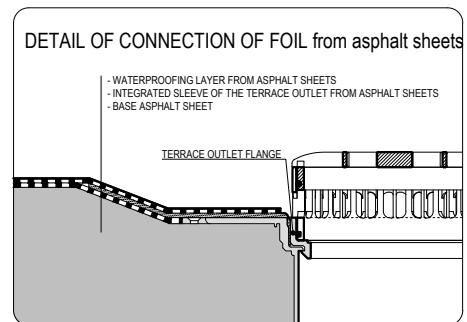
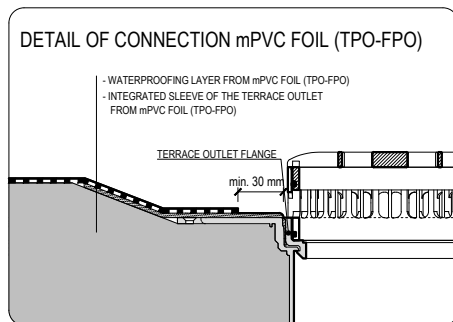
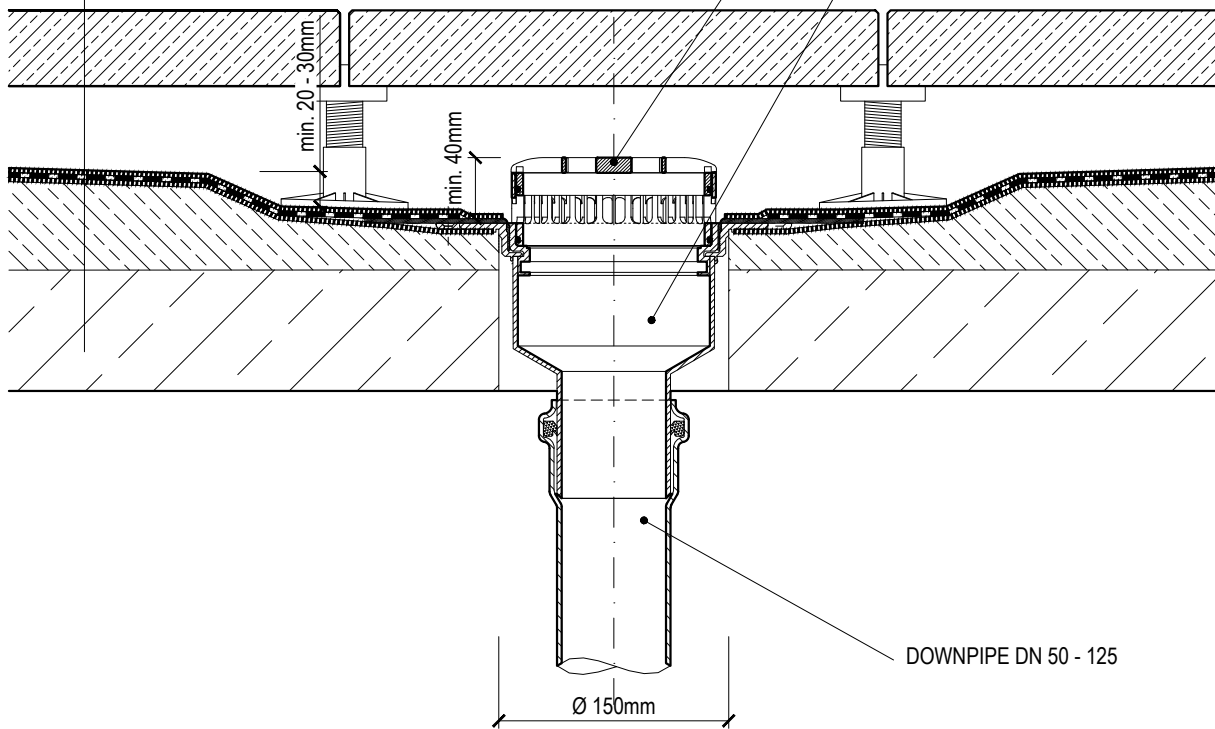
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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWT 75 PVC S
VERTICAL TERRACE OUTLET



Name **DETAIL OF FITTING THE TERRACE OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING ON SUPPORT PADS**

Construction **REINFORCED CONCRETE**

Components **TWT 75 PVC S, TWOK v33**

Scale **1:5**

TOPWET

SYSTEMS FOR DRAINAGE OF FLAT ROOFS

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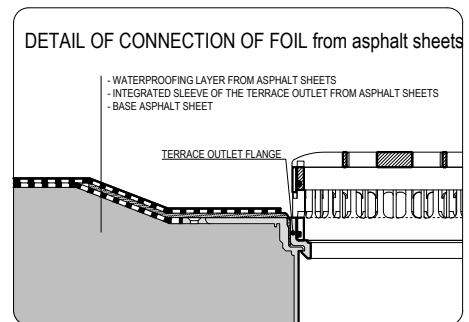
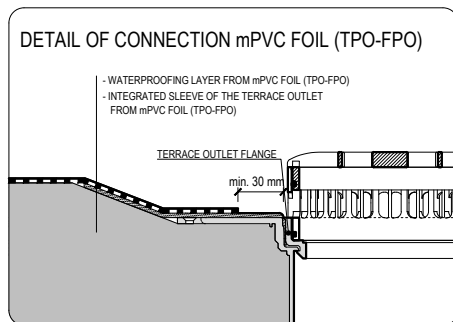
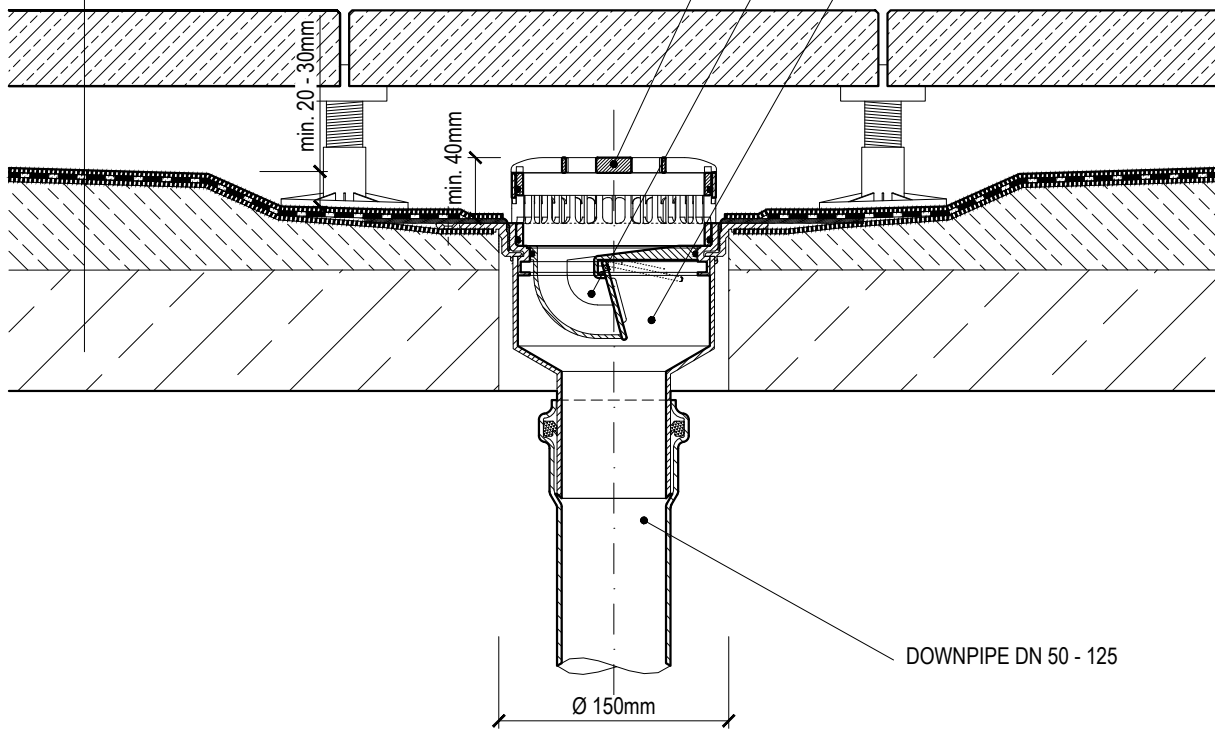
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- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWZU KL
MECHANICAL STINK FLAP

TWT 75 PVC S
VERTICAL TERRACE OUTLET



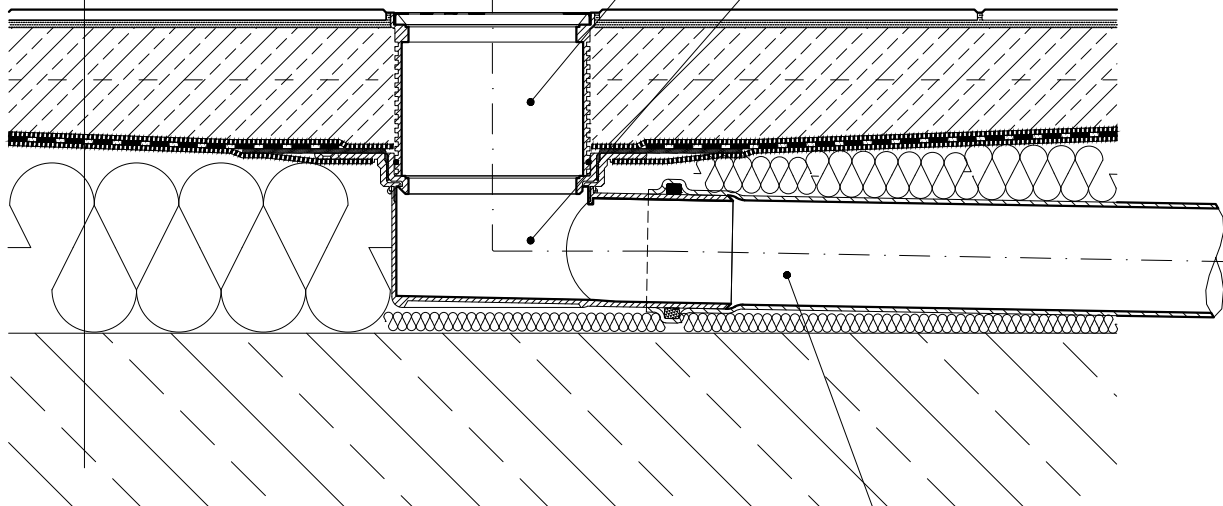
Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING ON SUPPORT PADS
Construction	REINFORCED CONCRETE
Components	TWT 75 PVC S, TWOK v33, TWZU KL

Scale 1:5

- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

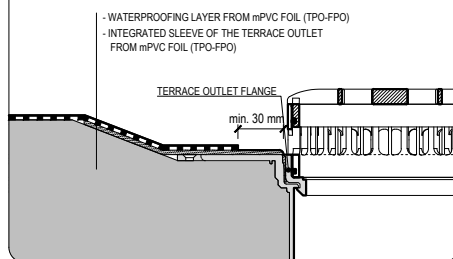
TWTN v120
ATTACHMENT FOR TERRACE
OUTLETS - PAVING IN
CONCRETE

TWT 75 PVC V
HORIZONTAL TERRACE
OUTLET

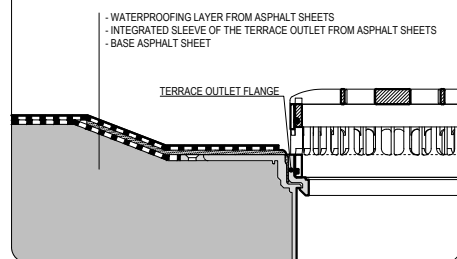


DOWNPIPE DN 50 - 125

DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets



Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TWT 75 PVC V, TWTN v120

Scale 1:5

TOPWET

SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

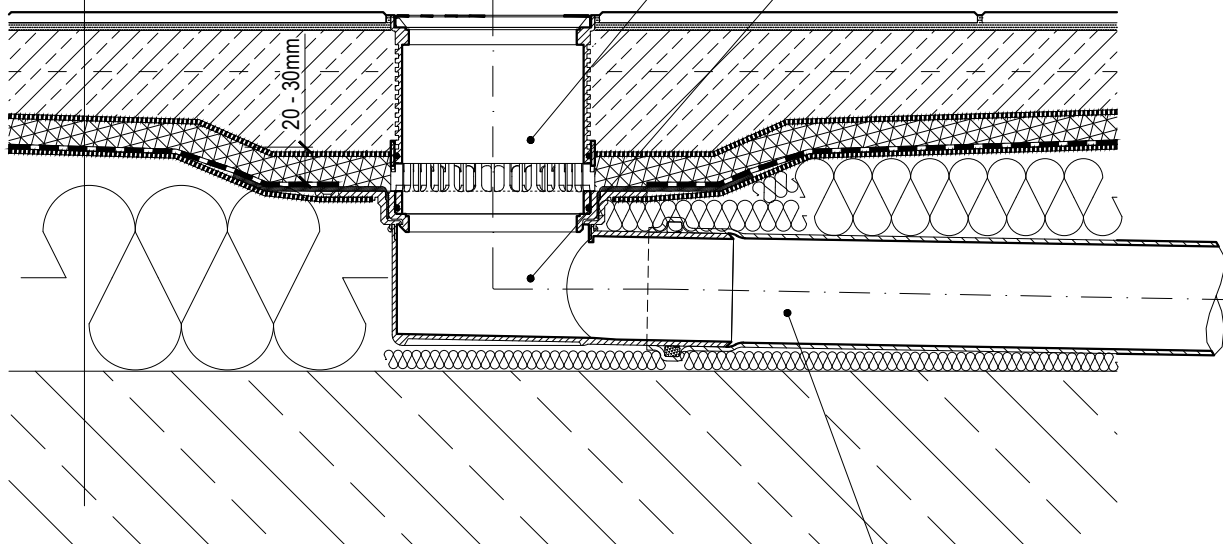
info@topwet.cz

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- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

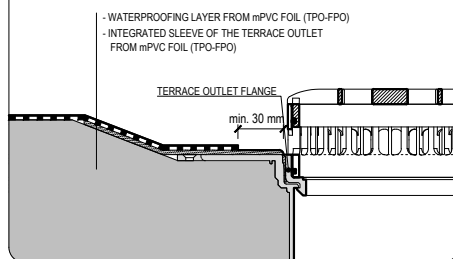
TW TER
ATTACHMENT FOR TERRACE
OUTLETS - PAVING IN
CONCRETE

TWT 75 PVC V
HORIZONTAL TERRACE
OUTLET

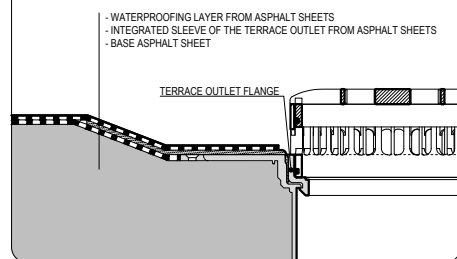


DOWNPIPE DN 50 - 125

DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets



Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TWB 75 PVC V, TW TER P

Scale 1:5

TOPWET

SYSTEMS FOR DRAINAGE OF FLAT ROOFS

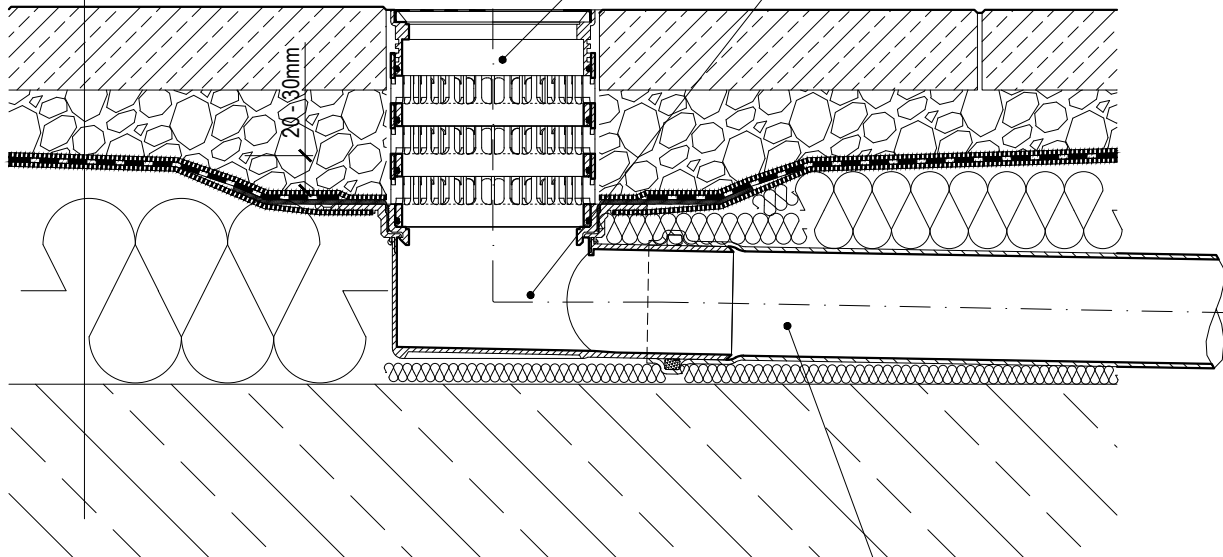
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- PAVING
- SHINGLE SUBBASE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

