



SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

TECHNICAL DETAILS SPL PVC – 001.

**VALID FOR SIKAPLAN® G, SIKAPLAN® VG, SIKAPLAN® VGT,
SIKAPLAN® VGW, SIKAPLAN® VGWT AND SIKAPLAN® U**

SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

NUMBERING OF DETAILS

SPL PVC - 001.00.01

Membrane Technologies

SF TPO -	Sarnafil® TPO
SF PVC -	Sarnafil® PVC
SPL TPO -	Sikaplan® TPO
SPL PVC -	Sikaplan® PVC
SB T -	SikaBit® T

Roofing Systems

001.	Mechanically Fastened Roof System on Metal Deck with Thermal Insulation
002.	Mechanically Fastened Roof System on Wood Deck with Thermal Insulation
003.	Mechanically Fastened Roof System on Concrete Deck with Thermal Insulation
004.	Mechanically Fastened Roof System on Wood Deck without Thermal Insulation
005.	Mechanically Fastened Roof System on Concrete Deck without Thermal Insulation
020.	Gravel Ballasted Roof System on Concrete Deck with Thermal Insulation
021.	Gravel Ballasted Roof System on Concrete Deck without Thermal Insulation
030.	Inverted Roof System, Loose Laid Membrane on Concrete Deck with Paving Slabs
031.	Inverted Roof System, Loose Laid Membrane on Concrete Deck with Green Roof System
032.	Inverted Roof System, Adhered Membrane on Concrete Deck with Paving Slabs
033.	Inverted Roof System, Adhered Membrane on Concrete Deck with Green Roof System
040.	Utility Roof System on Concrete Deck with Thermal Insulation and Paving Slabs
041.	Utility Roof System on Concrete Deck without Thermal Insulation and Paving Slabs
050.	Green Roof System - Extensive on Concrete Deck with Thermal Insulation
051.	Green Roof System - Intensive on Concrete Deck with Thermal Insulation
060.	Adhered Roof System on Concrete Deck with Thermal Insulation
061.	Adhered Roof System on Concrete Deck without Thermal Insulation
100.	Fully Torched System to a Cement Mortar Layer on Concrete Deck with Thermal Insulation
101.	Fully Torched System on Concrete Deck without Thermal Insulation

01

Variants

00.	Build-up
01.	Parapet
02.	Roof Edge Termination
03.	Upstand
04.	Skylight
05.	Roof Drain (Outlet)
06.	Scupper
07.	Overflow
08.	Vent Pipe / Post
09.	Gutter
10.	Movement Joint
11.	Penetration
12.	Foundation
13.	Various

Details

SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

LIST OF DETAILS

SPL PVC - 001.00.01 - Build-up - Sarnafast® Tube Spot Fastening System - Sarnabar® Tube Perimeter Securement
SPL PVC - 001.00.02 - Build-up - Sarnafast® Spot Fastening System - Sarnabar® Perimeter Securement
SPL PVC - 001.00.03 - Build-up - Sarnafast® Tube Spot Fastening System - Sarnafast® Tube Perimeter Securement
SPL PVC - 001.00.04 - Build-up - Sarnafast® Spot Fastening System - Sarnafast® Perimeter Securement

SPL PVC - 001.01.01 - Parapet - Sikaplan® Metal PVC - Mechanically Fastened on Metal Parapet Element
SPL PVC - 001.01.02 - Parapet - Sikaplan® Metal PVC - Adhered on Metal Parapet Element
SPL PVC - 001.01.03 - Parapet - Metal Capping - Mechanically Fastened on Metal Parapet Element
SPL PVC - 001.01.04 - Parapet - Metal Capping - Adhered on Metal Parapet Element

SPL PVC - 001.02.01 - Roof Edge Termination with Gutter

SPL PVC - 001.03.01 - Upstand - Sikaplan® Metal PVC - Mechanically Fastened on Metal Wall Element
SPL PVC - 001.03.02 - Upstand - Sikaplan® Metal PVC - Adhered on Metal Wall Element
SPL PVC - 001.03.03 - Upstand - Counter Flashing - Adhered on Metal Wall Element

SPL PVC - 001.04.01 - Skylight - Sealed - Mechanically Fastened on Skylight System
SPL PVC - 001.04.02 - Skylight - Sealed - Adhered on Skylight System
SPL PVC - 001.04.03 - Skylight - Clamped - Mechanically Fastened on Skylight System
SPL PVC - 001.04.04 - Skylight - Clamped - Adhered on Skylight System

SPL PVC - 001.05.01 - Roof Drain (Outlet)

SPL PVC - 001.06.01 - Scupper - Mechanically Fastened on Metal Element
SPL PVC - 001.06.02 - Scupper - Adhered on Metal Element

SPL PVC - 001.07.01 - Overflow - Mechanically Fastened on Metal Element
SPL PVC - 001.07.02 - Overflow - Adhered on Metal Element

SPL PVC - 001.08.01 - Vent Pipe / Post

SPL PVC - 001.09.01 - Gutter

SPL PVC - 001.10.01 - Movement Joint

Sarnafast® Fasteners and Tubes, thermal insulation fastening

Sikaplan® PVC membrane, mechanically fastened

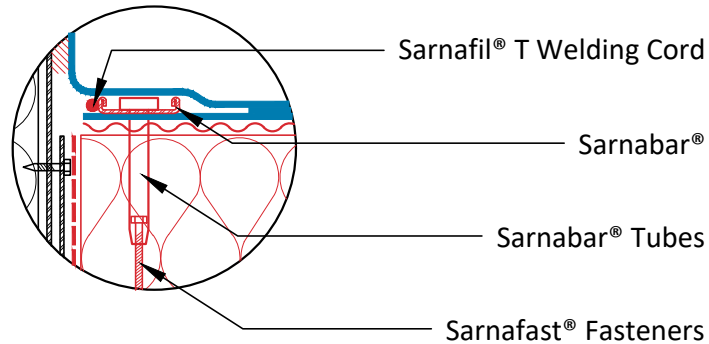
S-Glass Fleece-120 separation layer,
fire protection layer (if required)

Sikatherm® / Sarnatherm®,
thermal insulation

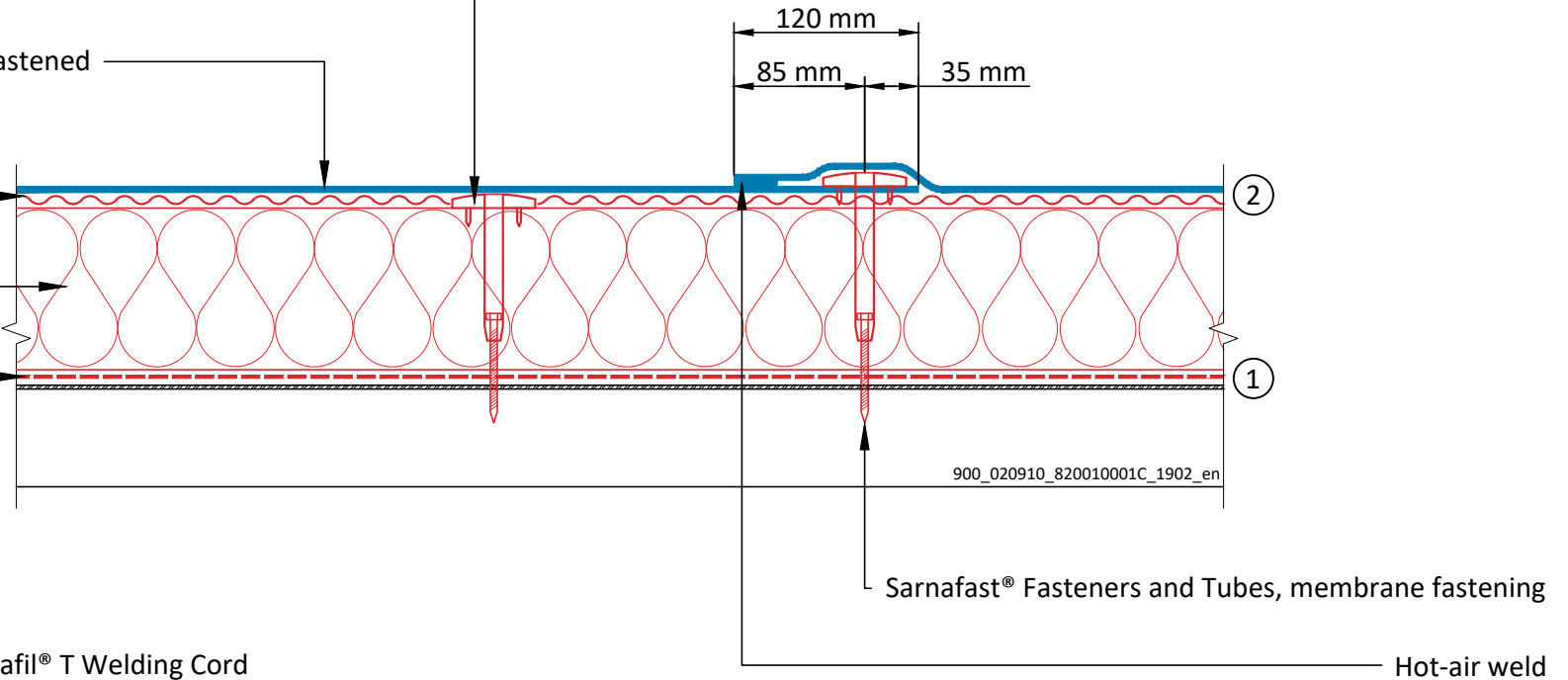
Sarnavap® vapour control layer
(positioning according to local
climate conditions and regulations)