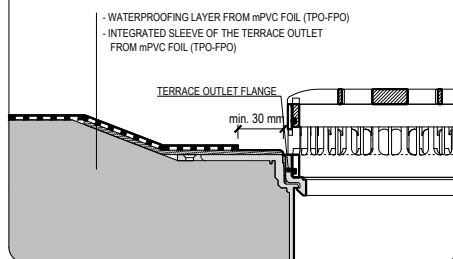
TW TER P
PERFORATED ATTACHMENT
FOR TERRACE OUTLETS

TWT 75 PVC V
HORIZONTAL TERRACE
OUTLET

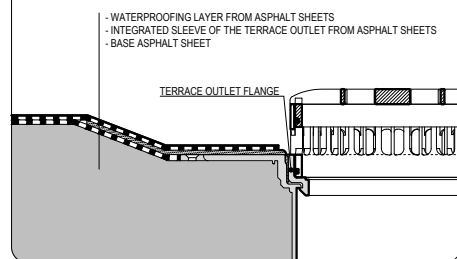


DOWNPIPE DN 50 - 125

DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets



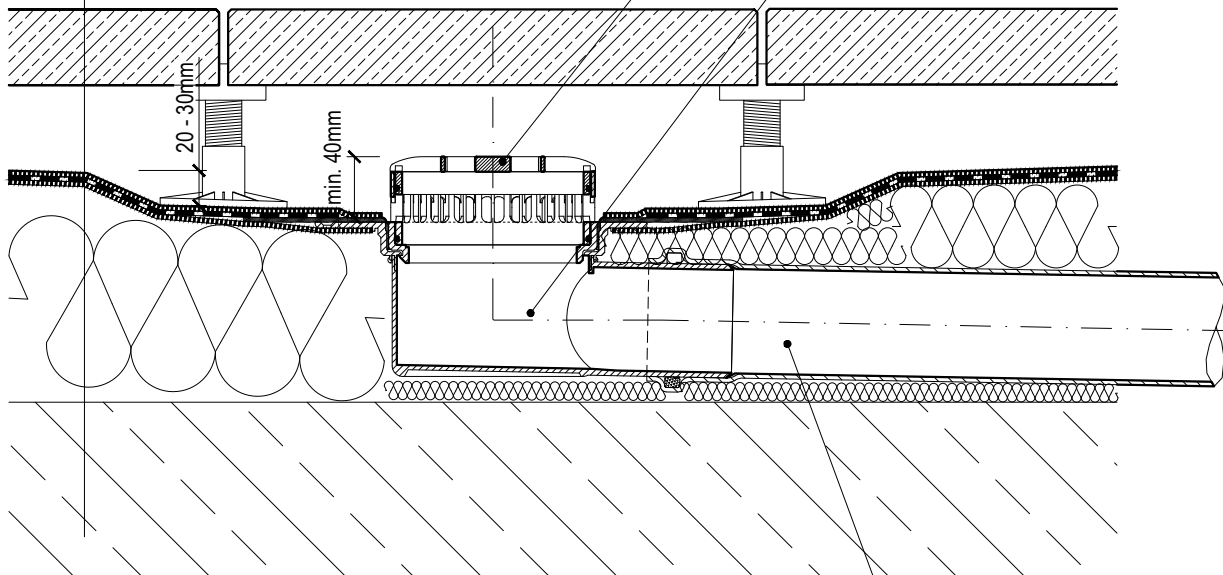
Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN SUBBASE
Construction	REINFORCED CONCRETE
Components	TWT 75 PVC V, TW TER P

Scale 1:5

- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

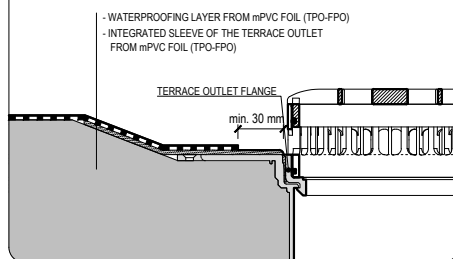
TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWT 75 PVC V
HORIZONTAL TERRACE OUTLET

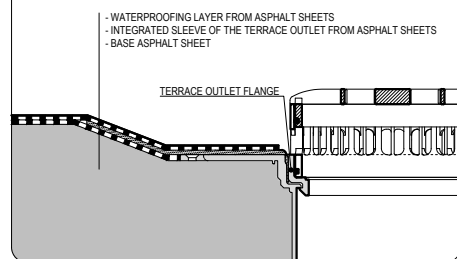


DOWNPIPE DN 50 - 125

DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets



Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING ON SUPPORT PADS
Construction	REINFORCED CONCRETE
Components	TWT 75 PVC V, TWOK v33

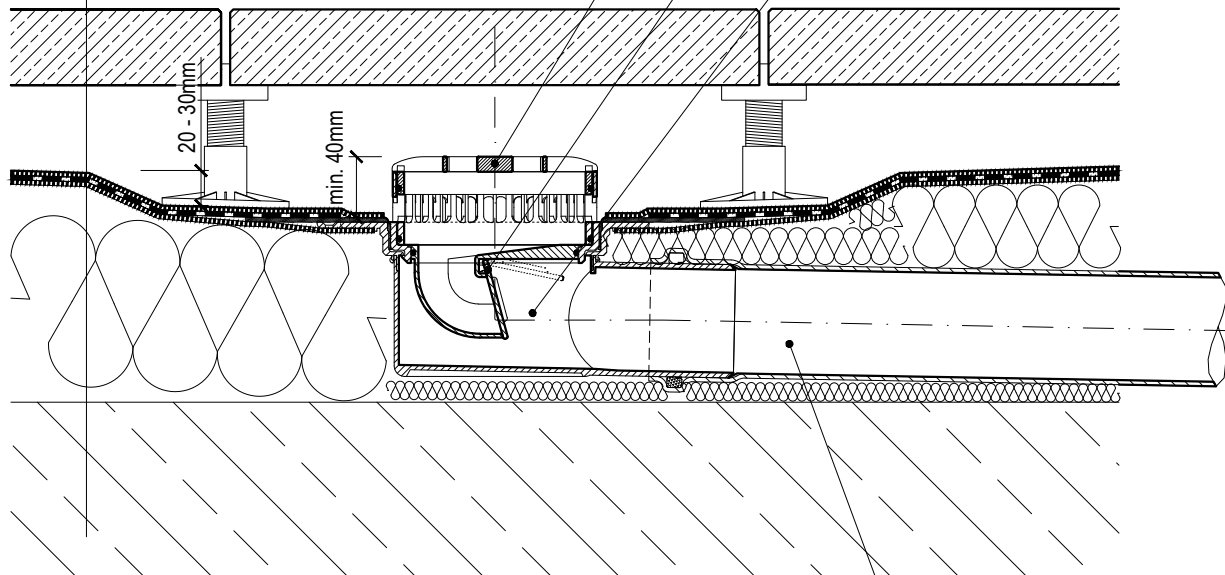
Scale 1:5

- PAVING ON SUPPORT PADS
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v33
PERFORATED BASKET - IT IS NECESSARY TO PERFORM REGULAR CHECKS AND CLEANING

TWZU KL
MECHANICAL STINK FLAP

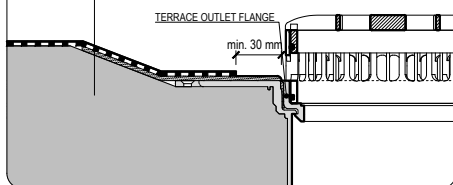
TWT 75 PVC V
HORIZONTAL TERRACE OUTLET



DOWNPIPE DN 50 - 125

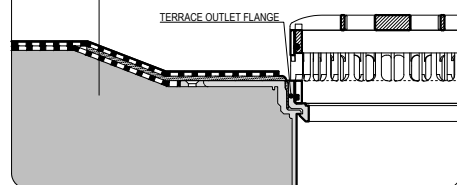
DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)

- WATERPROOFING LAYER FROM mPVC FOIL (TPO-FPO)
- INTEGRATED SLEEVE OF THE TERRACE OUTLET FROM mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets

- WATERPROOFING LAYER FROM ASPHALT SHEETS
- INTEGRATED SLEEVE OF THE TERRACE OUTLET FROM ASPHALT SHEETS
- BASE ASPHALT SHEET



Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING ON SUPPORT PADS
Construction	REINFORCED CONCRETE
Components	TWT 75 PVC V, TWOK v33, TWZU KL

Scale 1:5

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

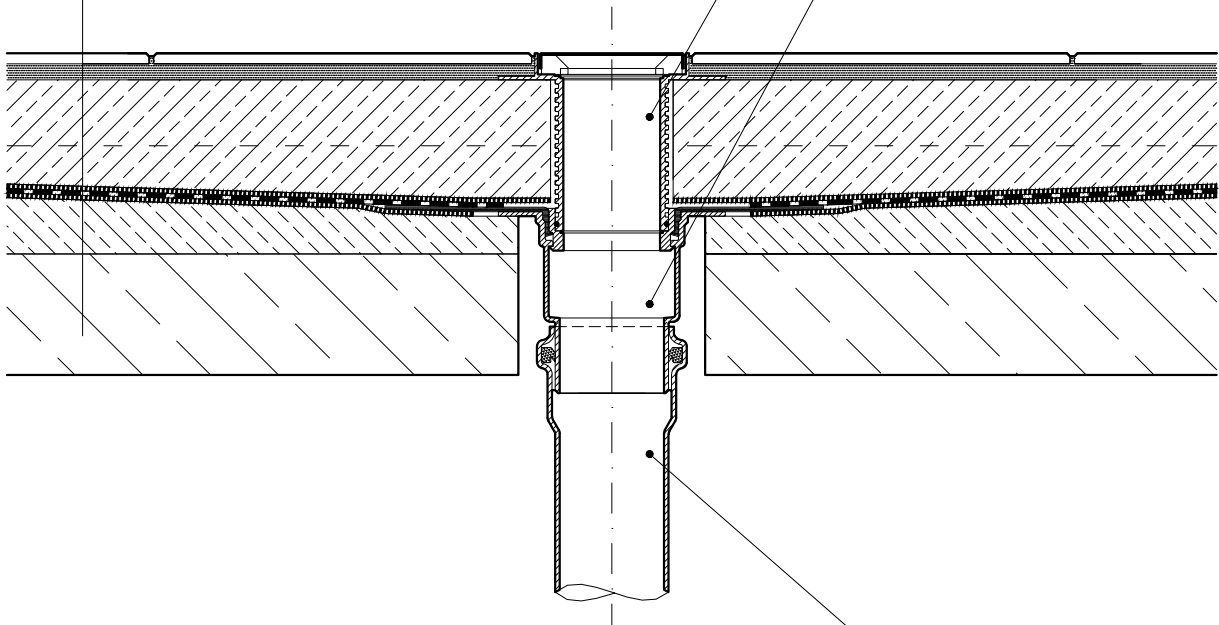
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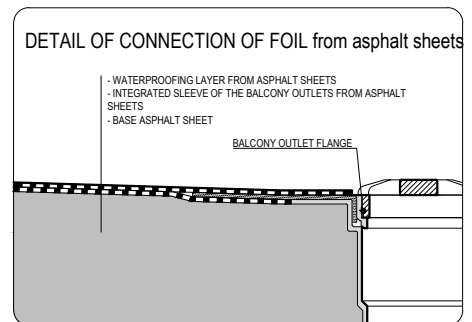
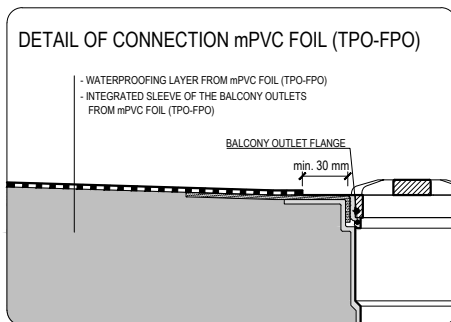
- PAVING
- GLUE UNDER PAVING
- WATERPROOFING LAYER - SCREED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING FOIL 1 BIT
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWB TER TH
ATTACHMENT FOR BALCONY
OUTLETS

TWB 75 BIT S
VERTICAL BALCONY
OUTLET



DOWNPIPE DN 75



Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING IN CONCRETE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC S, TWB TER TH**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

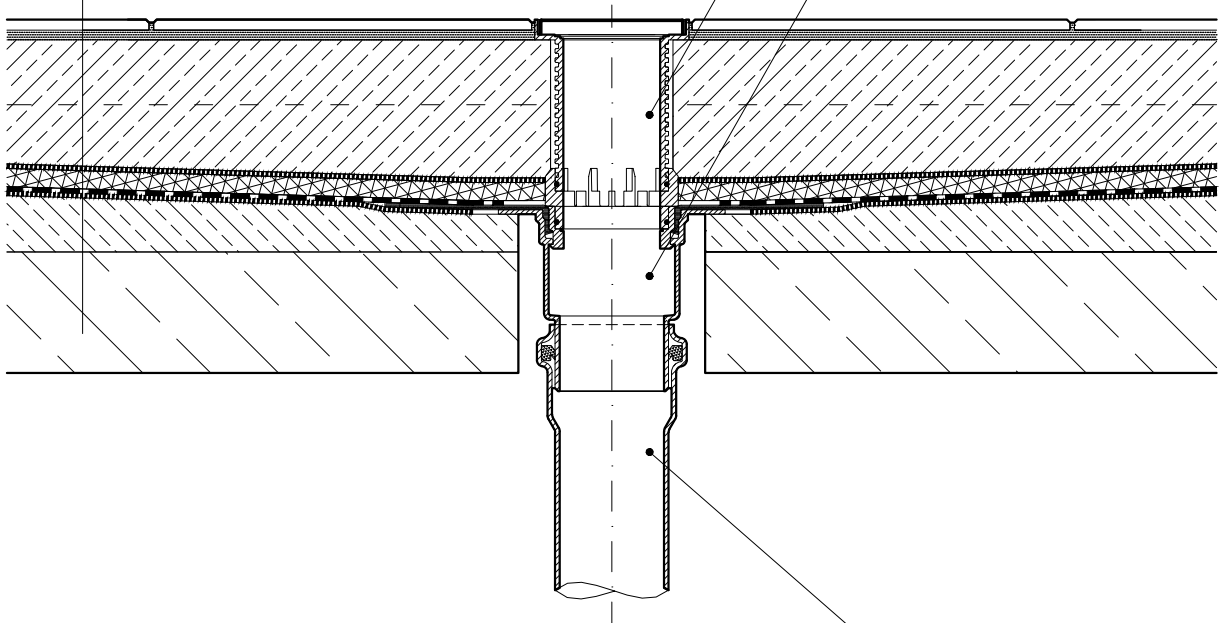
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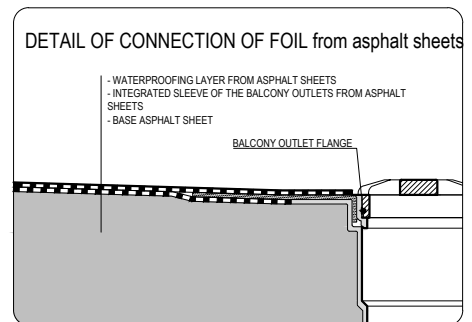
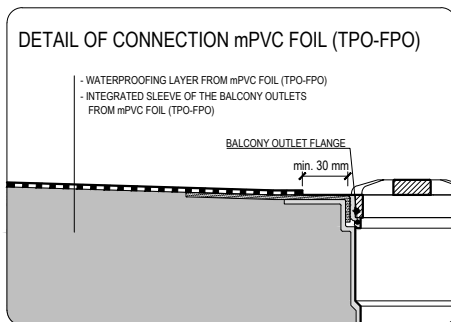
- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- DRAINAGE LAYER
- WATERPROOFING FOIL 1 BIT
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWB TER
ATTACHMENT FOR BALCONY
OUTLETS

TWB 75 BIT S
VERTICAL BALCONY
OUTLET



DOWNPIPE DN 75



Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING IN CONCRETE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC S, TWB TER**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
OF FLAT ROOFS

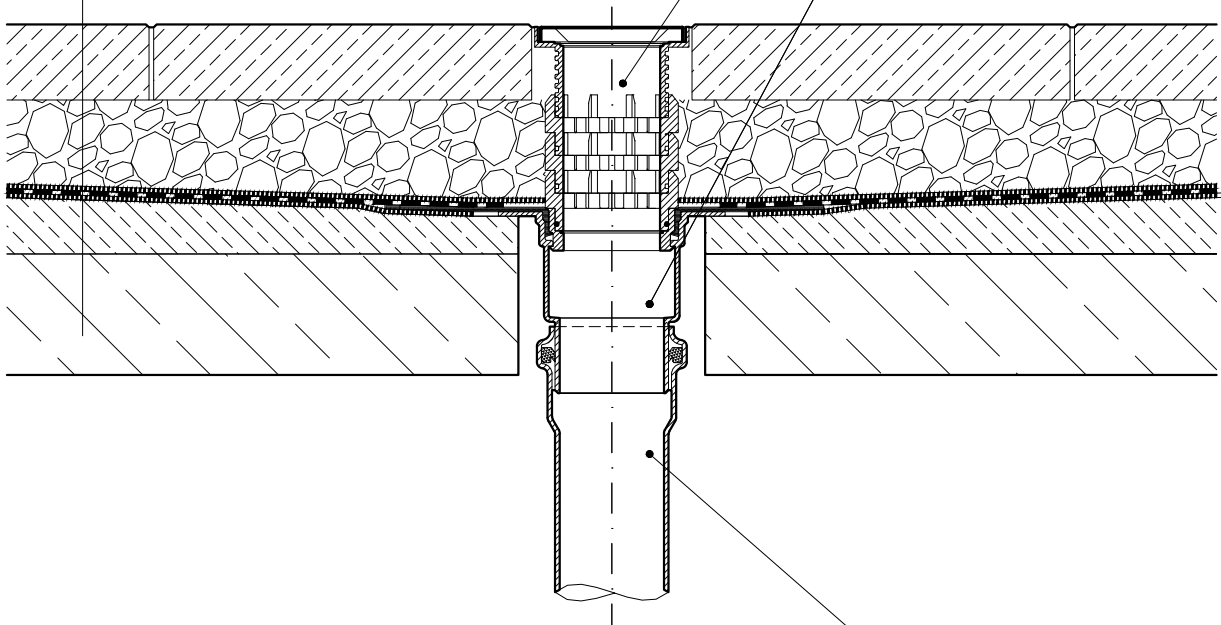
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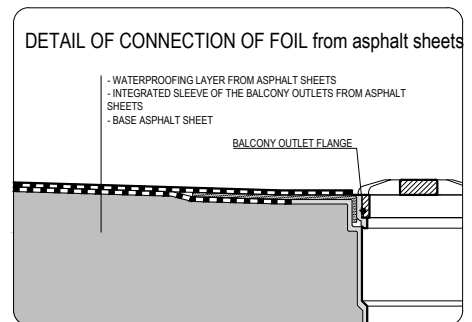
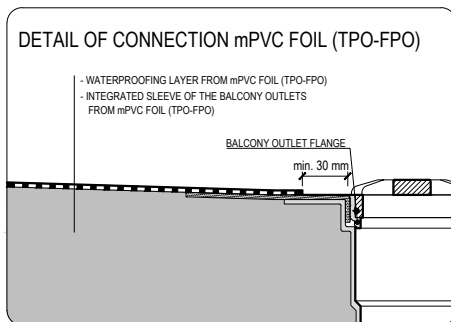
- PAVING
- SHINGLE SUBBASE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 BIT
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWB TER + TWB ODK
ATTACHMENT FOR BALCONY
OUTLETS

TWB 75 BIT S
VERTICAL BALCONY
OUTLET



DOWNPIPE DN 75



Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING IN SUBBASE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC S, TWB TER, TWB ODK**

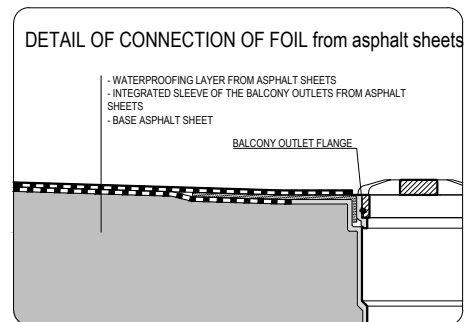
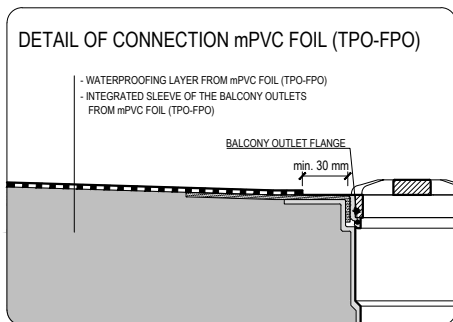
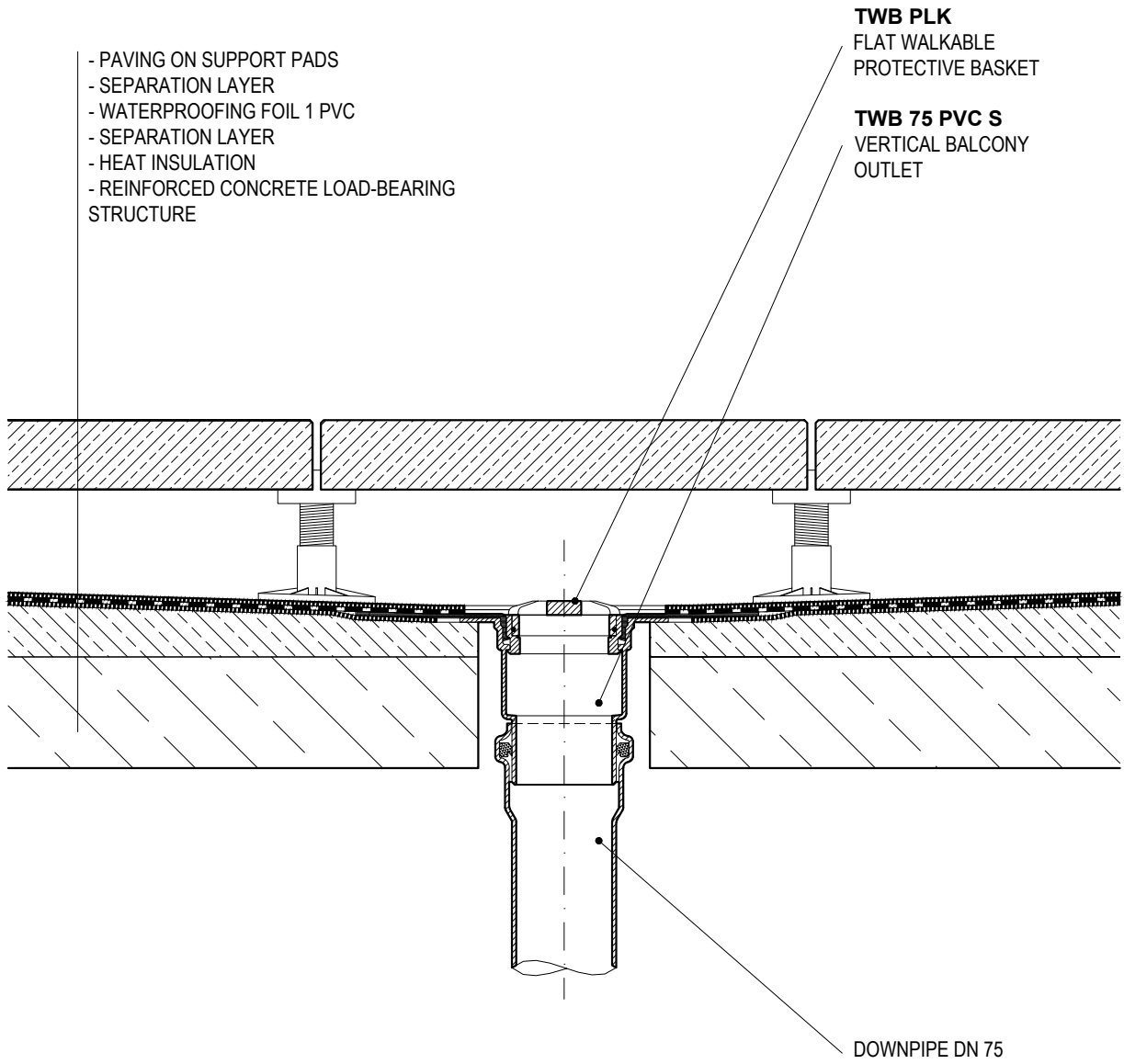
Scale **1:5**

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Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING ON SUPPORT PADS
Construction	REINFORCED CONCRETE
Components	TWB 75 PVC S, TWB PLK

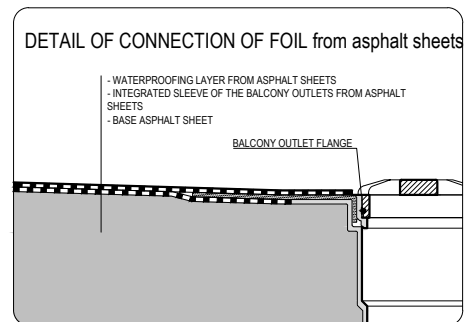
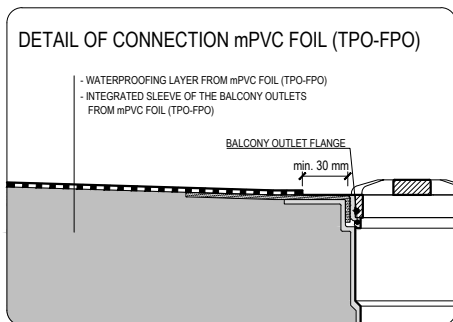
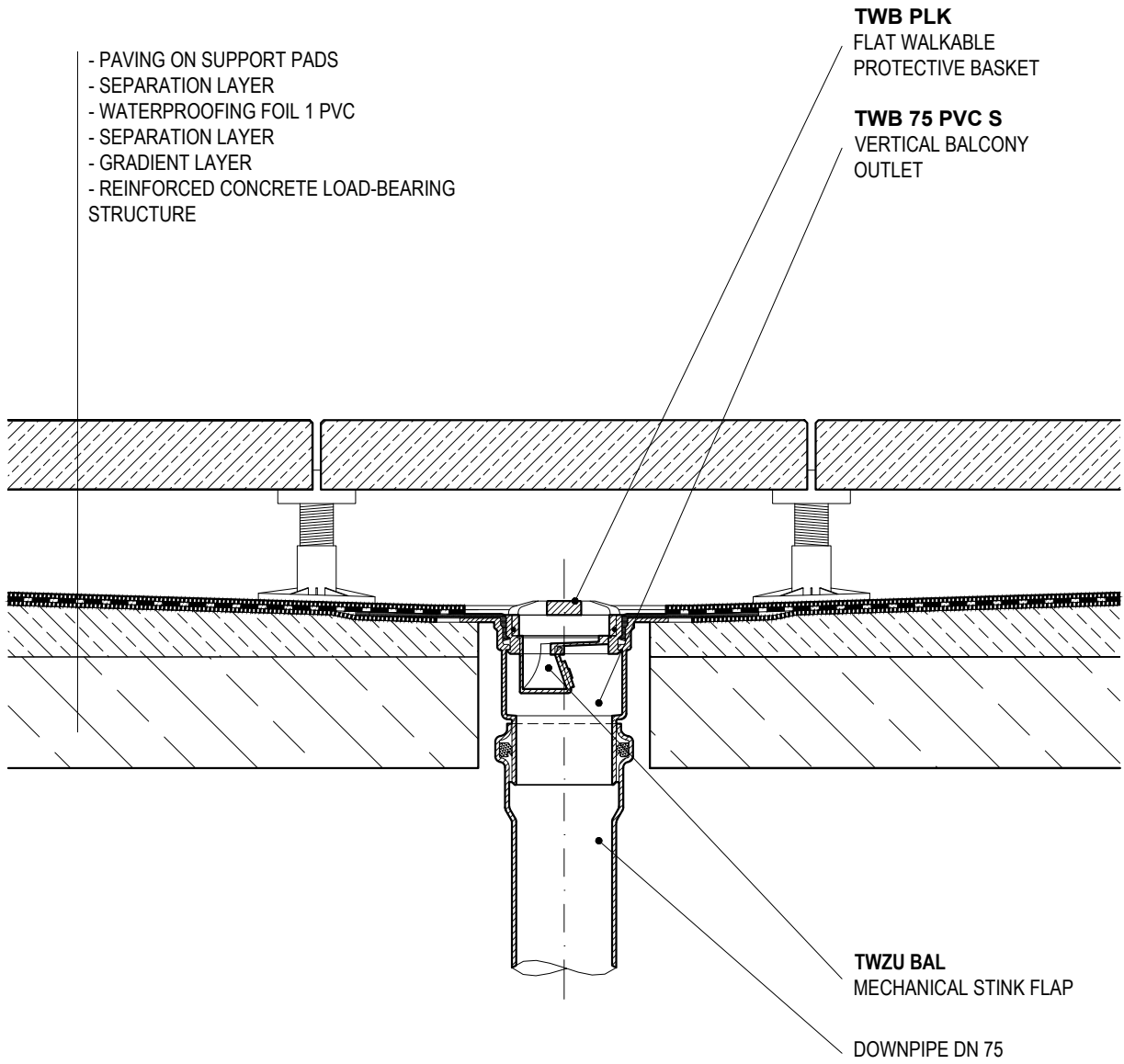
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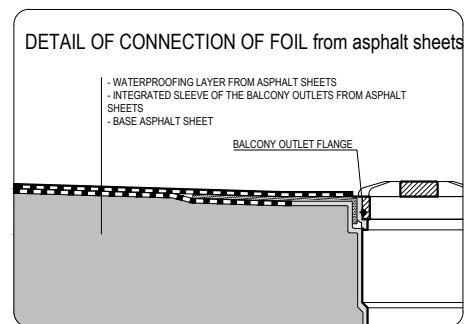
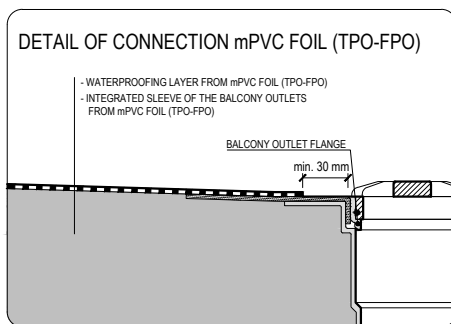
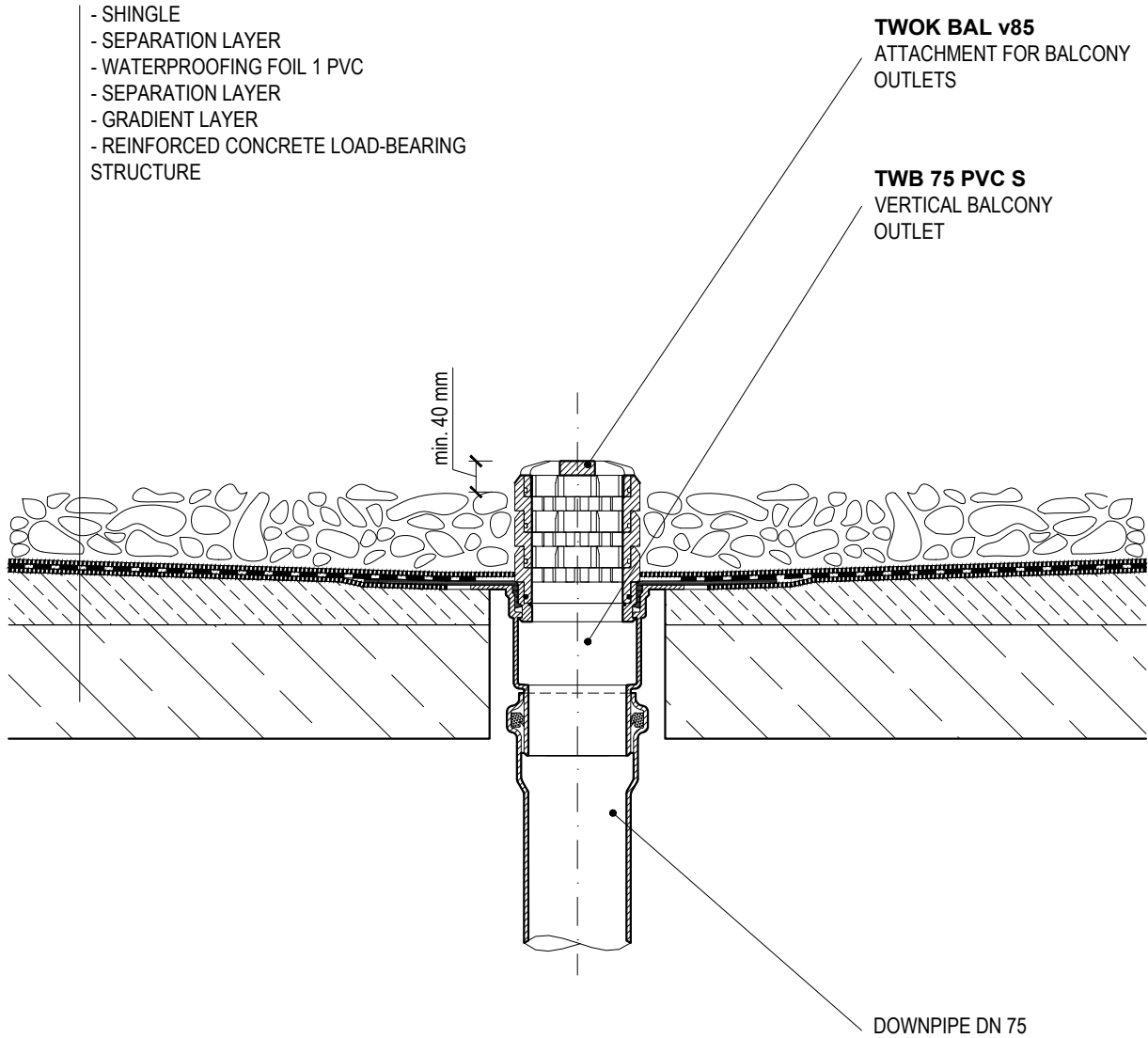
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Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT UNINSULATED TERRACE WITH PAVING ON SUPPORT PADS
Construction	REINFORCED CONCRETE
Components	TWB 75 PVC S, TEB PLK, TWZU BAL