1 Substrate side
2 Membrane side

Sarnabar® Tube Perimeter Securement



All flashings, terminations and penetrations wider than
500 mm must be secured mechanically using Sarnabar®.



SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.00.01 - Build-up - Sarnafast® Tube Spot Fastening System - Sarnabar® Tube Perimeter Securement

Sika General Detail. Template for translation.

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February 2019

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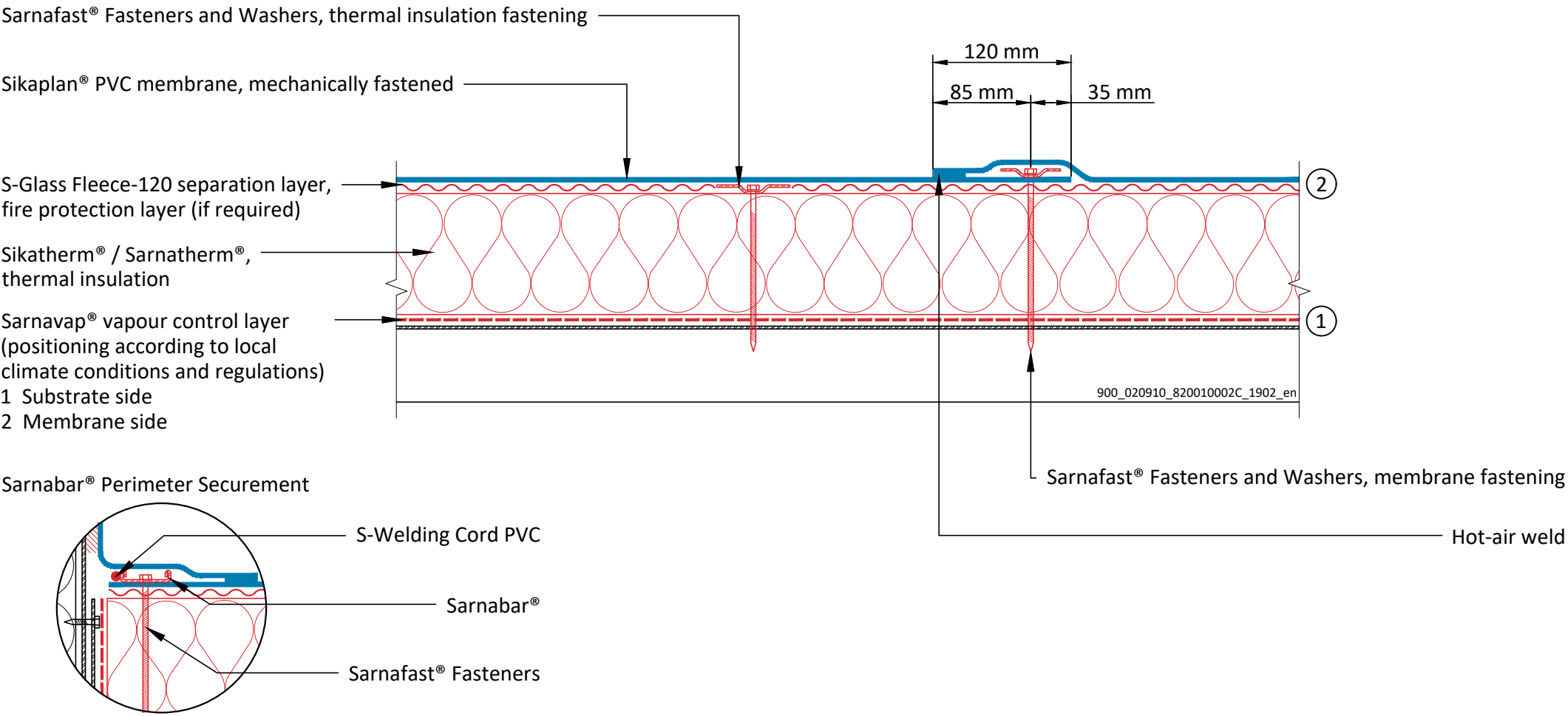
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All flashings, terminations and penetrations wider than 500 mm must be secured mechanically using Sarnabar®.

**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM
ON METAL DECK WITH THERMAL INSULATION**
SPL PVC - 001.00.02 - Build-up - Sarnafast® Spot Fastening System - Sarnabar® Perimeter Securement
Sika General Detail. Template for translation.

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Sarnafast® Fasteners and Tubes, thermal insulation fastening

Sikaplan® PVC membrane, mechanically fastened

S-Glass Fleece-120 separation layer,
fire protection layer (if required)

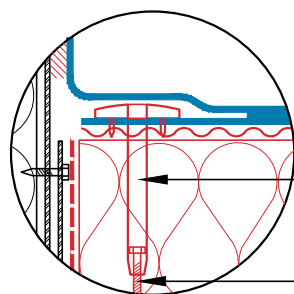
Sikatherm® / Sarnatherm®,
thermal insulation

Sarnavap® vapour control layer
(positioning according to local
climate conditions and regulations)