Scale 1:5



Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE WITH SHINGLE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC S, TWOK BAL v85**

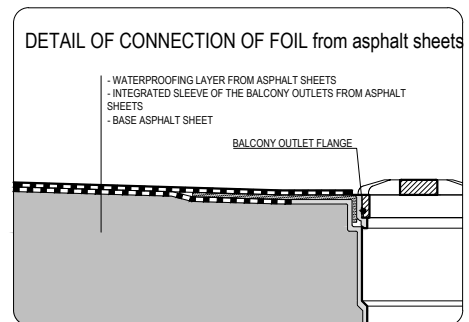
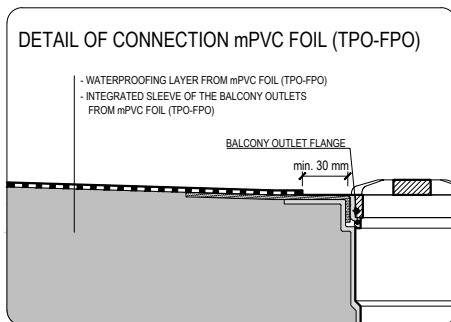
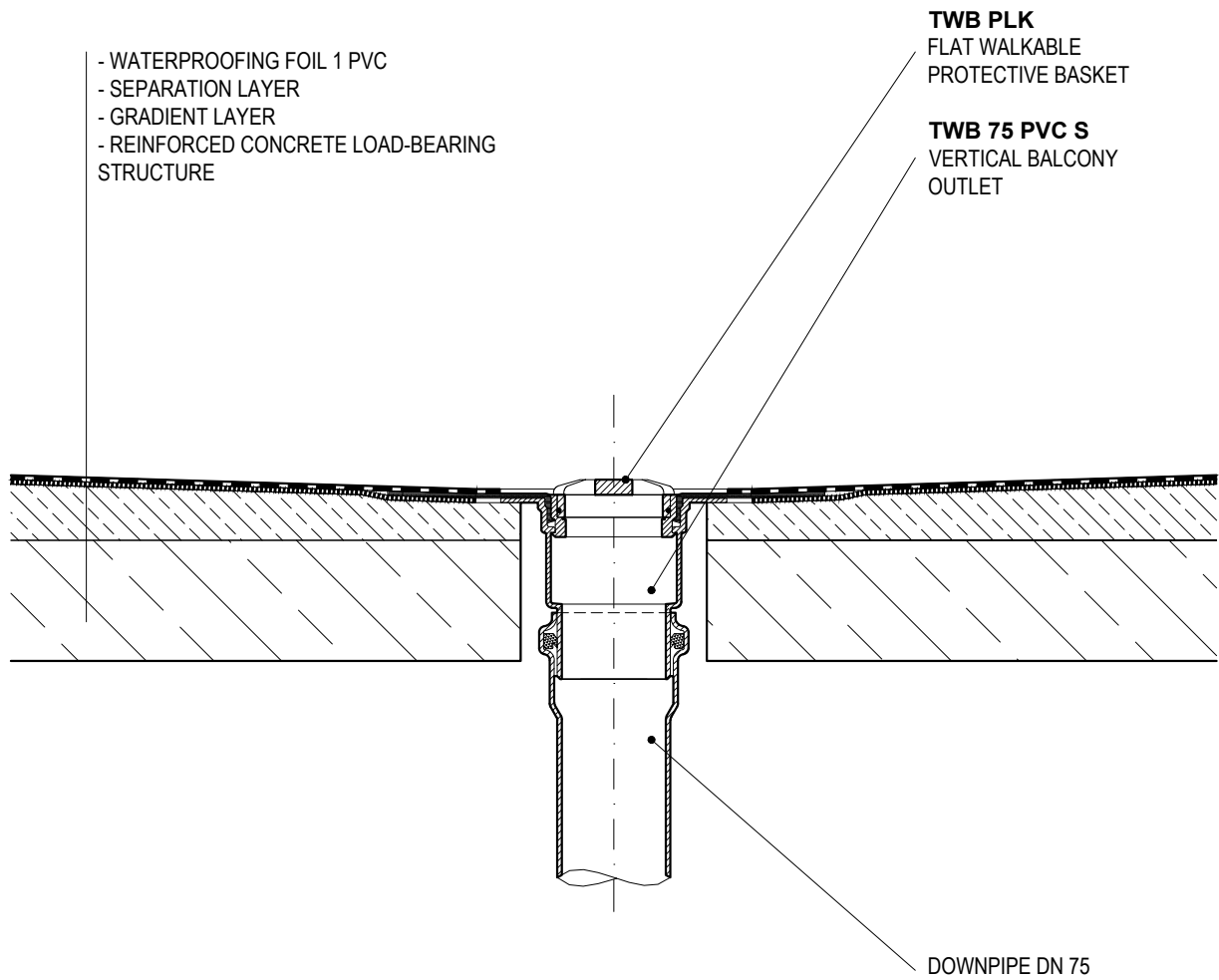
Scale **1:5**

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Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT UNINSULATED TERRACE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC S, TWB PLK**

Scale **1:5**

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 OF FLAT ROOFS

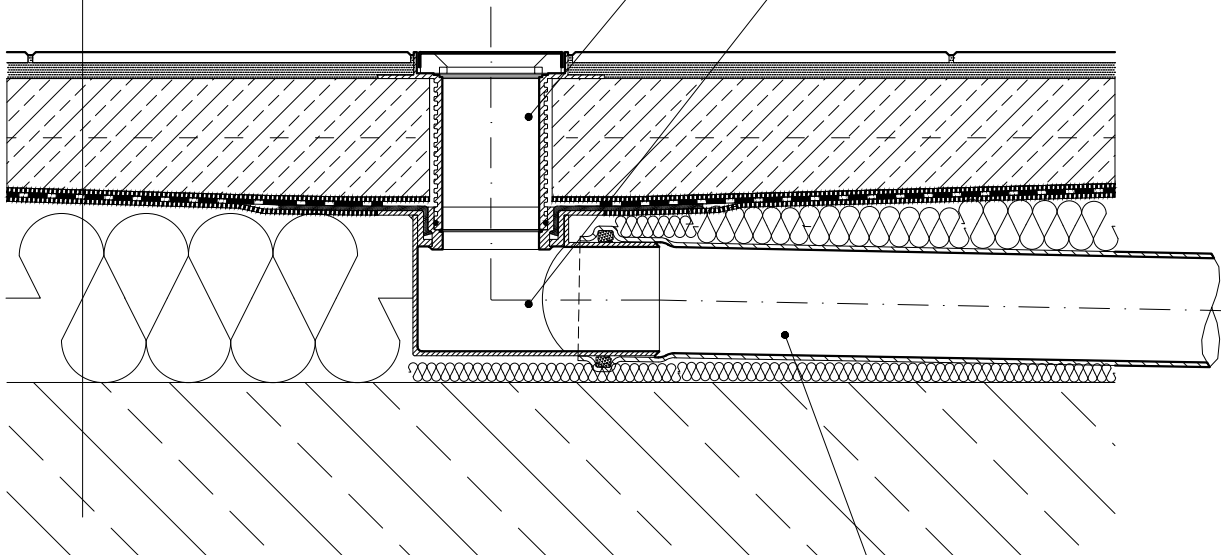
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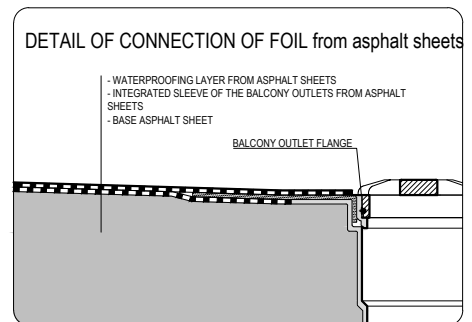
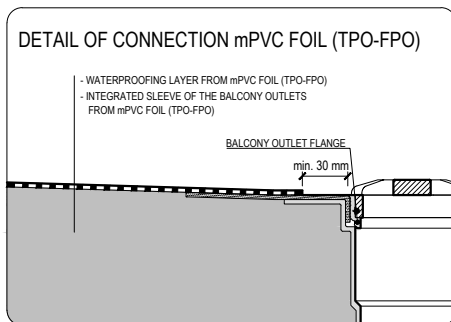
- PAVING
- GLUE UNDER PAVING
- WATERPROOFING LAYER - SCREED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING FOIL 1 BIT
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWB TER TH
ATTACHMENT FOR BALCONY
OUTLETS

TWB 75 BIT V
HORIZONTAL BALCONY
OUTLET



DOWNPIPE DN 75



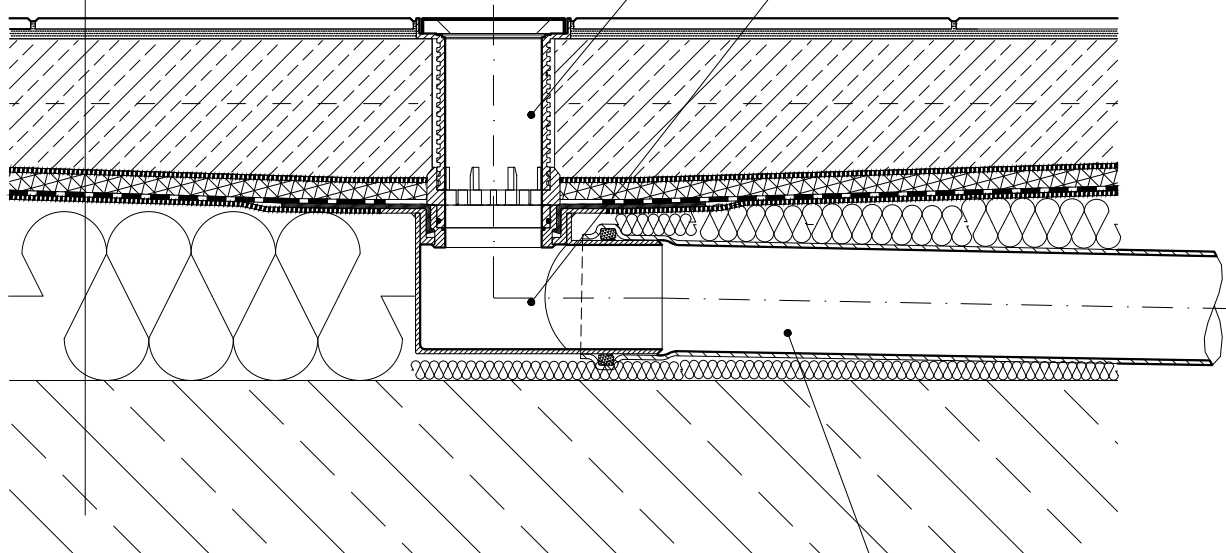
Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TWB 75 PVC V, TWB TER TH

Scale 1:5

- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- DRAINAGE LAYER
- WATERPROOFING FOIL 1 BIT
- SEPARATION LAYER
- HEAT INSULATION
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWB TER
ATTACHMENT FOR BALCONY
OUTLETS

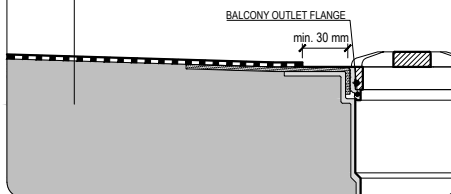
TWB 75 BIT V
HORIZONTAL BALCONY
OUTLET



DOWNPIPE DN 75

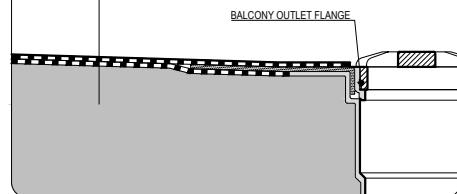
DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)

- WATERPROOFING LAYER FROM mPVC FOIL (TPO-FPO)
- INTEGRATED SLEEVE OF THE BALCONY OUTLETS FROM mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets

- WATERPROOFING LAYER FROM ASPHALT SHEETS
- INTEGRATED SLEEVE OF THE BALCONY OUTLETS FROM ASPHALT SHEETS
- BASE ASPHALT SHEET



Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TWB 75 PVC V, TWB TER

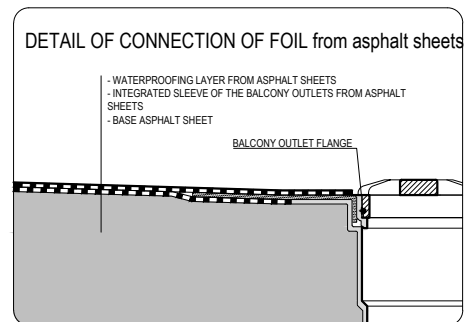
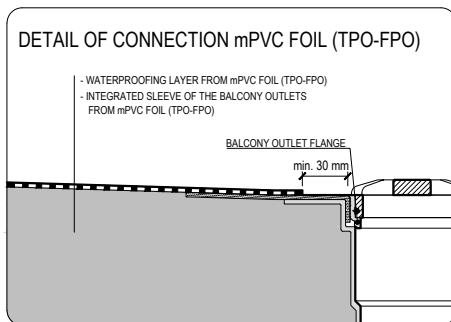
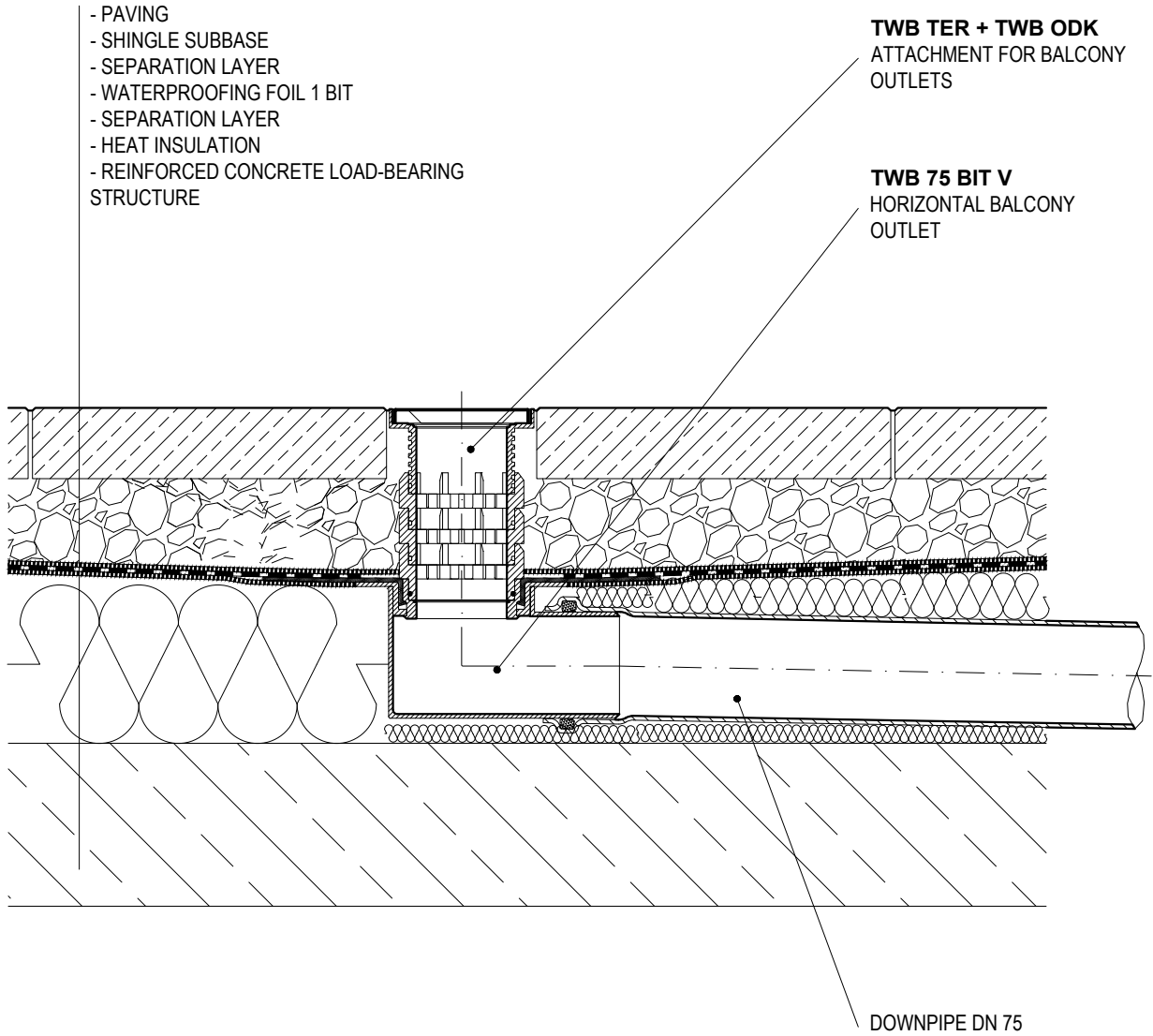
Scale 1:5

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Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN SUBBASE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC V, TWB TER, TWB ODK**

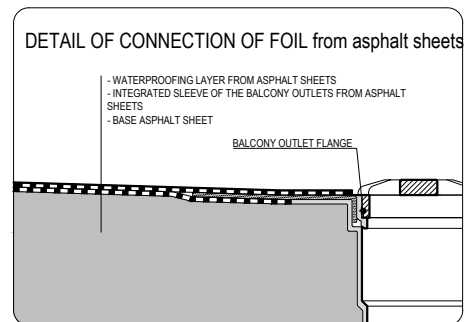
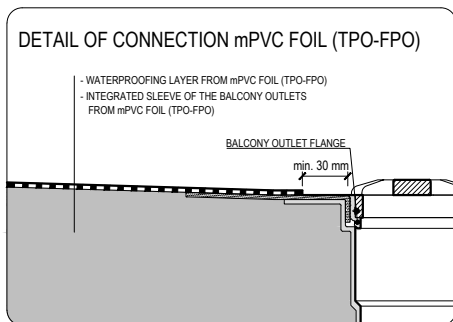
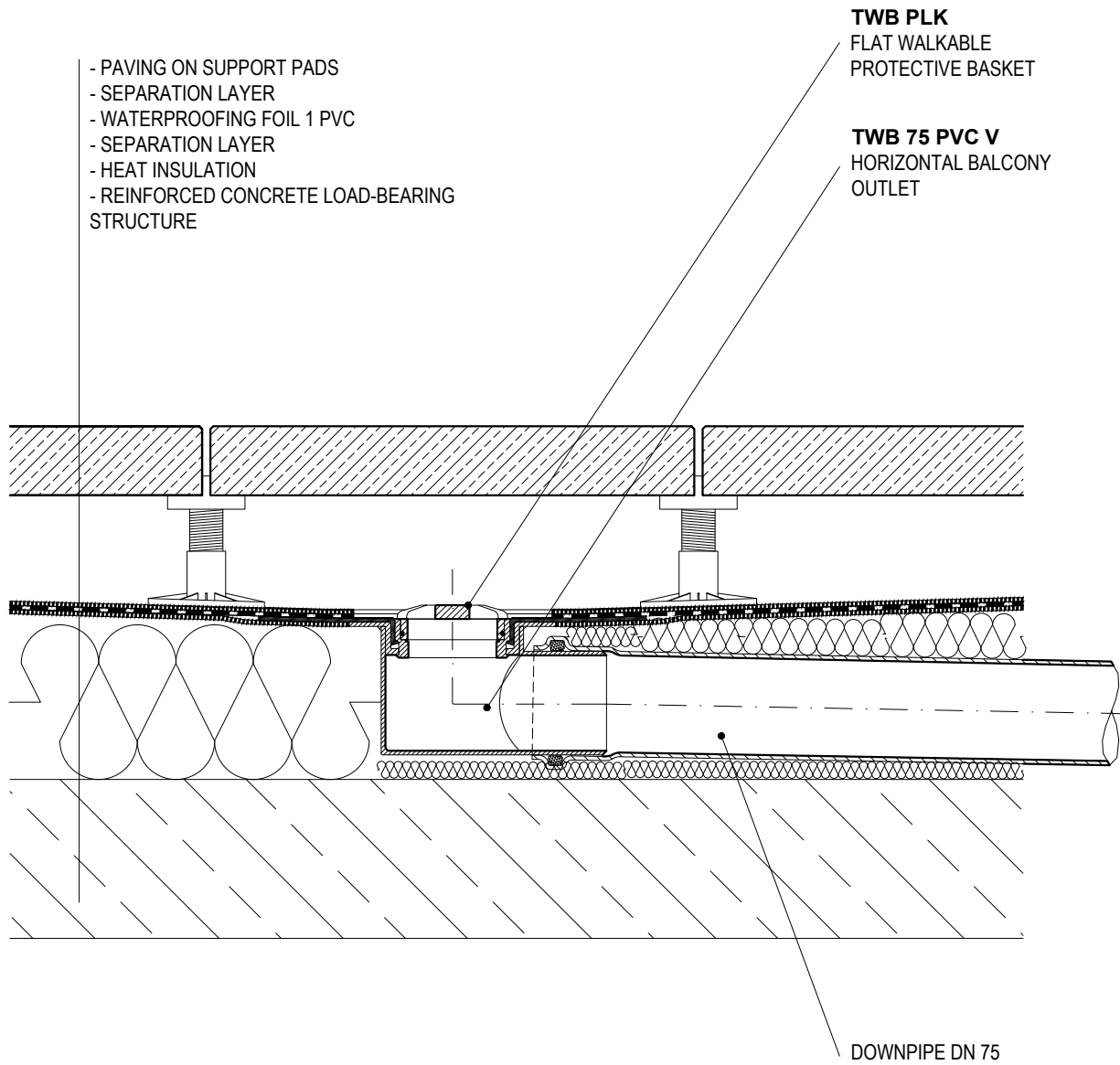
Scale **1:5**

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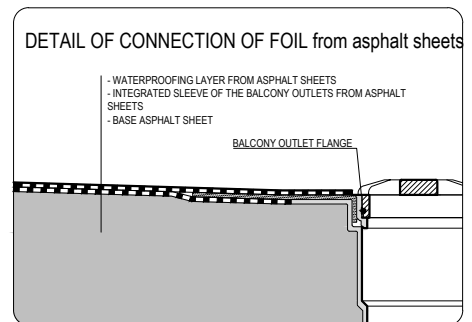
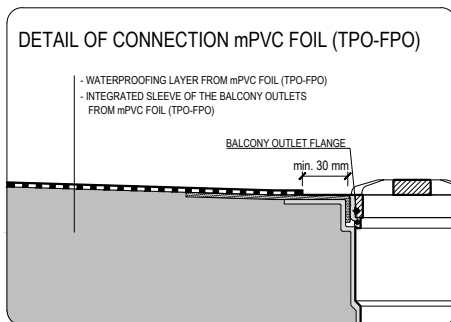
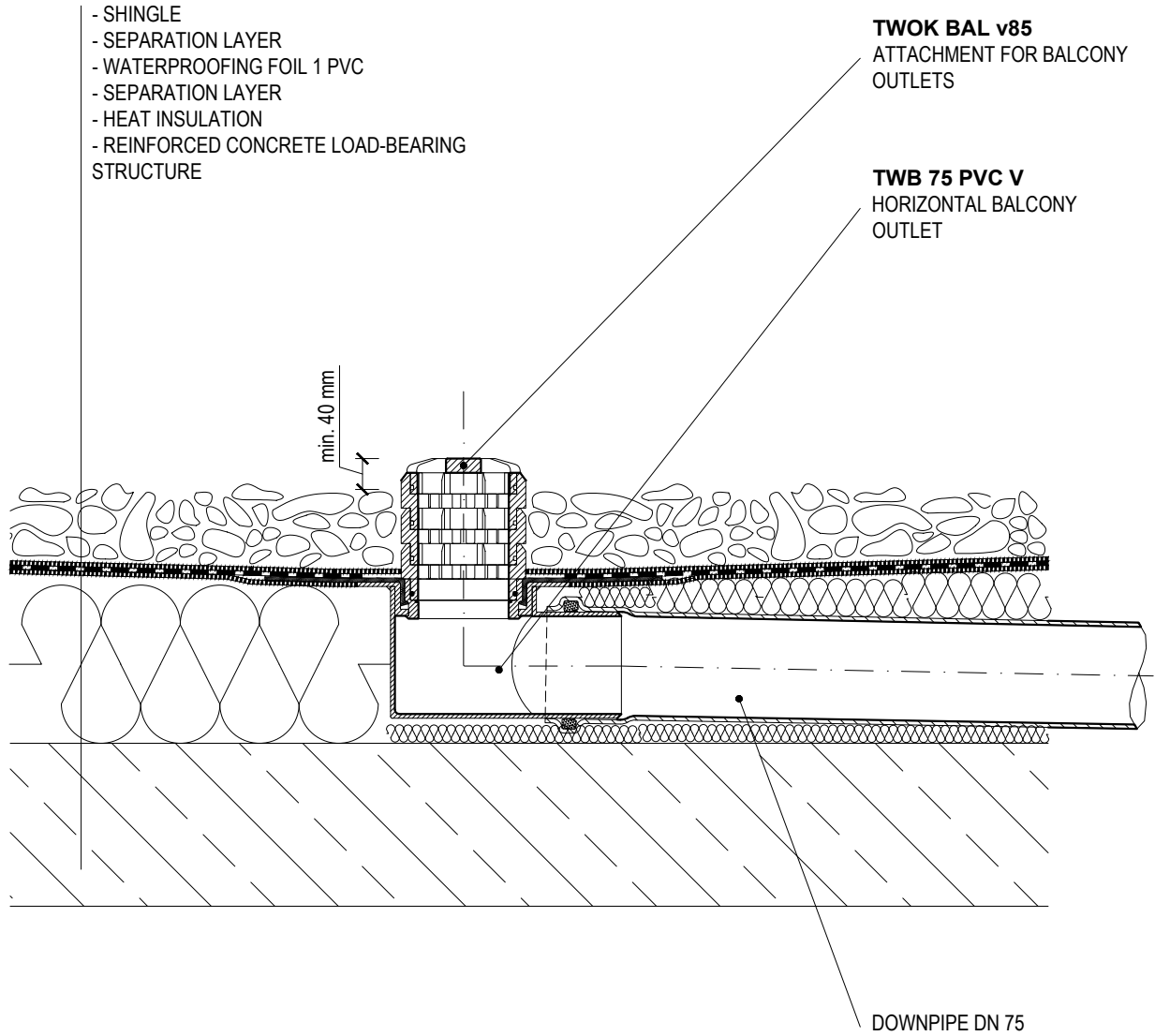
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Name	DETAIL OF FITTING THE BALCONY OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING ON SUPPORT PADS
Construction	REINFORCED CONCRETE
Components	TWB 75 PVC V, TWB PLK

Scale 1:5



Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT INSULATED TERRACE WITH SHINGLE**

Construction **REINFORCED CONCRETE**

Components **TWB 75 PVC V, TWOK BAL v85**

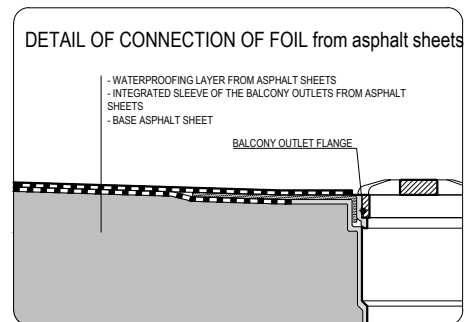
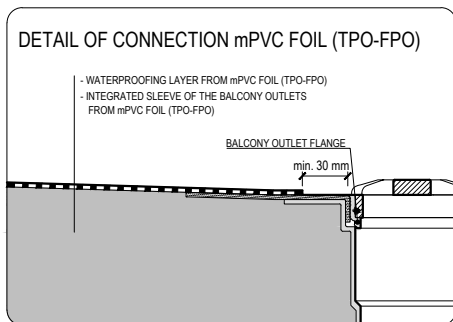
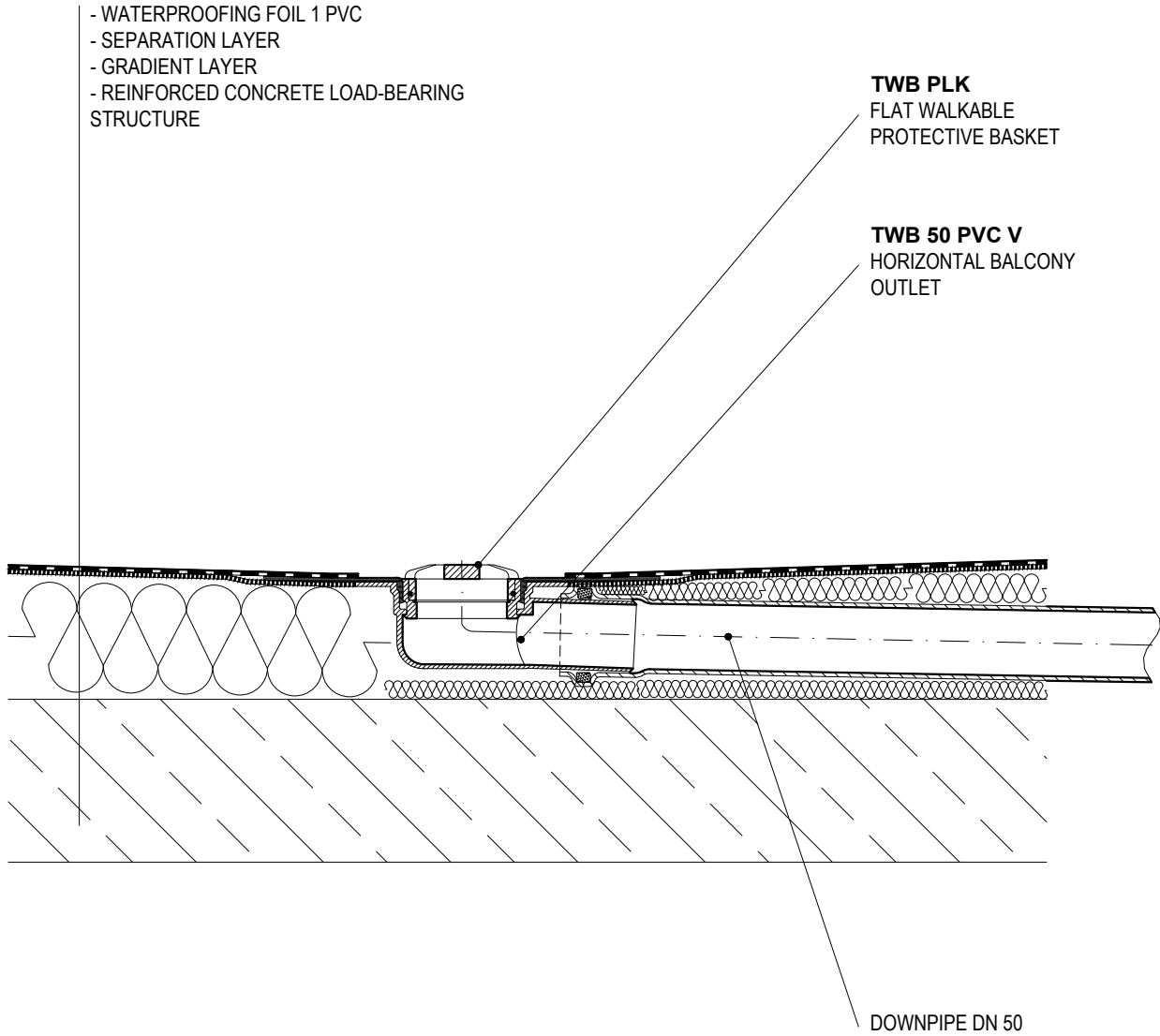
Scale **1:5**