1 Substrate side

2 Membrane side

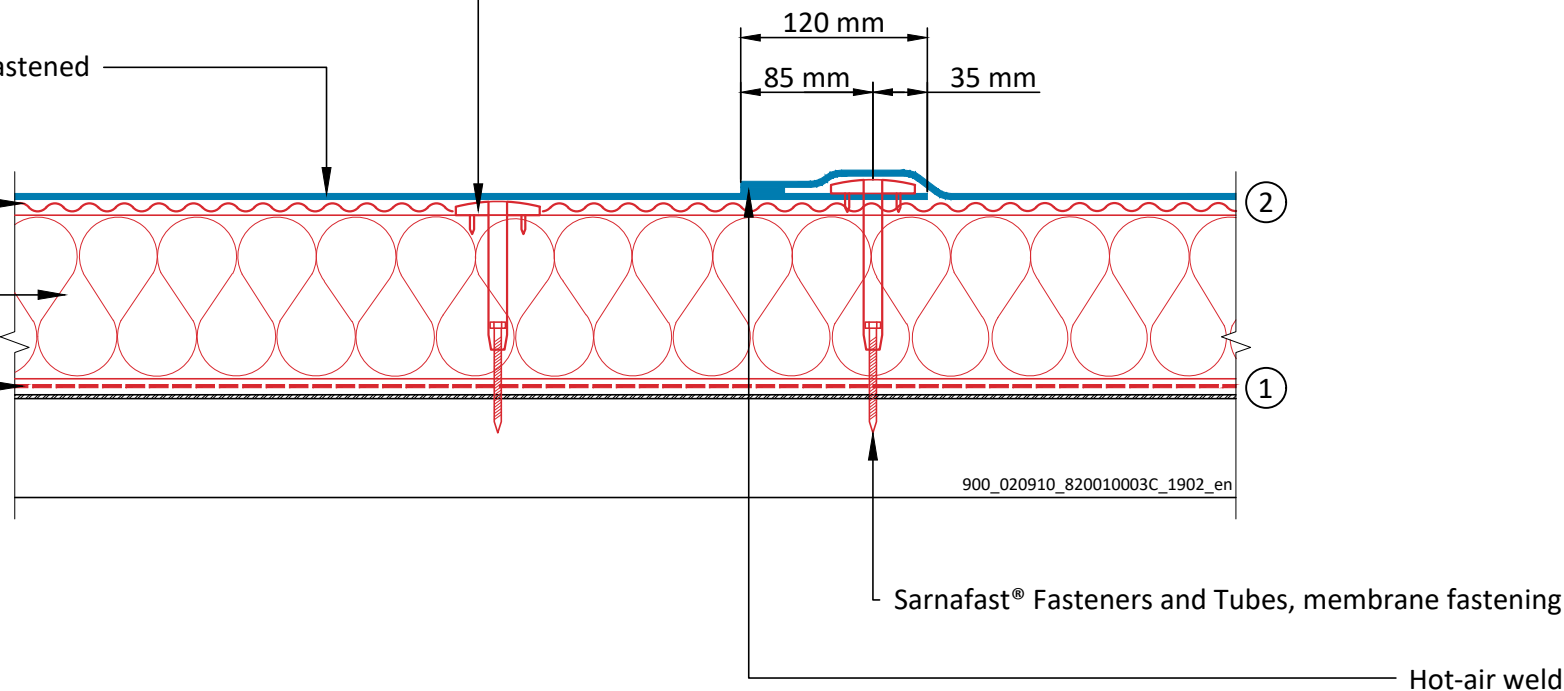
Sarnafast® Tube Perimeter Securement



Sarnafast® Tubes

Sarnafast® Fasteners

All flashings, terminations and penetrations wider than
500 mm must be secured mechanically using Sarnafast®.



Hot-air weld

SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.00.03 - Build-up - Sarnafast® Tube Spot Fastening System - Sarnafast® Tube Perimeter Securement

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Sarnafast® Fasteners and Washers, thermal insulation fastening

Sikaplan® PVC membrane, mechanically fastened

S-Glass Fleece-120 separation layer,
fire protection layer (if required)

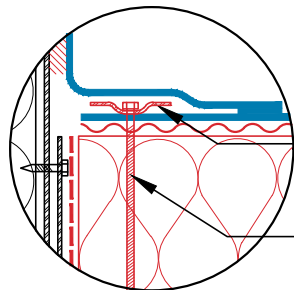
Sikatherm® / Sarnatherm®,
thermal insulation

Sarnavap® vapour control layer
(positioning according to local
climate conditions and regulations)

1 Substrate side

2 Membrane side

Sarnafast® Perimeter Securement



Sarnafast® Washers

Sarnafast® Fasteners

All flashings, terminations and penetrations wider than
500 mm must be secured mechanically using Sarnafast®.

120 mm
85 mm 35 mm

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Sarnafast® Fasteners and Washers, membrane fastening

Hot-air weld

SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.00.04 - Build-up - Sarnafast® Spot Fastening System - Sarnafast® Perimeter Securement

Sika General Detail. Template for translation.

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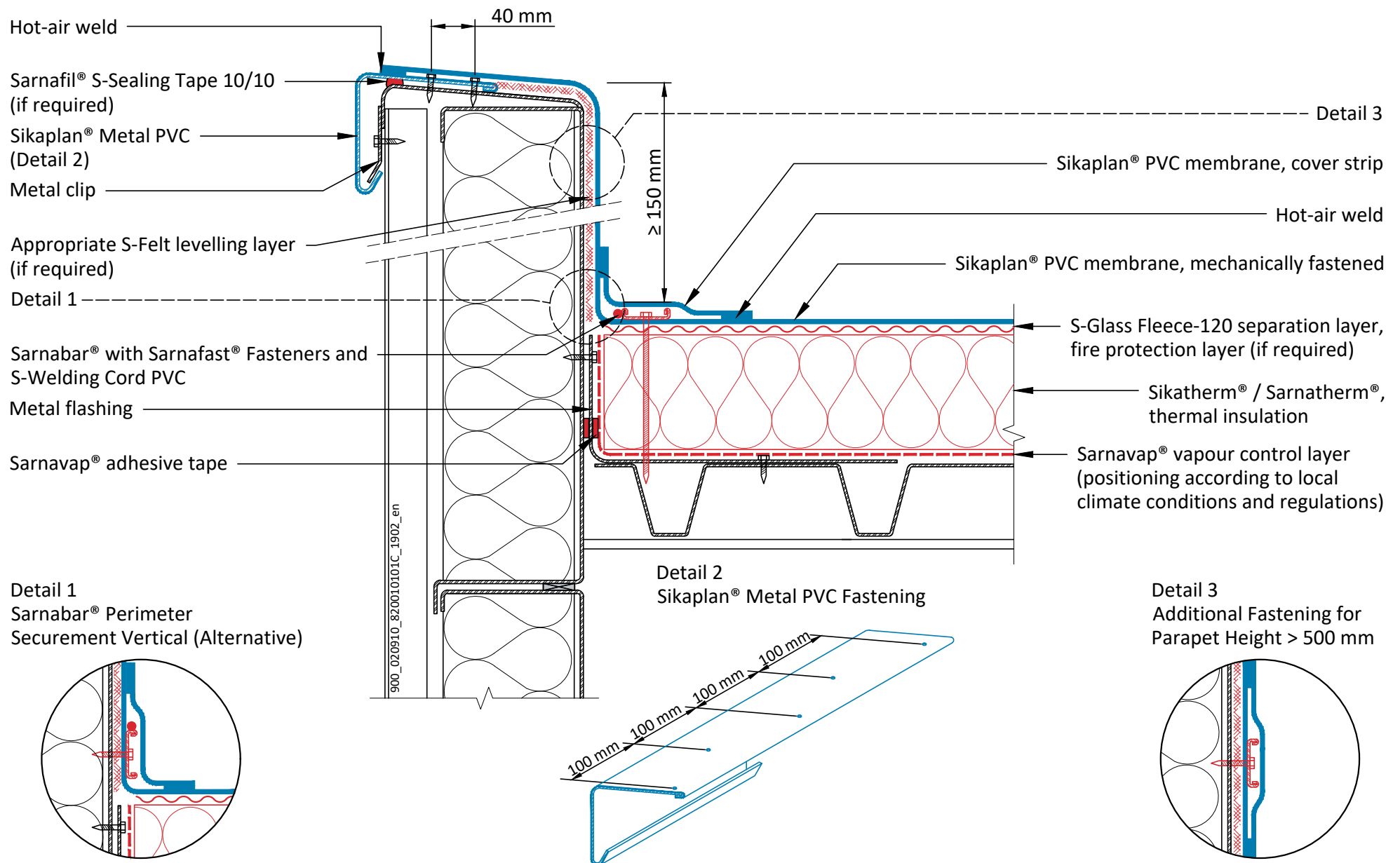
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.01.01 - Parapet - Sikaplan® Metal PVC - Mechanically Fastened on Metal Parapet Element