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Name **DETAIL OF FITTING THE BALCONY OUTLET**

Type **SINGLE-DECK HEAT INSULATED TERRACE**

Construction **REINFORCED CONCRETE**

Components **TWB 50 PVC V, TWB PLK**

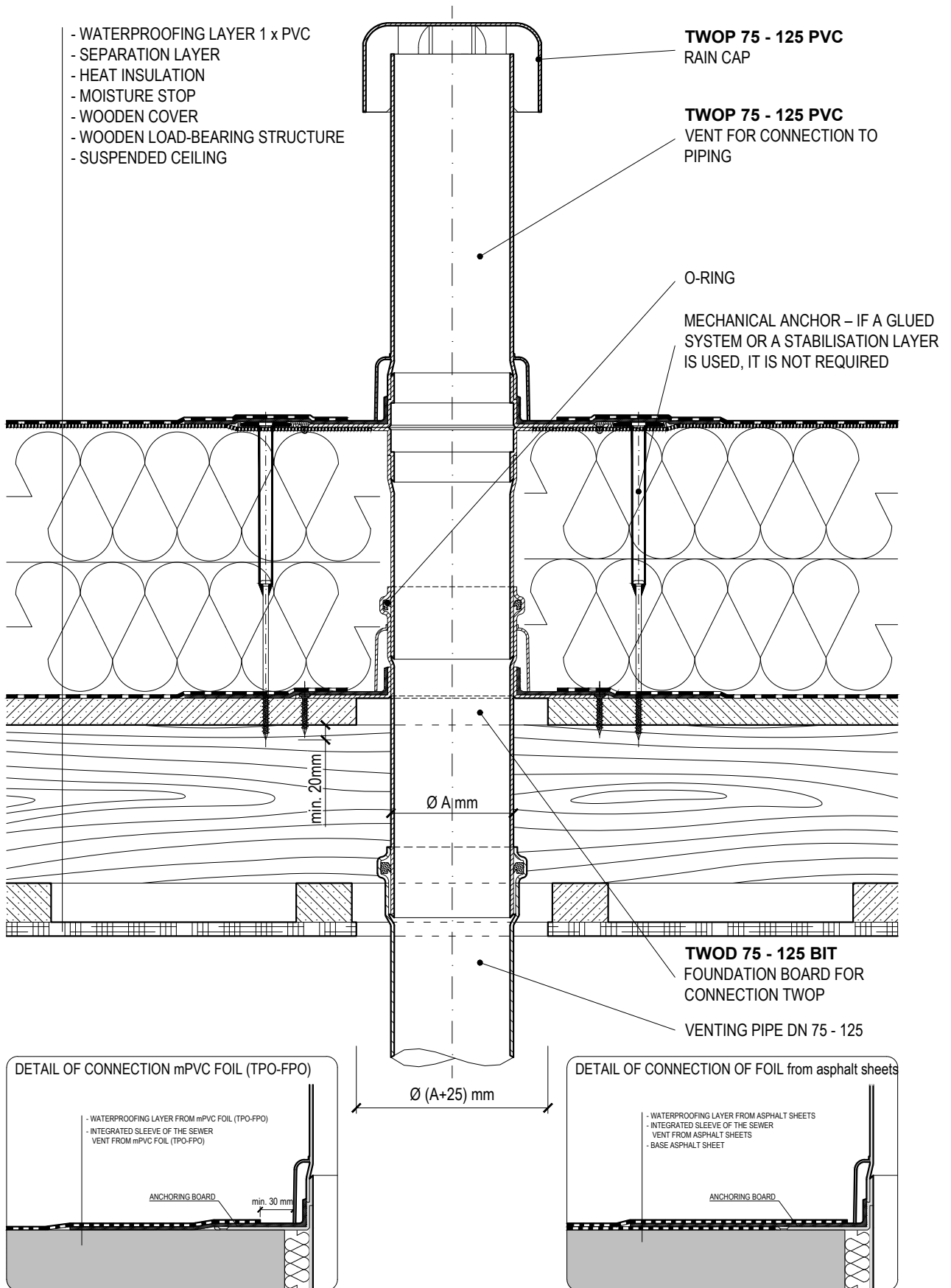
Scale **1:5**

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Name **DETAIL OF FITTING THE PIPE VENT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **WOOD**

Components **TWOP 110 PVC, TWOD 110 BIT**

Scale **1:5**

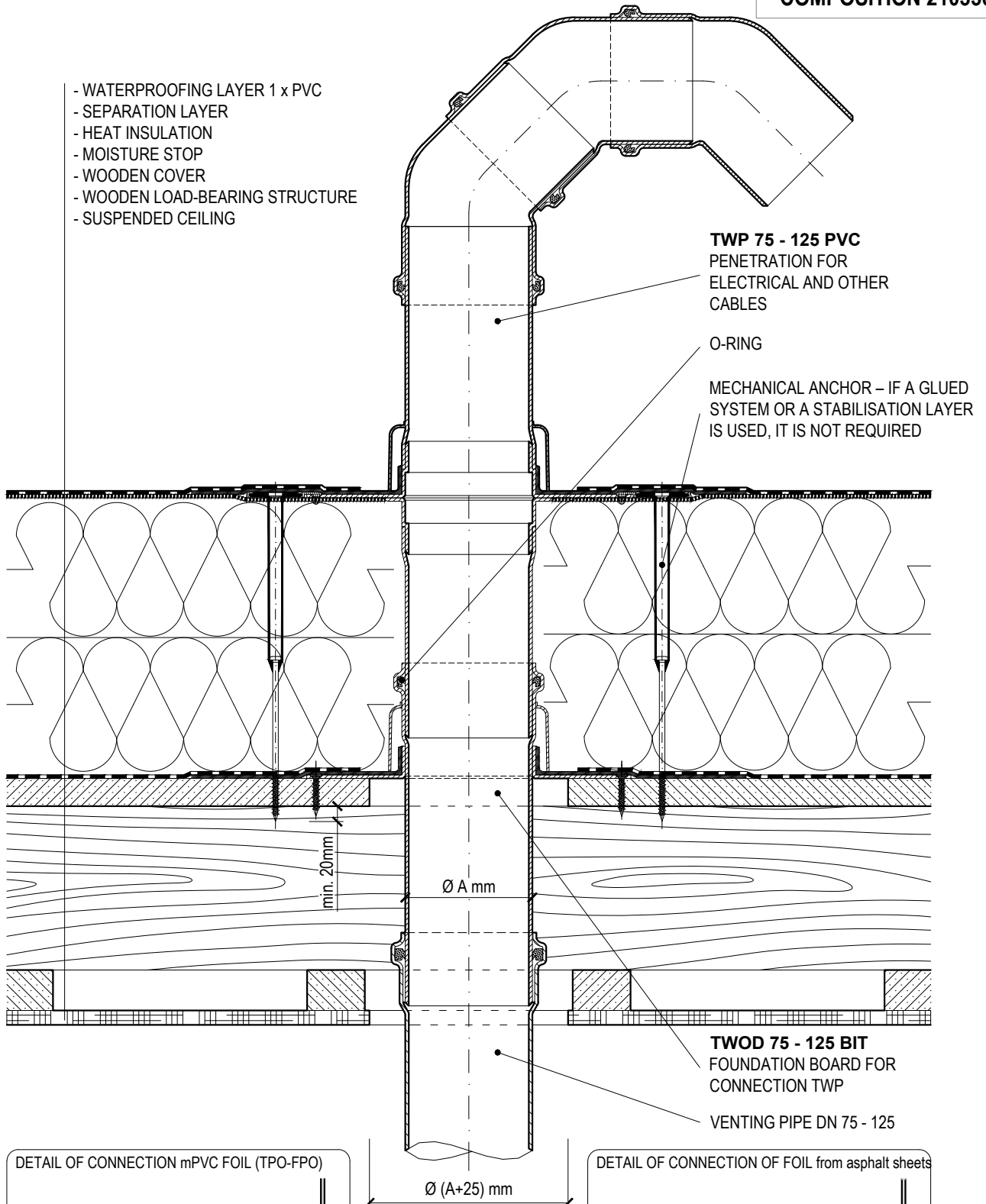
TOPWET

SYSTEMS FOR DRAINAGE
 OF FLAT ROOFS

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www.topwet.cz

- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- WOODEN COVER
- WOODEN LOAD-BEARING STRUCTURE
- SUSPENDED CEILING



TWP 75 - 125 PVC
PENETRATION FOR
ELECTRICAL AND OTHER
CABLES

O-RING

MECHANICAL ANCHOR – IF A GLUED
SYSTEM OR A STABILISATION LAYER
IS USED, IT IS NOT REQUIRED

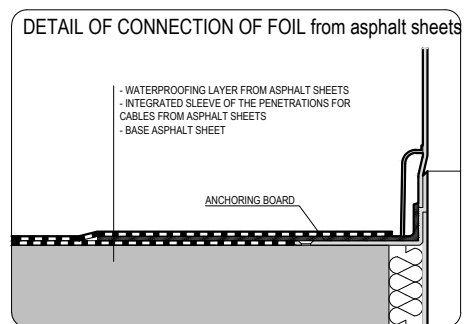
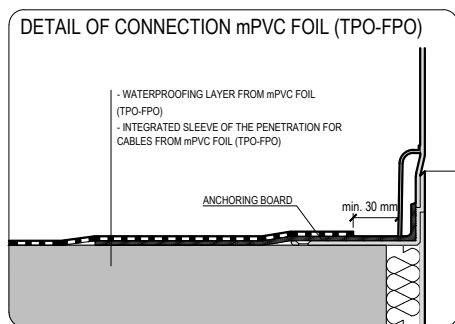
min. 20mm

Ø A mm

TWOD 75 - 125 BIT
FOUNDATION BOARD FOR
CONNECTION TWP

VENTING PIPE DN 75 - 125

Ø (A+25) mm



Name **DETAIL OF FITTING THE PENETRATION FOR CABLES**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF**

Construction **WOOD**

Components **TWP 110 PVC, TWOD 110 BIT**

Scale **1:5**

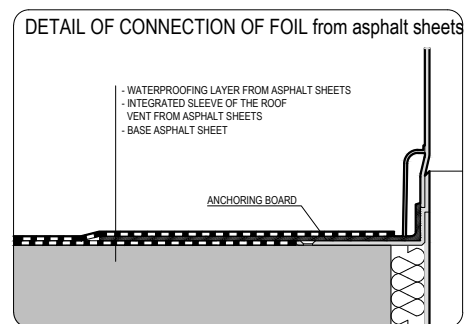
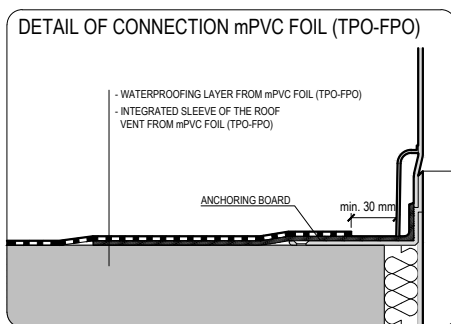
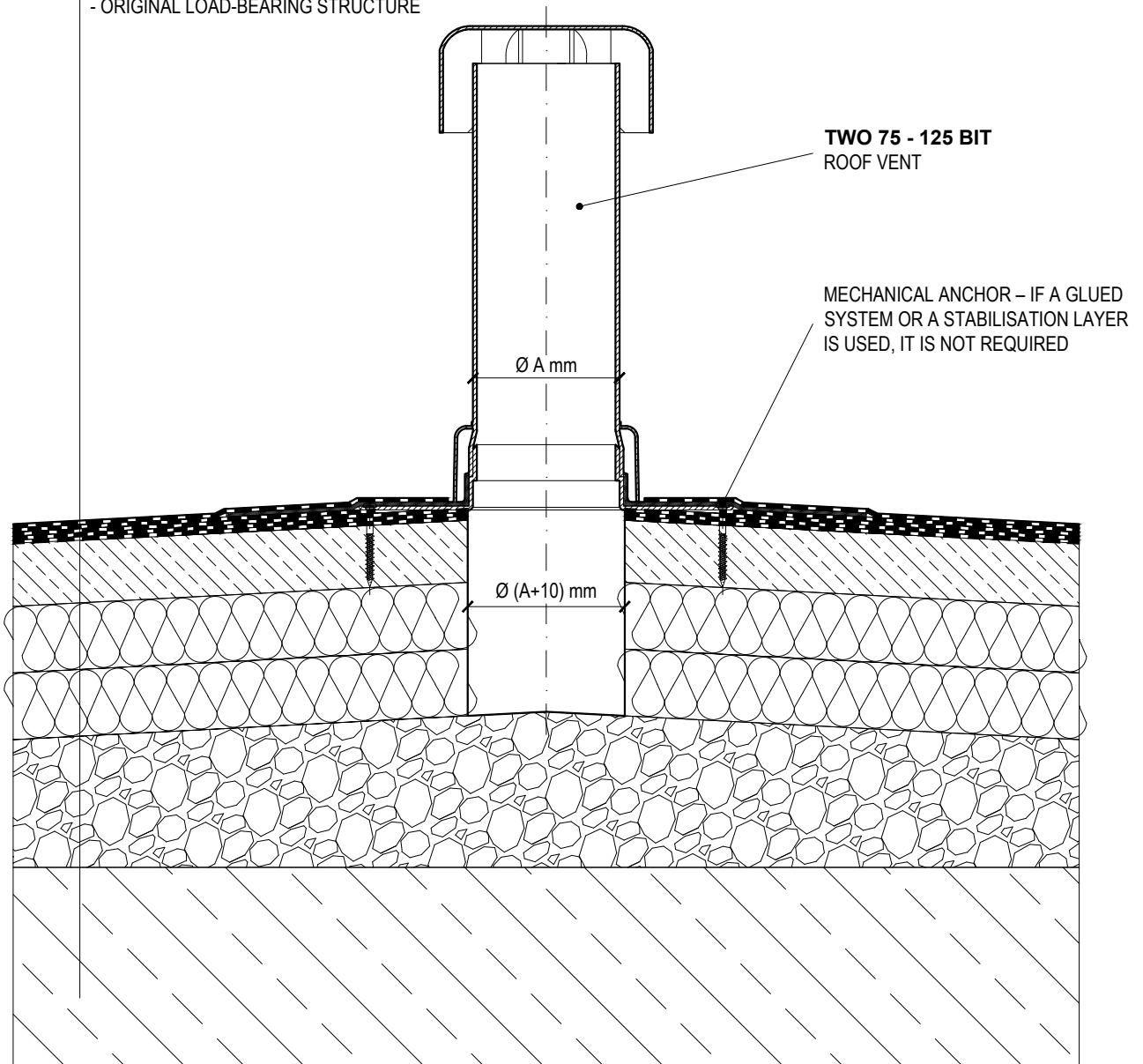
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- WATERPROOFING LAYER 1 ASPHALT SHEETS
- ORIGINAL ROOF DECK
- CONCRETE SCREED
- GRADIENT LAYER, KERAMZITE
- ORIGINAL LOAD-BEARING STRUCTURE



Name **DETAIL OF FITTING THE VENT**

Type **SINGLE-DECK HEAT INSULATED NON-WALKABLE ROOF, RECONSTRUCTION**

Construction **REINFORCED CONCRETE**

Components **TW SAN 90 PVC**

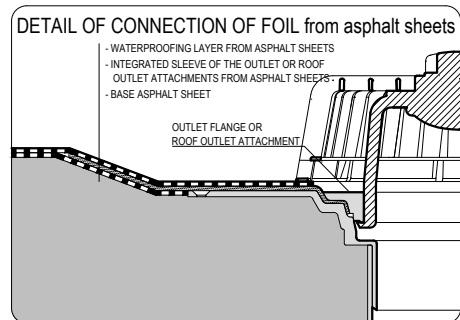
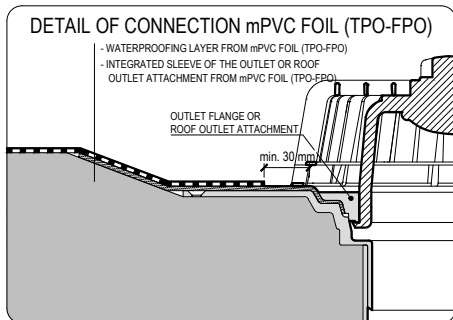
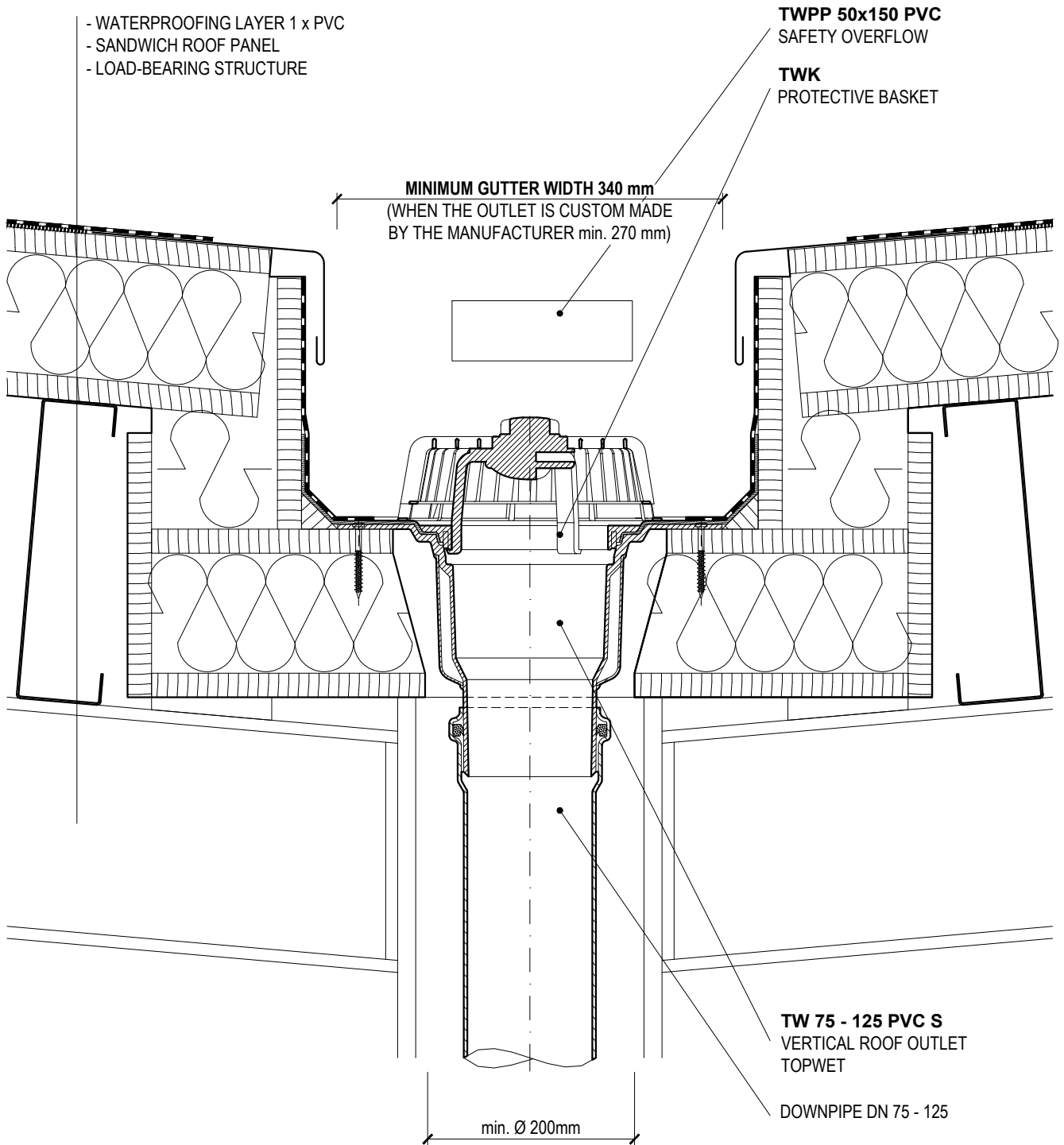
Scale **1:5**

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Name **DETAIL OF THE ROOF OUTLET FIT IN THE GUTTER**

Type **OUTLET IN THE VALLEY GUTTER**

Construction **STEEL FRAME**

Components **TW 110 PVC S**

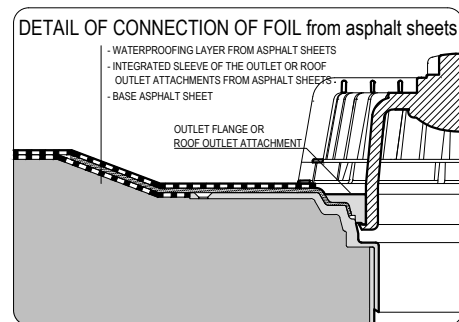
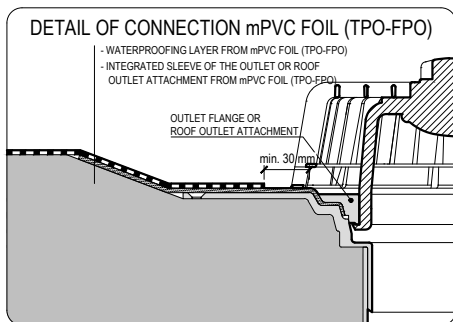
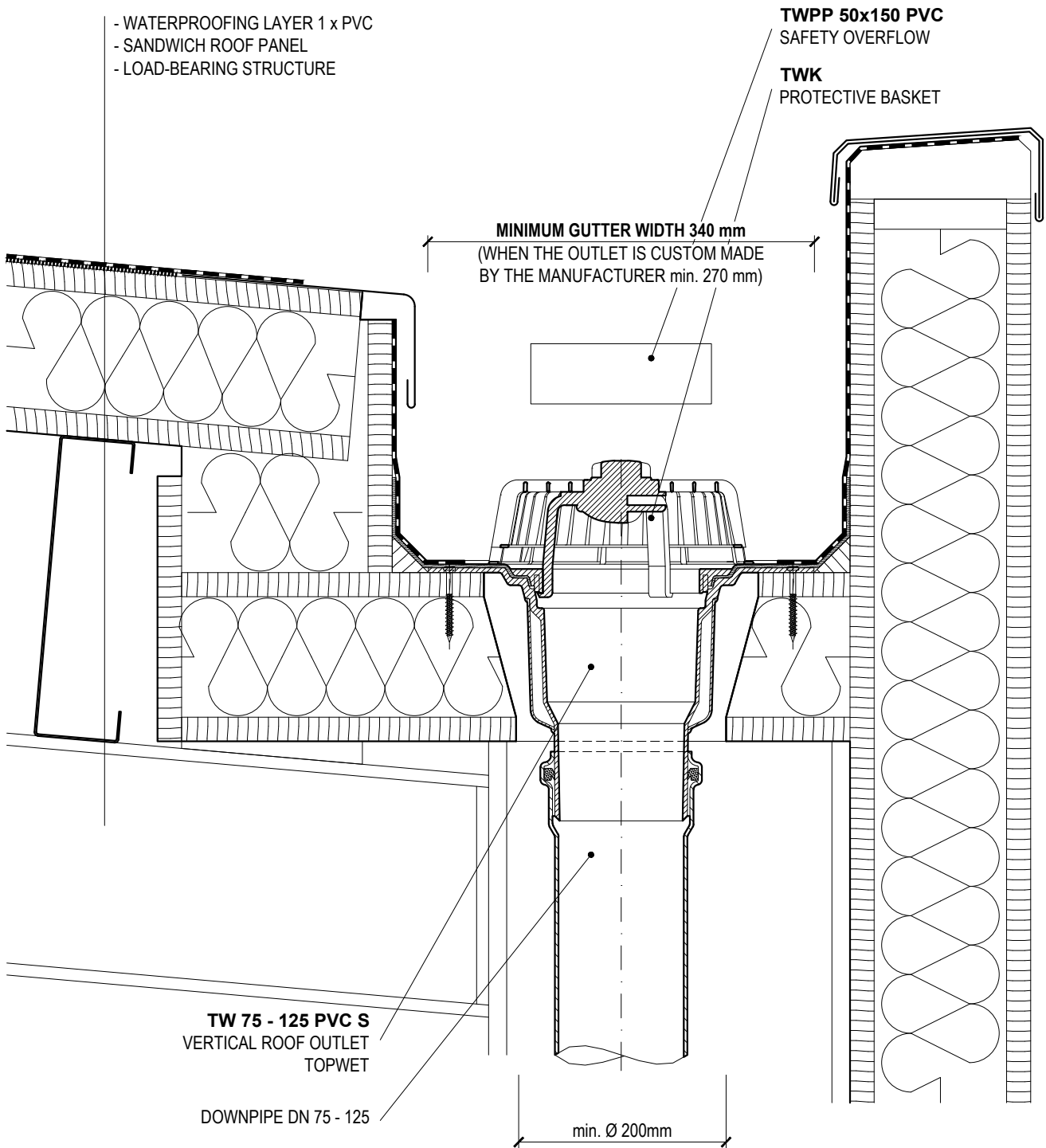
Scale **1:5**

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SYSTEMS FOR DRAINAGE OF FLAT ROOFS

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Name **DETAIL OF THE ROOF OUTLET FIT IN THE GUTTER**

Type **OUTLET IN THE PARAPET GUTTER**

Construction **STEEL FRAME**

Components **TW 110 PVC S**

Scale **1:5**

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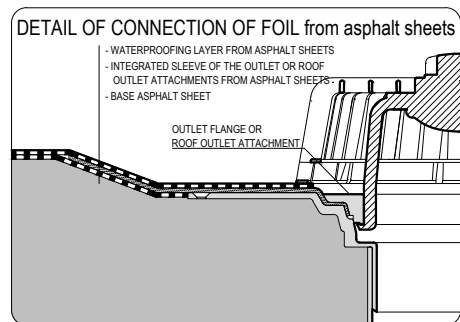
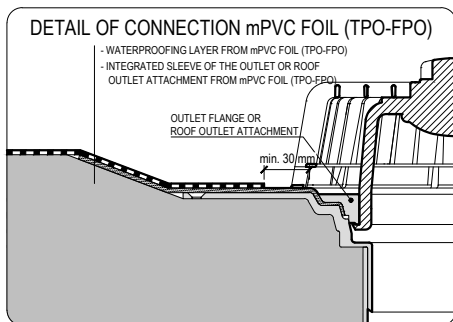
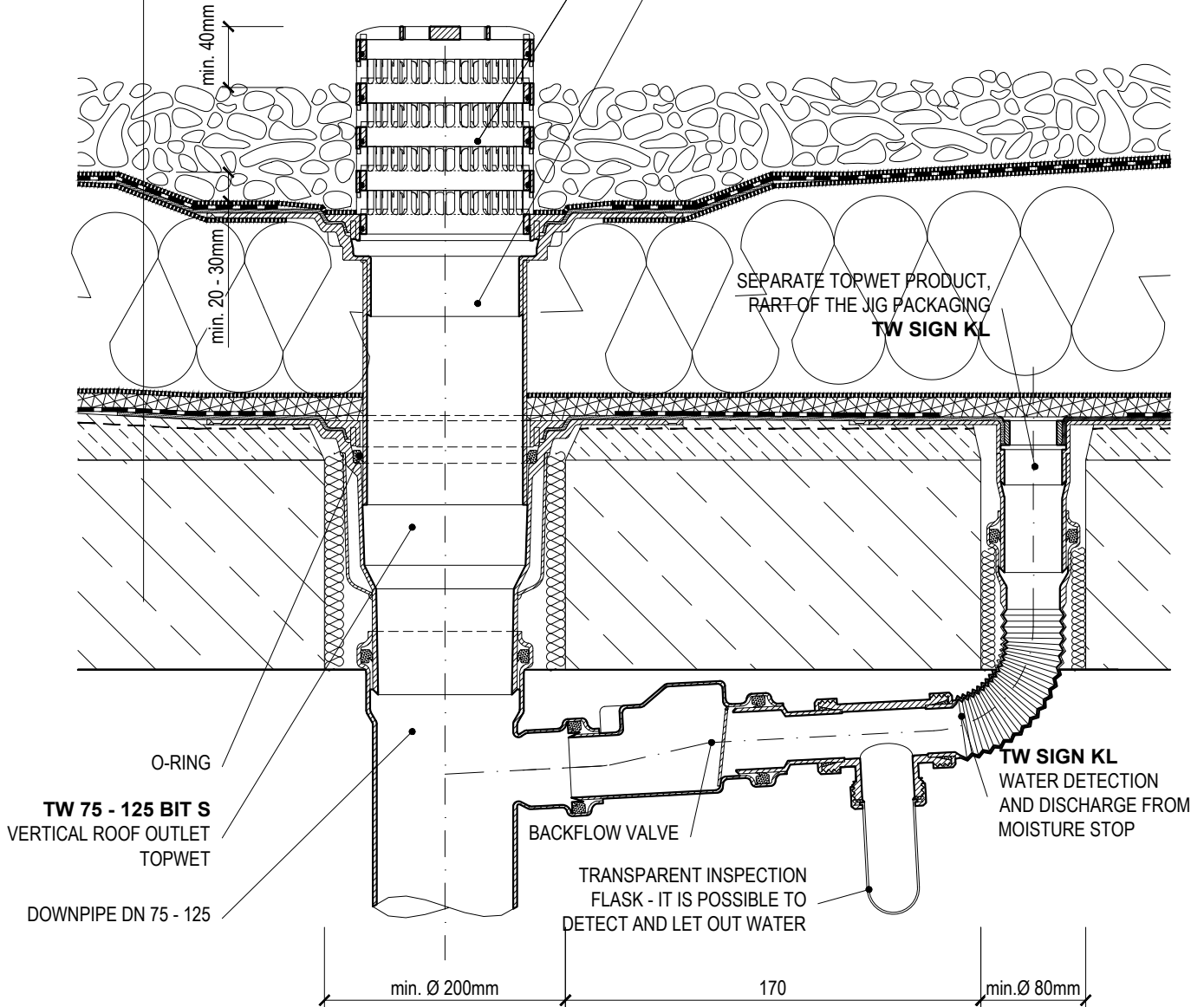
www.topwet.cz

- SHINGLE
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- HEAT INSULATION
- SEPARATION LAYER
- DRAINAGE LAYER
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWOK v100 - 140
PERFORATED BASKET
FOR ROOFS WITH
SHINGLE