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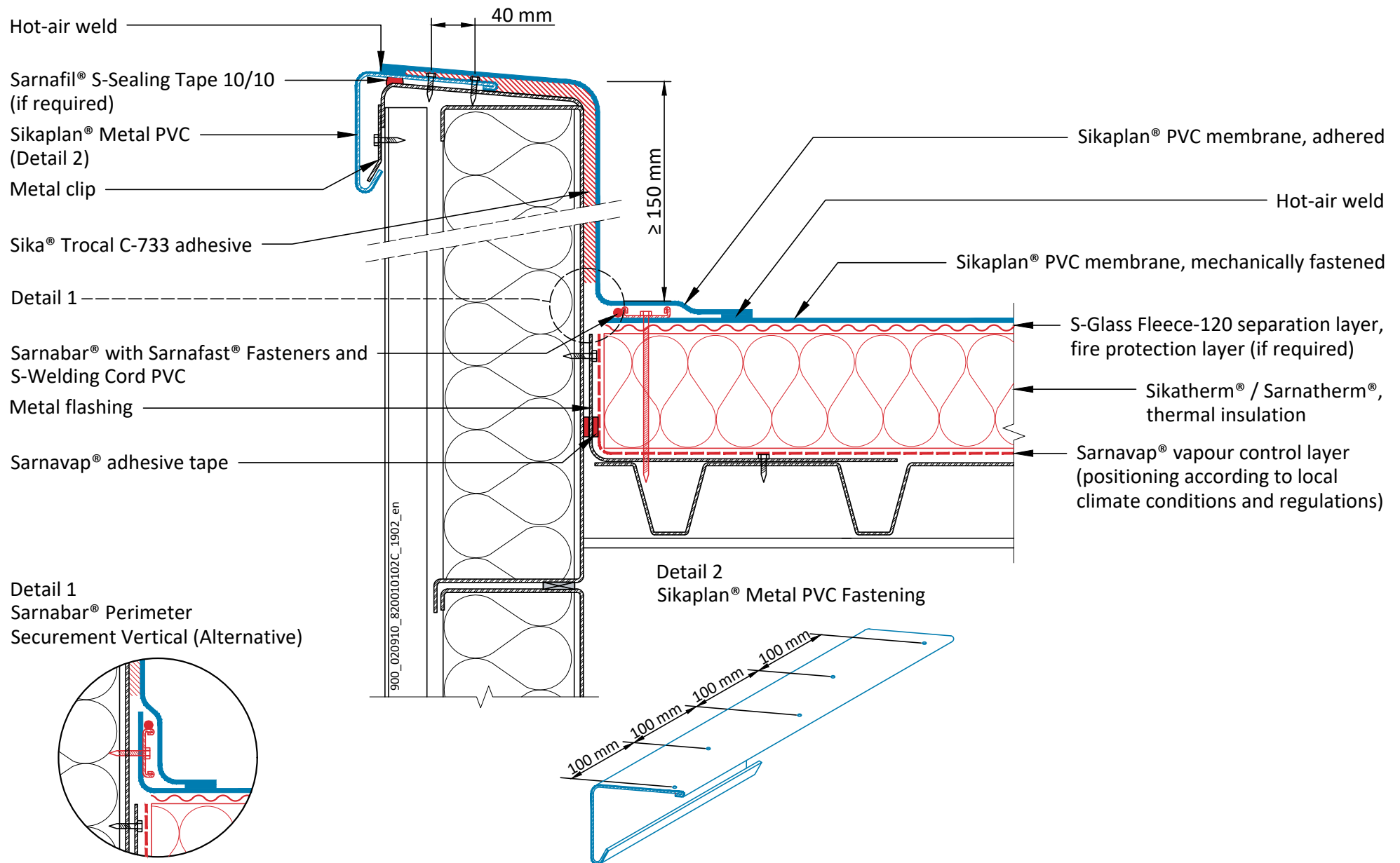
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ON METAL DECK WITH THERMAL INSULATION**

SPL PVC - 001.01.02 - Parapet - Sikaplan® Metal PVC - Adhered on Metal Parapet Element

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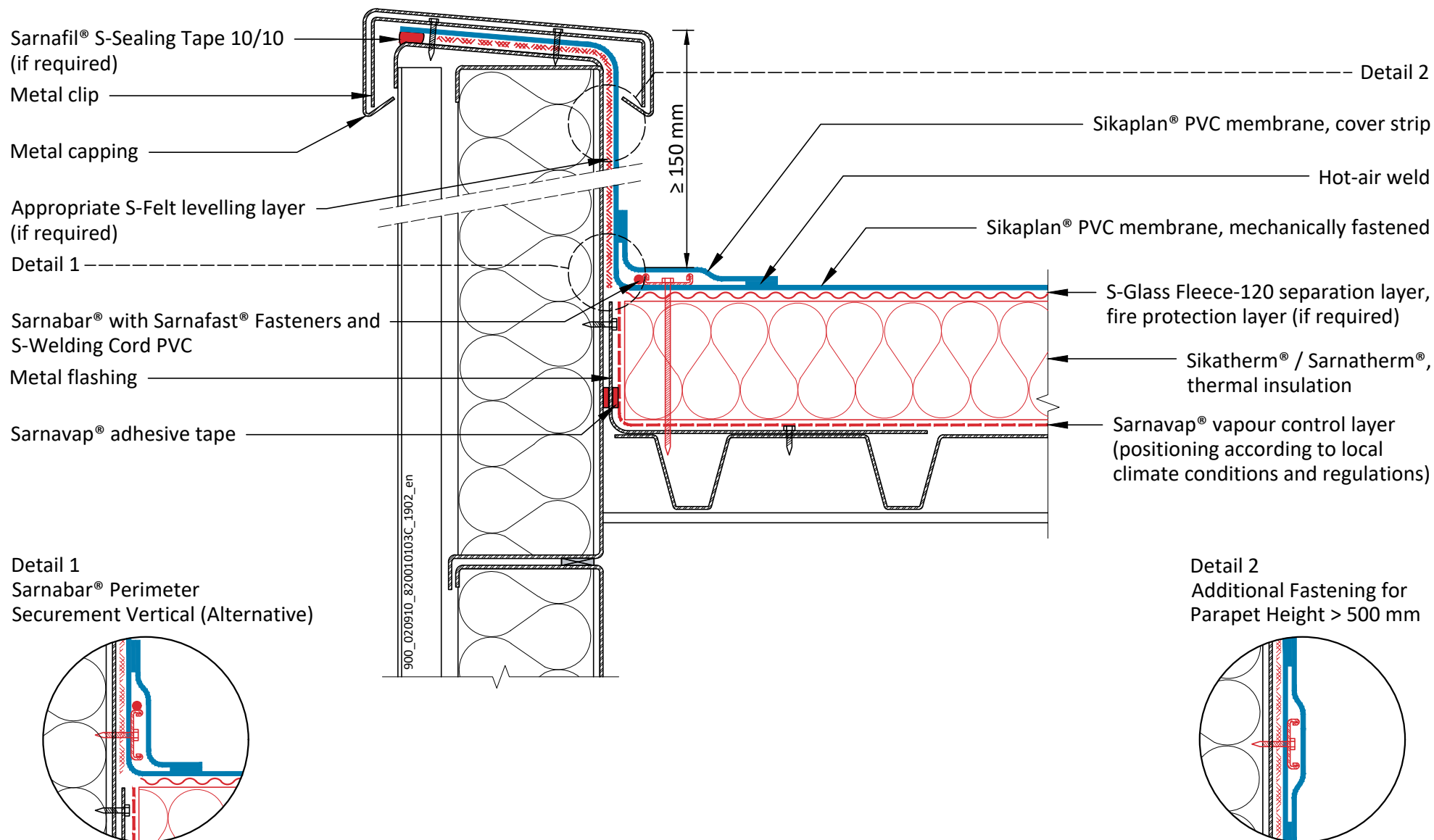
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.01.03 - Parapet - Metal Capping - Mechanically Fastened on Metal Parapet Element

Sika General Detail. Template for translation.

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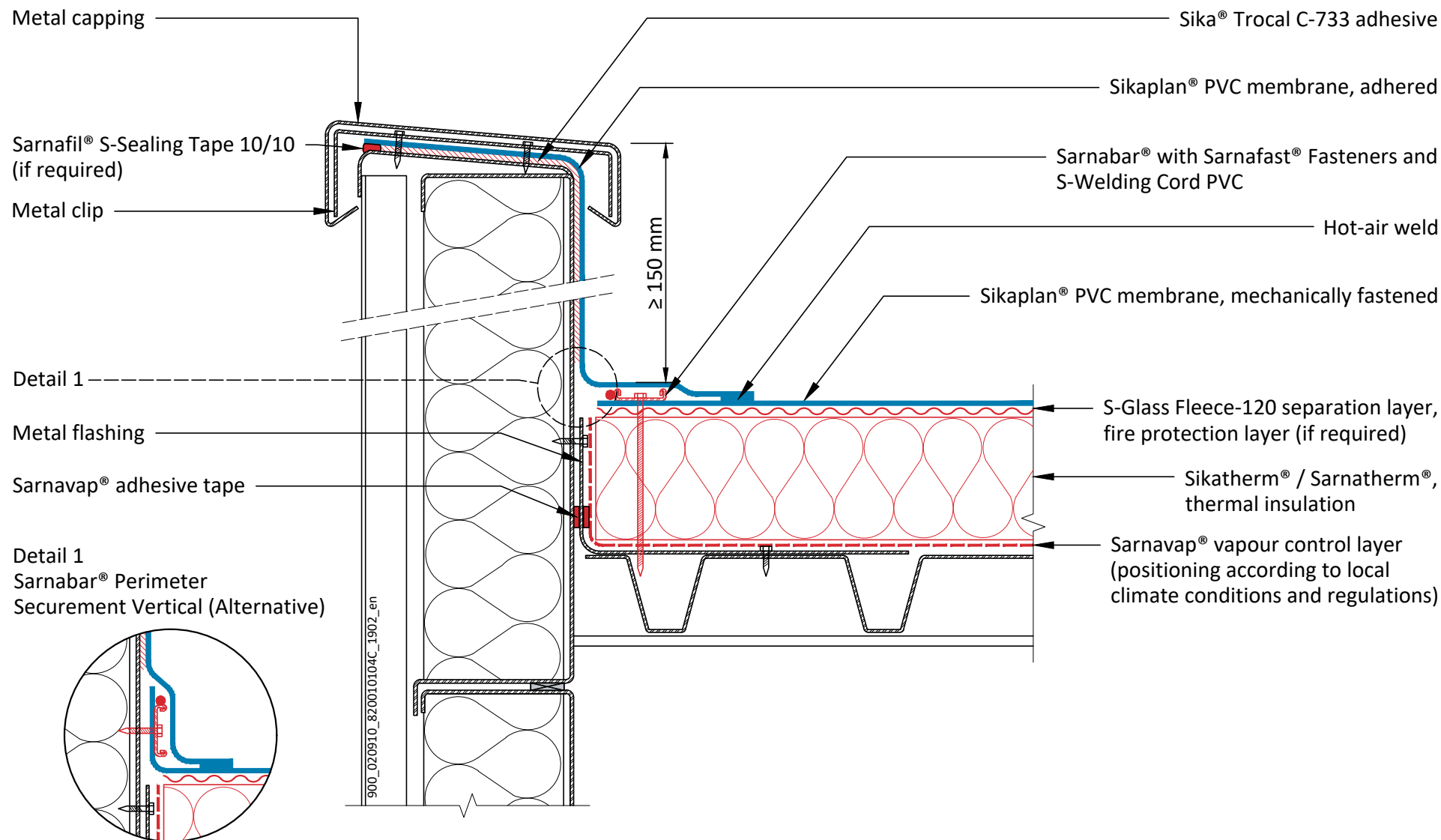
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.01.04 - Parapet - Metal Capping - Adhered on Metal Parapet Element

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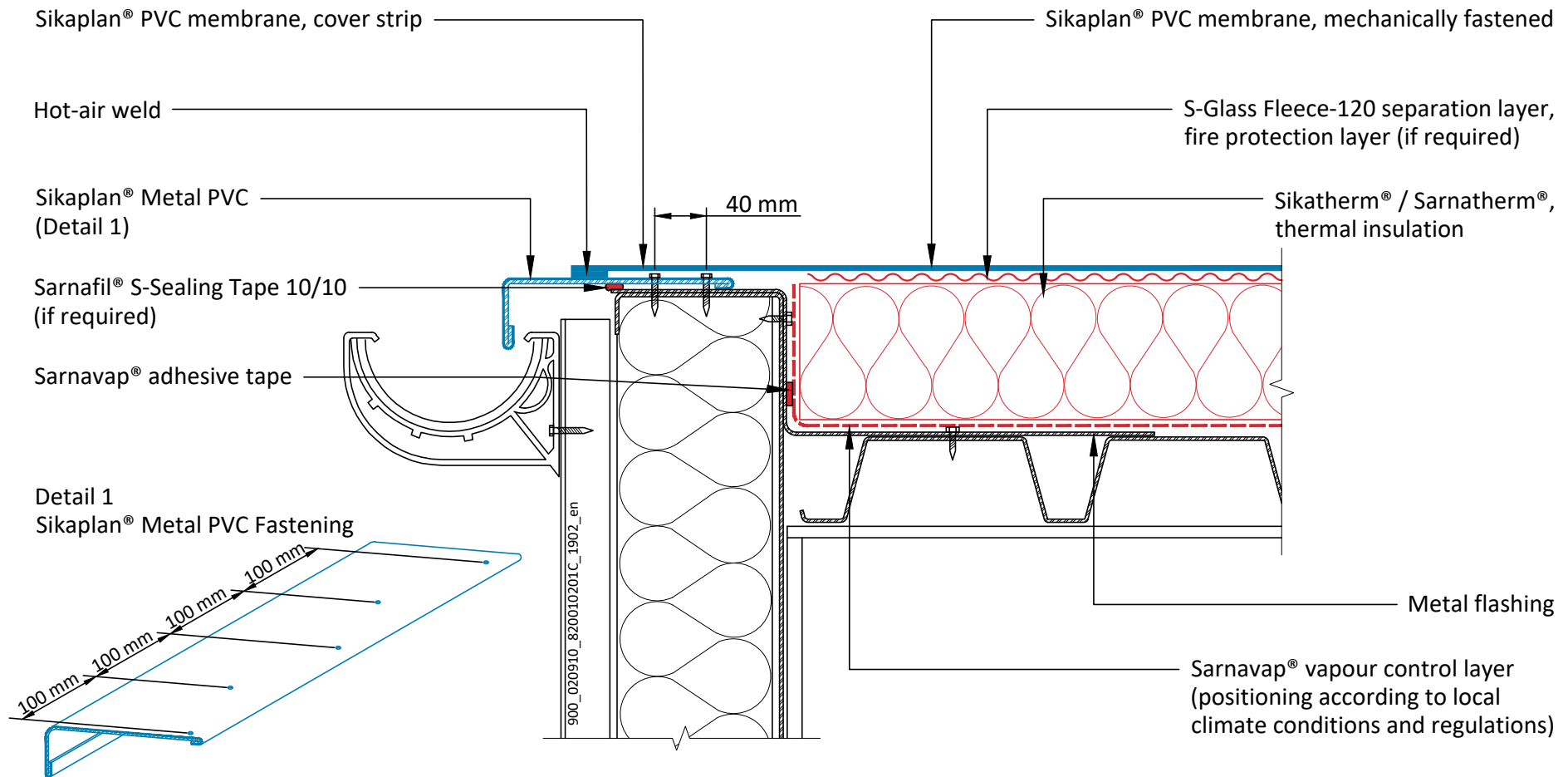
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SPL PVC - 001.02.01 - Roof Edge Termination with Gutter

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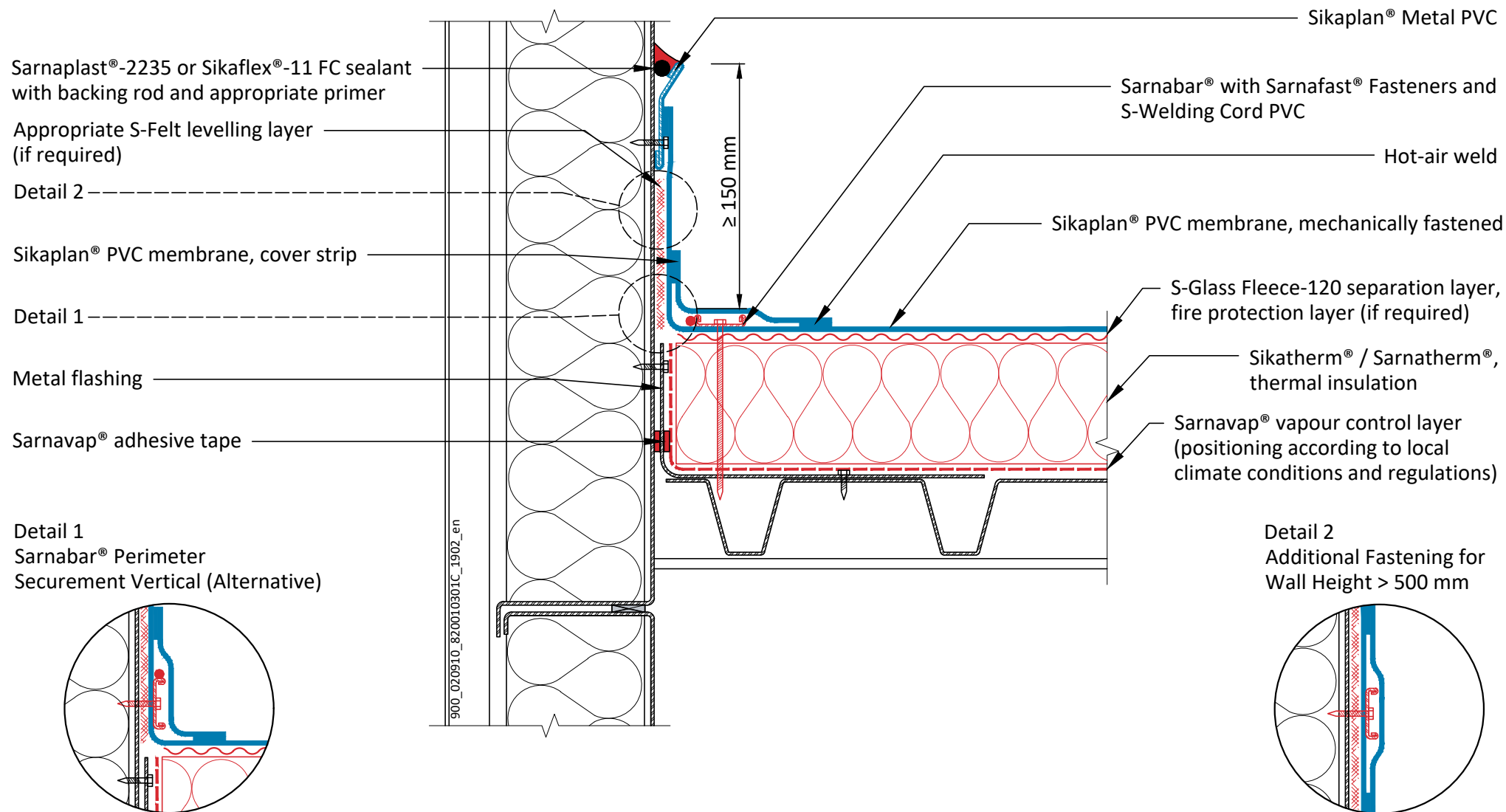
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SPL PVC - 001.03.01 - Upstand - Sikaplan® Metal PVC - Mechanically Fastened on Metal Wall Element

Sika General Detail. Template for translation.