TWN 220 - 500 PVC
ATTACHMENT FOR ROOF
OUTLETS

SEPARATE TOPWET PRODUCT,
PART OF THE JIG PACKAGING
TW SIGN KL



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED SINGLE-DECK LOADED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 BIT S, TWN 220 PVC, TWOK v140, TWPP 50 BIT**

Scale **1:5**

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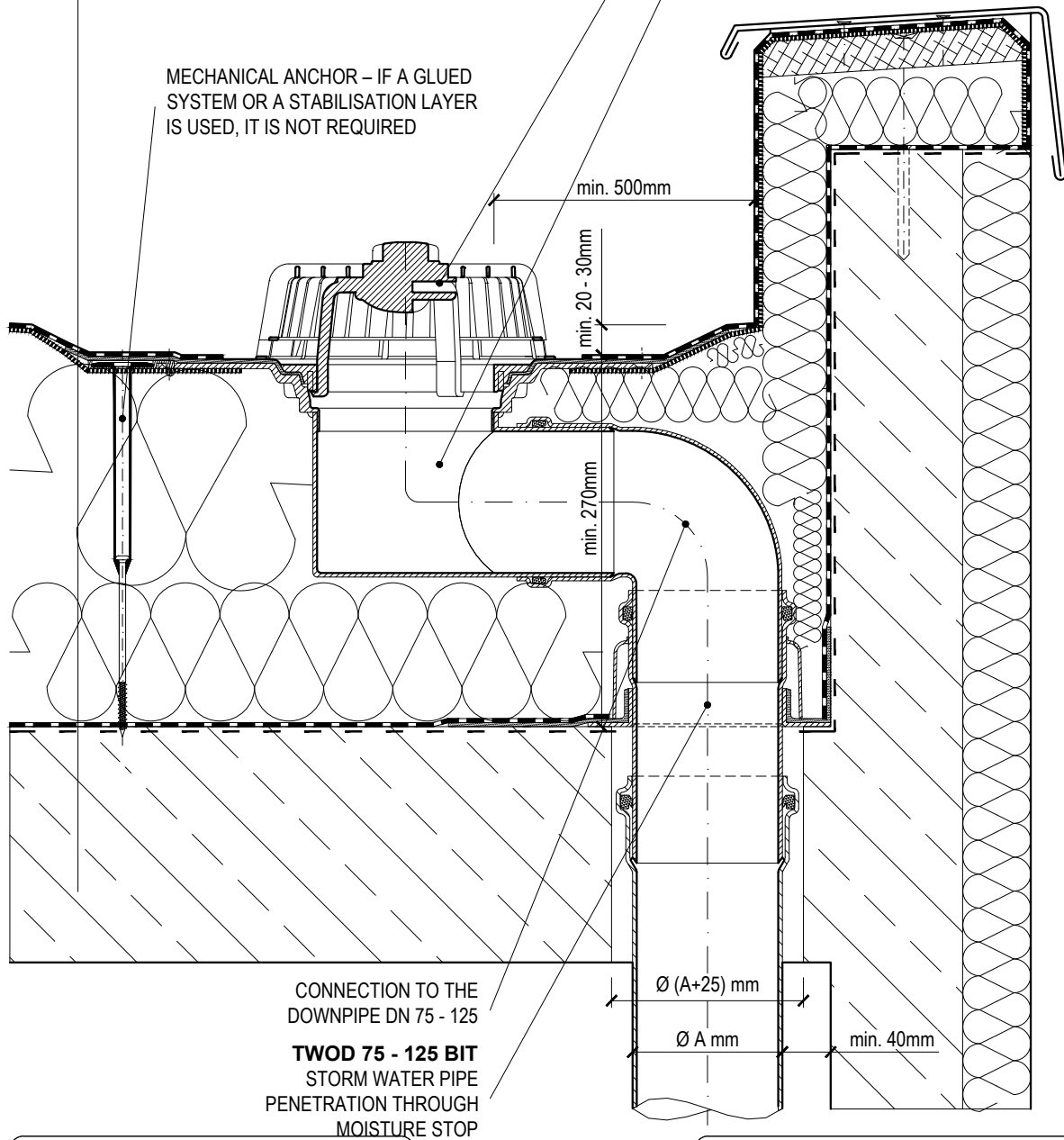
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- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- MOISTURE STOP
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWK
PROTECTIVE BASKET

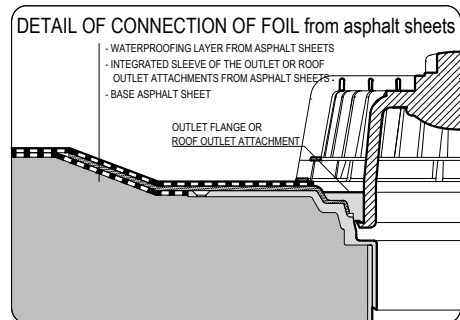
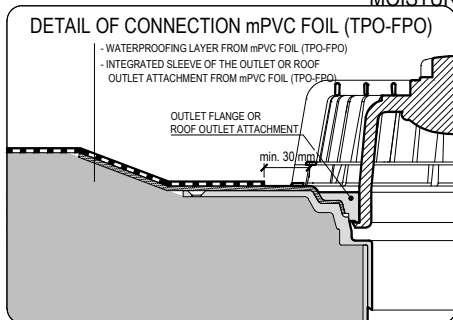
TW 75 - 125 PVC V
HORIZONTAL ROOF
OUTLET

MECHANICAL ANCHOR – IF A GLUED
SYSTEM OR A STABILISATION LAYER
IS USED, IT IS NOT REQUIRED



CONNECTION TO THE
DOWNSPIPE DN 75 - 125

TWOD 75 - 125 BIT
STORM WATER PIPE
PENETRATION THROUGH
MOISTURE STOP



Name **DETAIL OF THE ROOF OUTLET FIT**

Type **SINGLE-DECK HEAT INSULATED ROOF**

Construction **REINFORCED CONCRETE**

Components **TW 110 PVC V, TWOD 110 BIT**

Scale **1:5**

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SYSTEMS FOR DRAINAGE
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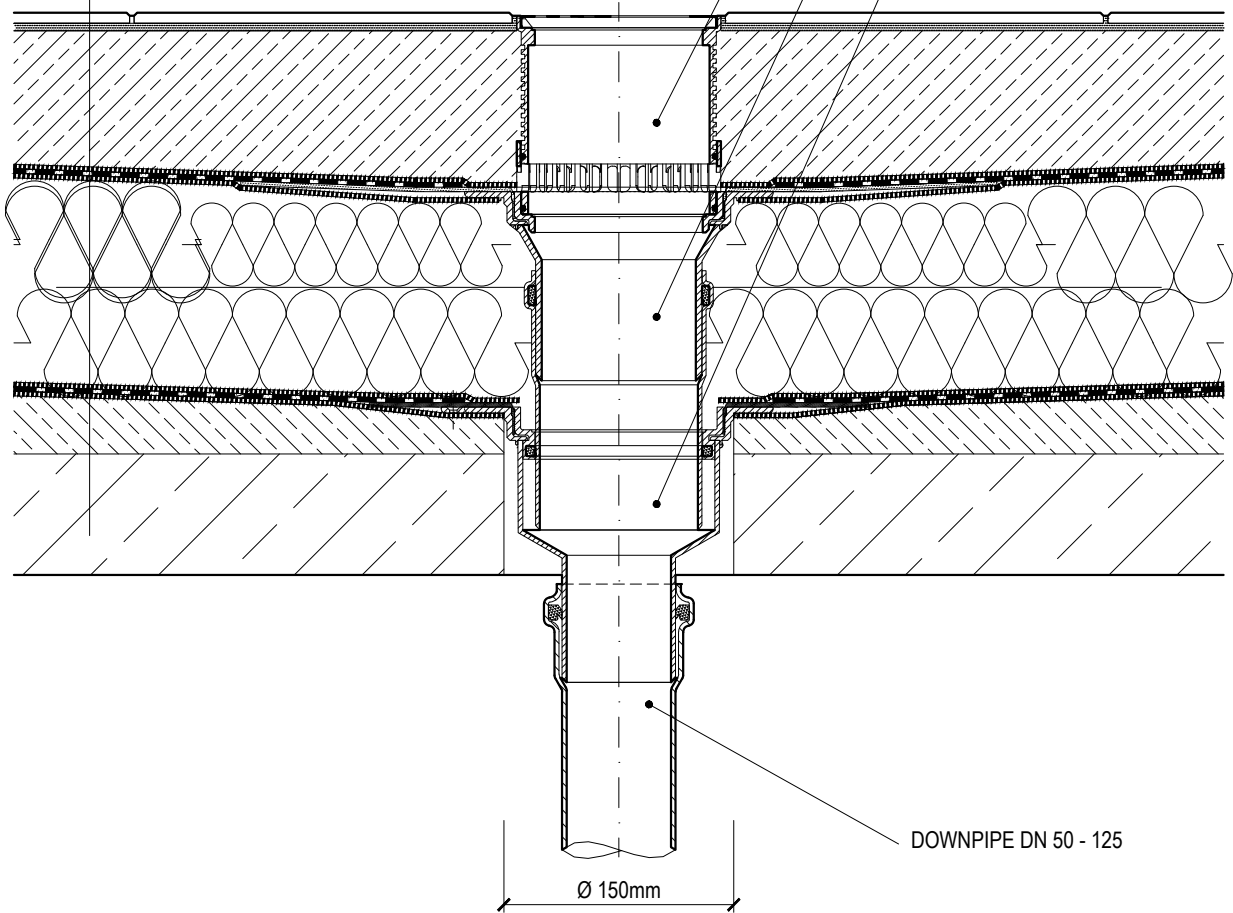
www.topwet.cz

- PAVING
- MORTAR BED
- CONCRETE SCREED - REINFORCED
- SEPARATION LAYER
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TW TER
ATTACHMENT FOR TERRACE
OUTLETS

TWTN
ATTACHMENT FOR TERRACE
OUTLETS

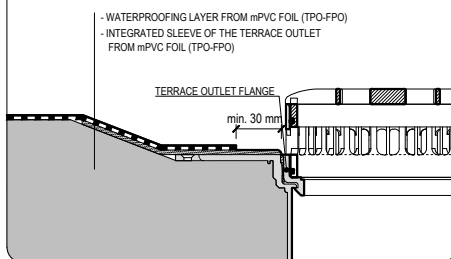
TWT 75 - 125 PVC S
VERTICAL TERRACE
OUTLET



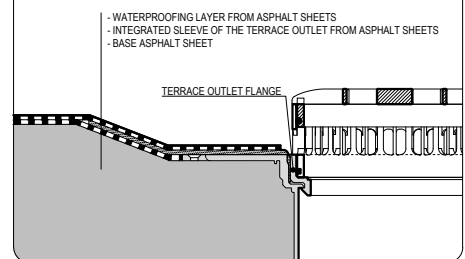
DOWNPIPE DN 50 - 125

Ø 150mm

DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets



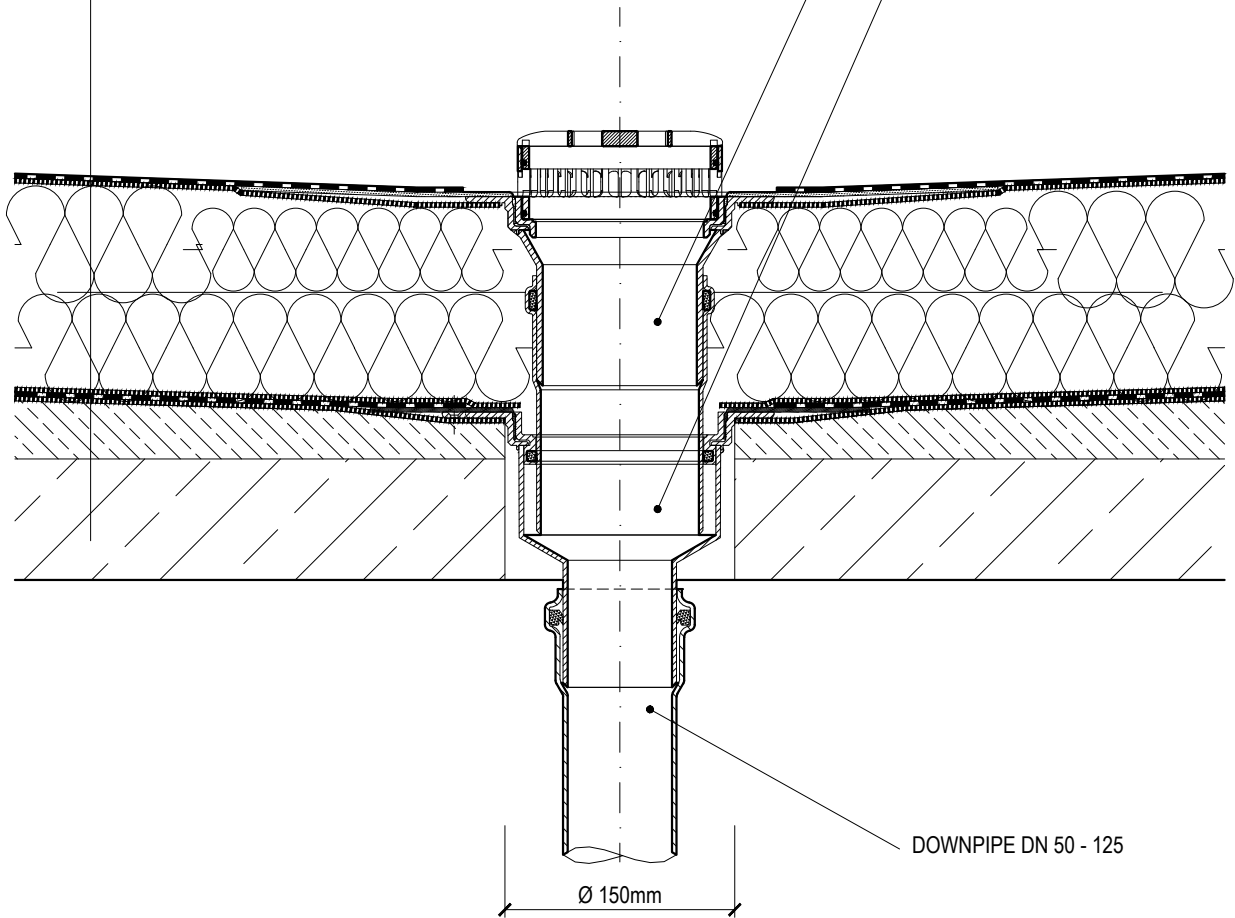
Name	DETAIL OF FITTING THE TERRACE OUTLET
Type	SINGLE-DECK HEAT INSULATED TERRACE WITH PAVING IN CONCRETE
Construction	REINFORCED CONCRETE
Components	TWT 75 PVC S, TWTN, TW TER

Scale 1:5

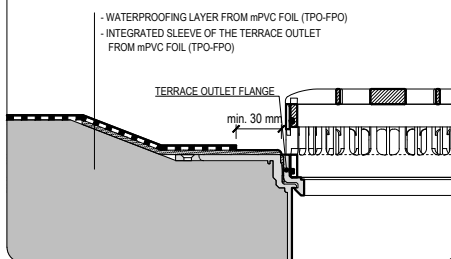
- WATERPROOFING LAYER 1 x PVC
- SEPARATION LAYER
- HEAT INSULATION
- SEPARATION LAYER
- WATERPROOFING FOIL 1 PVC
- SEPARATION LAYER
- GRADIENT LAYER
- REINFORCED CONCRETE LOAD-BEARING STRUCTURE

TWTN
ATTACHMENT FOR TERRACE
OUTLETS

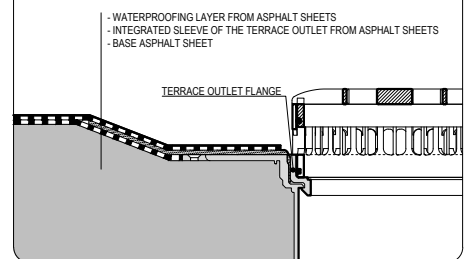
TWT 75 - 125 PVC S
VERTICAL TERRACE
OUTLET



DETAIL OF CONNECTION mPVC FOIL (TPO-FPO)



DETAIL OF CONNECTION OF FOIL from asphalt sheets



Name **DETAIL OF FITTING THE TERRACE OUTLET**

Type **SINGLE-DECK HEAT INSULATED TERRACE**

Construction **REINFORCED CONCRETE**

Components **TWT 75 PVC S, TWTN**

Scale **1:5**

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