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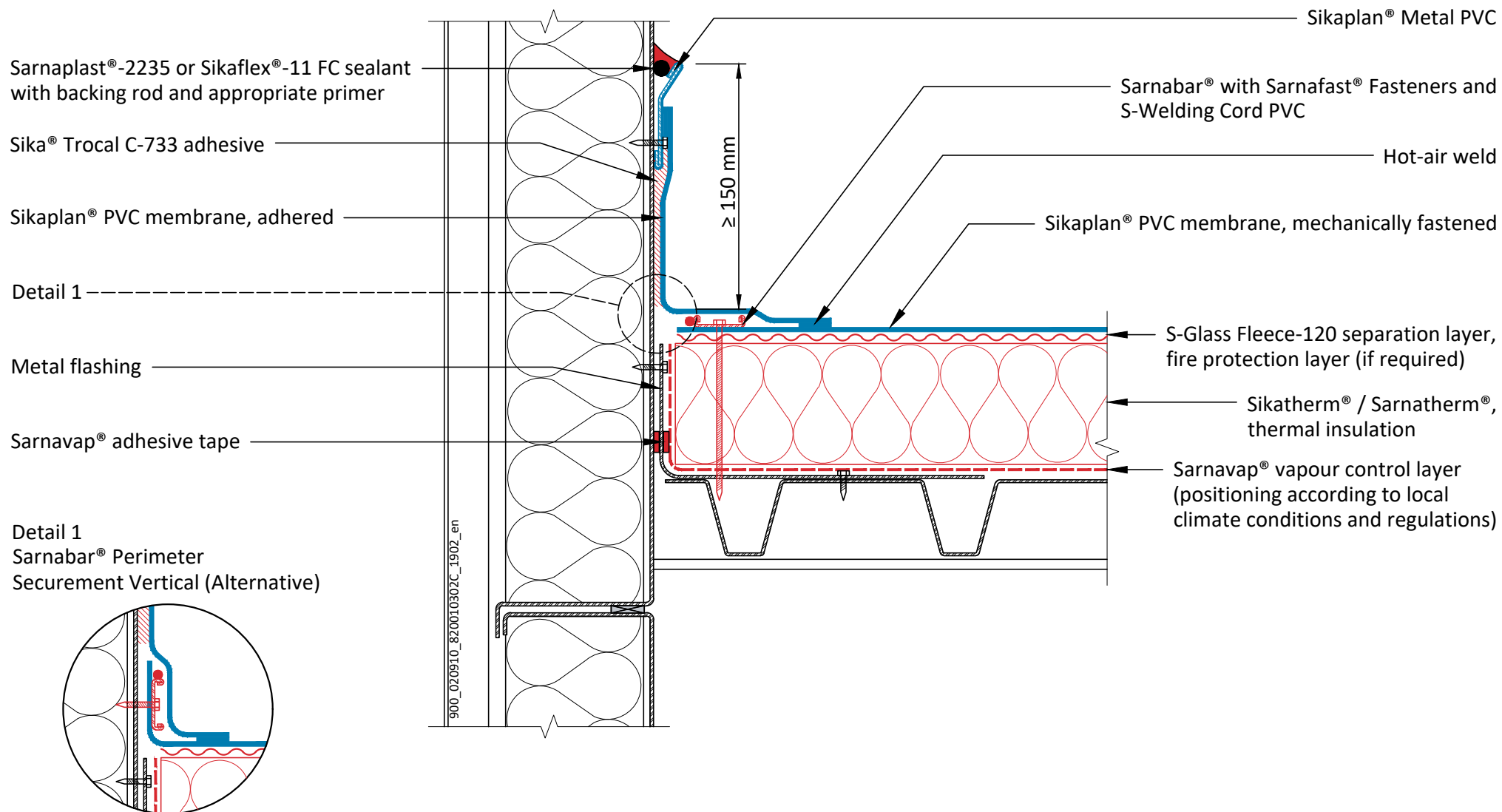
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SPL PVC - 001.03.02 - Upstand - Sikaplan® Metal PVC - Adhered on Metal Wall Element

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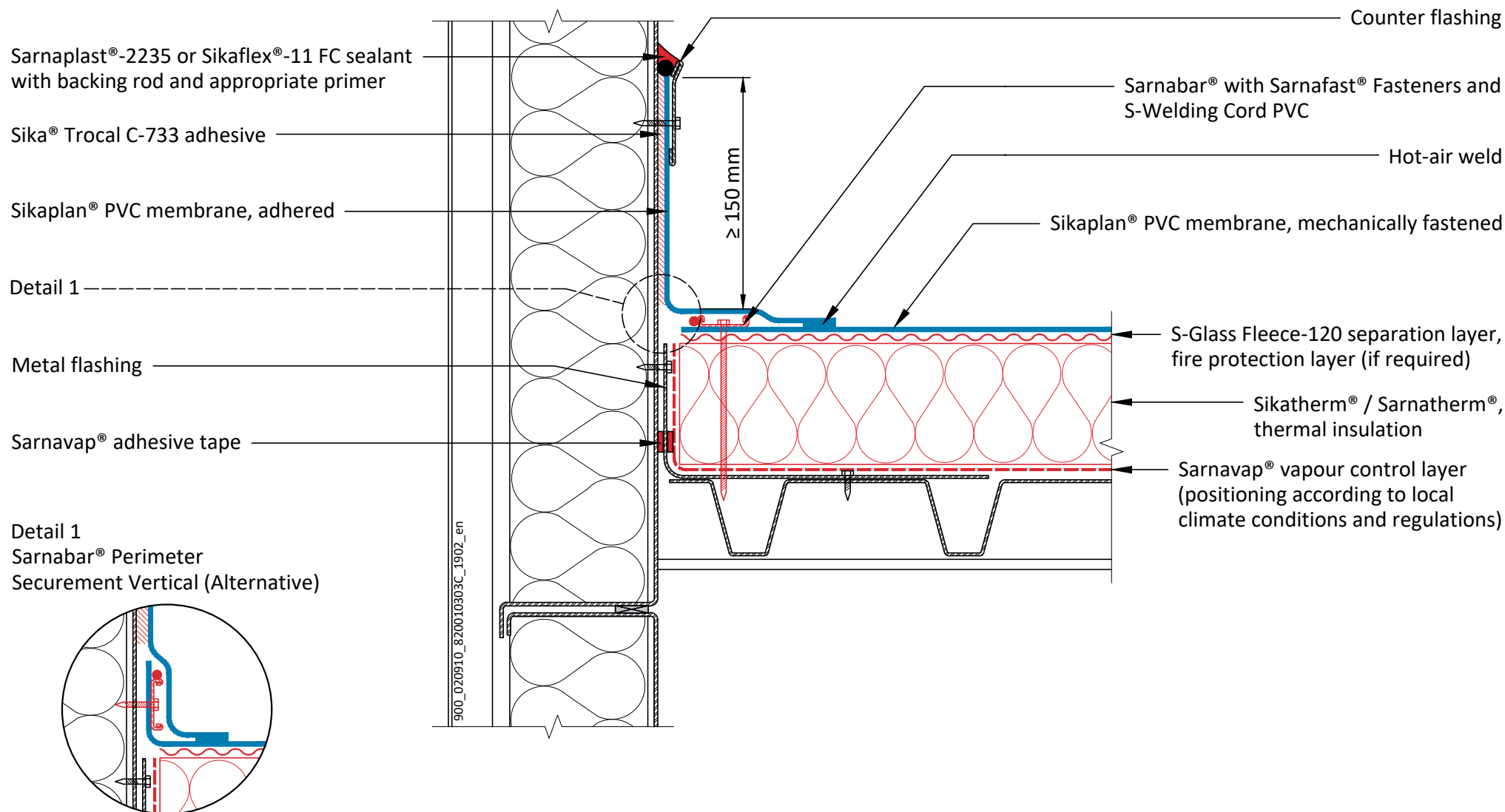
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SPL PVC - 001.03.03 - Upstand - Counter Flashing - Adhered on Metal Wall Element

Sika General Detail. Template for translation.

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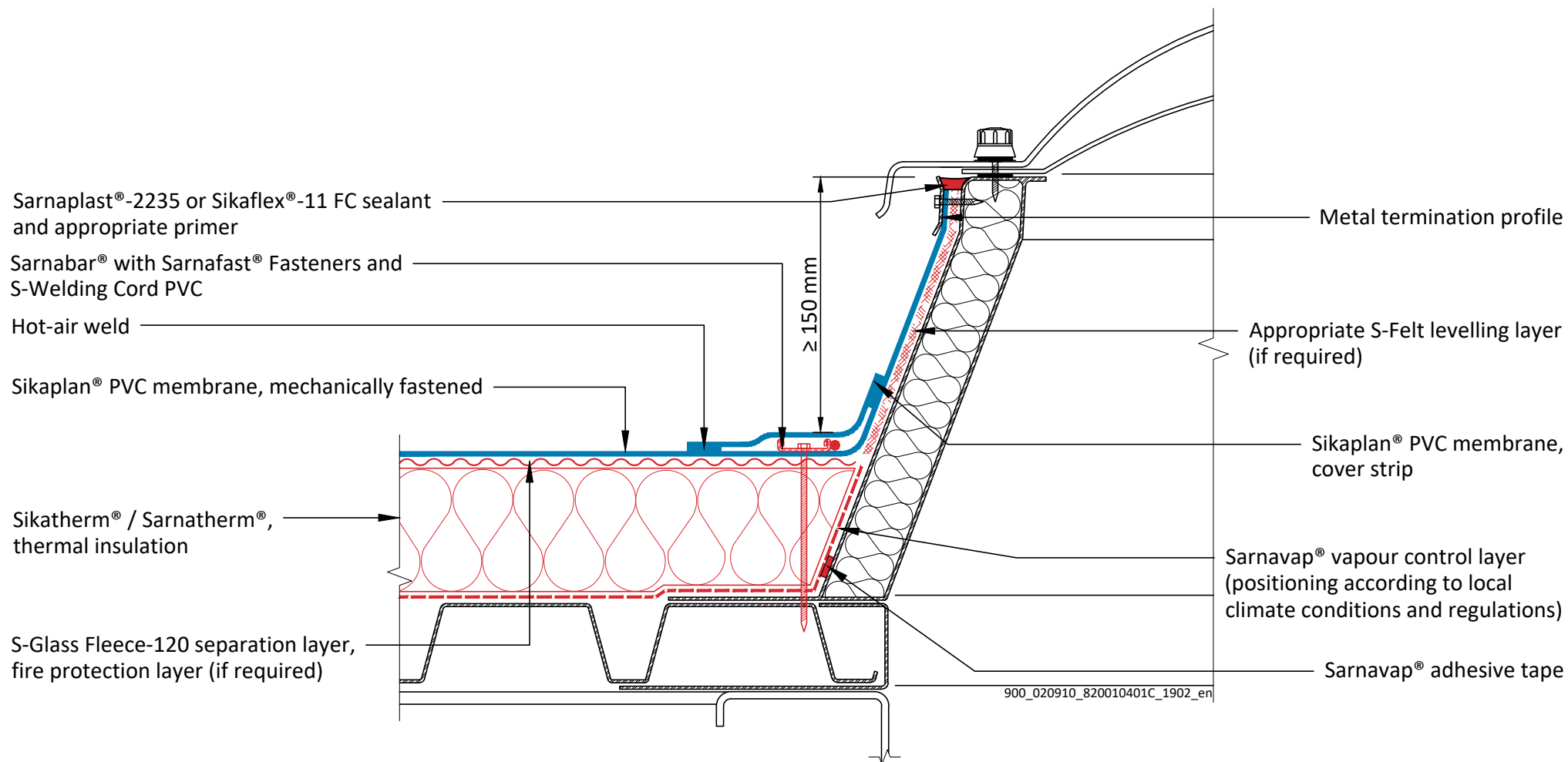
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.04.01 - Skylight - Sealed - Mechanically Fastened on Skylight System

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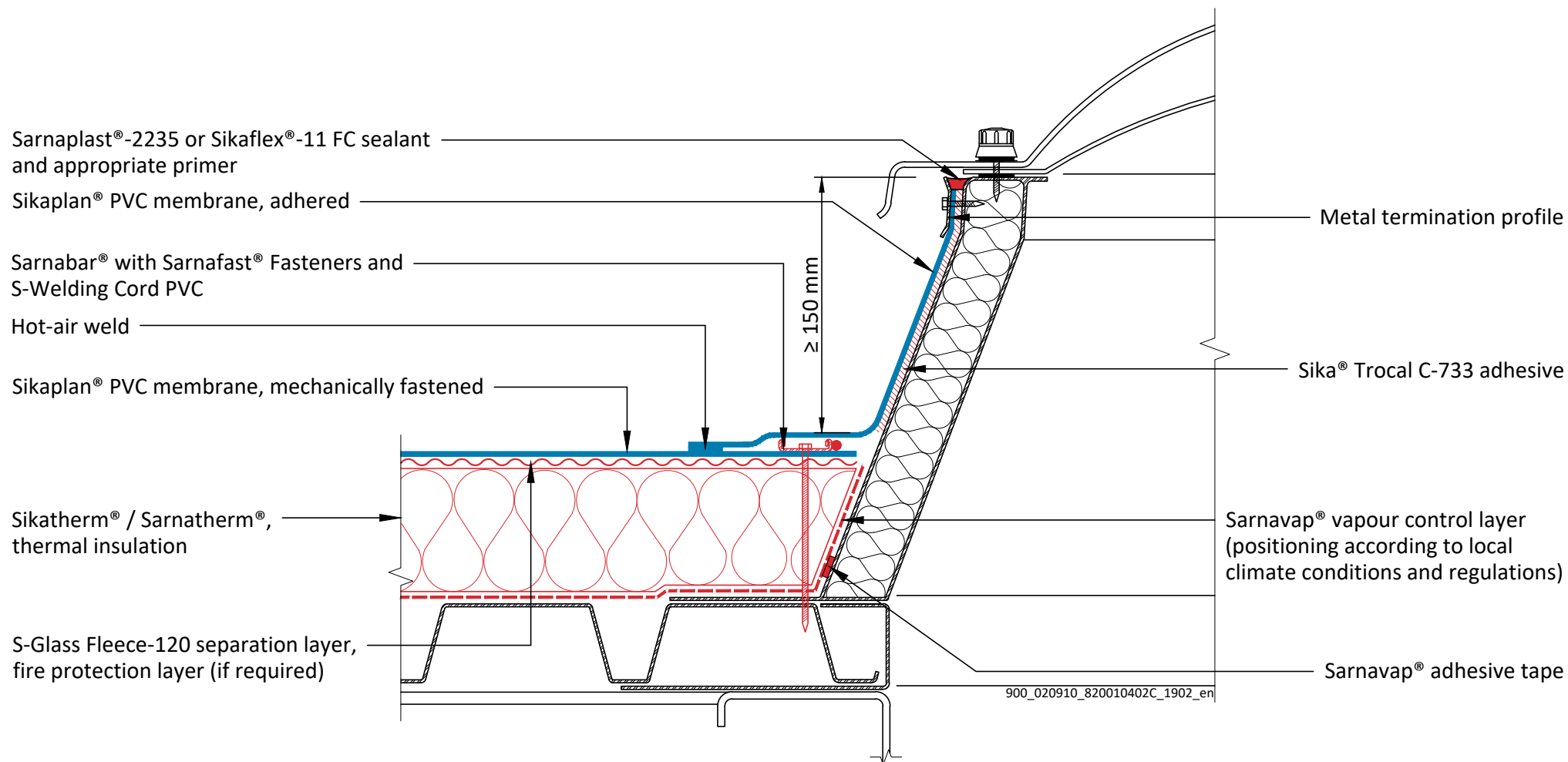
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.04.02 - Skylight - Sealed - Adhered on Skylight System

Sika General Detail. Template for translation.

900_020910_820010402C_1902_en
February 2019

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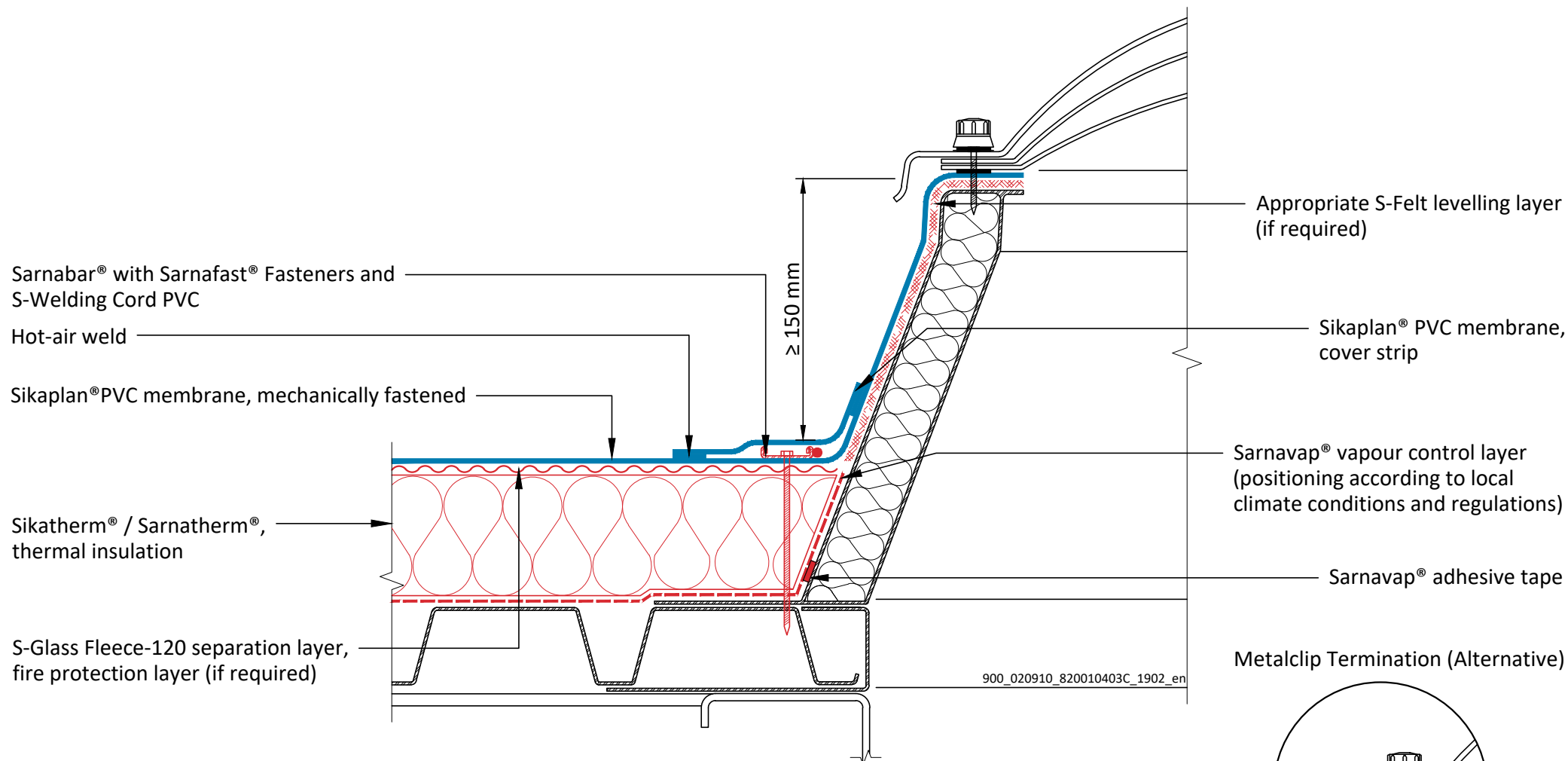
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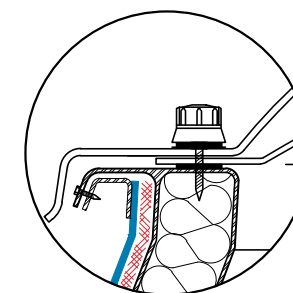


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Metalclip Termination (Alternative)



SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.04.03 - Skylight - Clamped - Mechanically Fastened on Skylight System

Sika General Detail. Template for translation.

900_020910_820010403C_1902_en
February 2019

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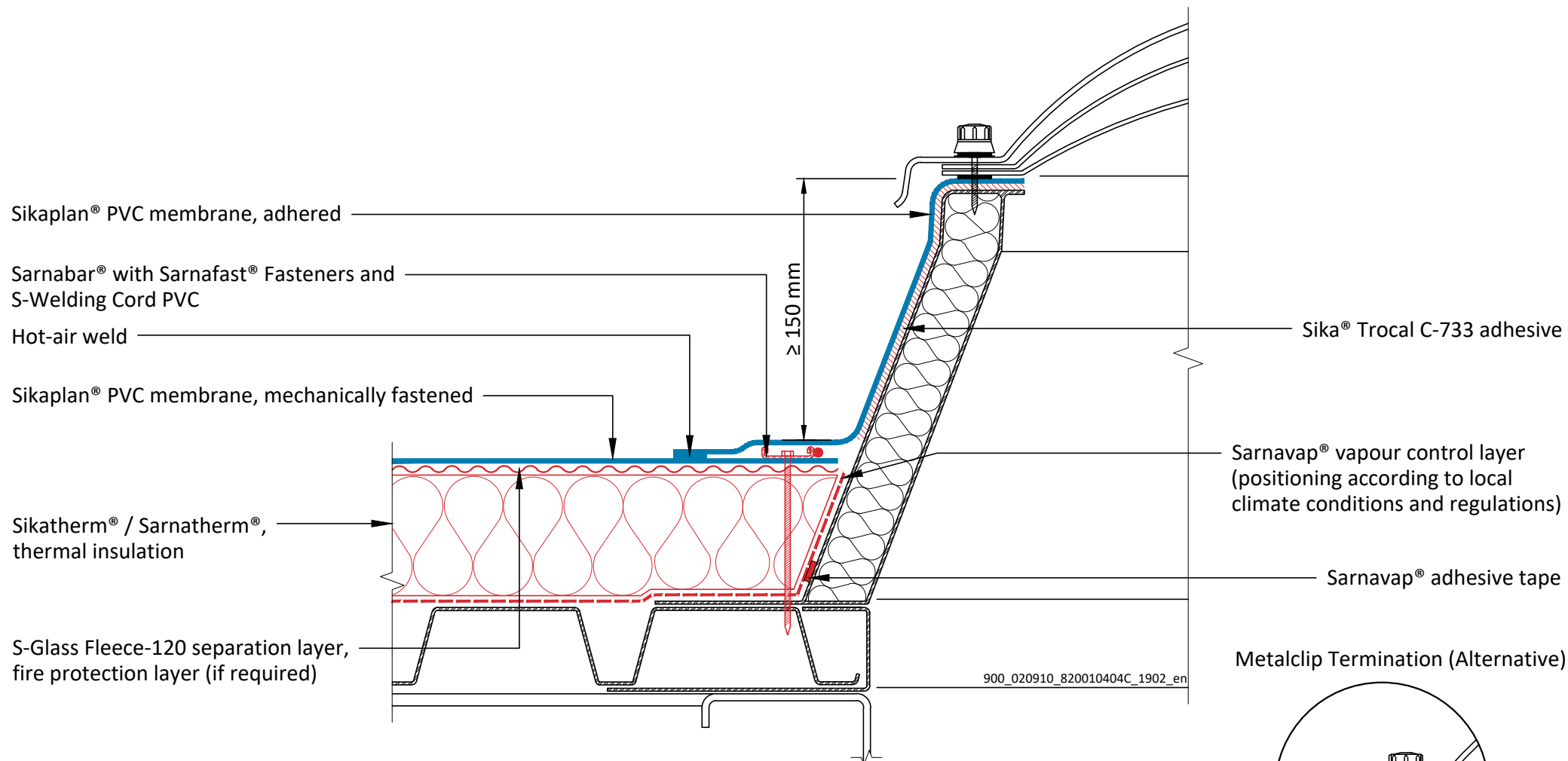
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.04.04 - Skylight - Clamped - Adhered on Skylight System

Sika General Detail. Template for translation.

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February 2019

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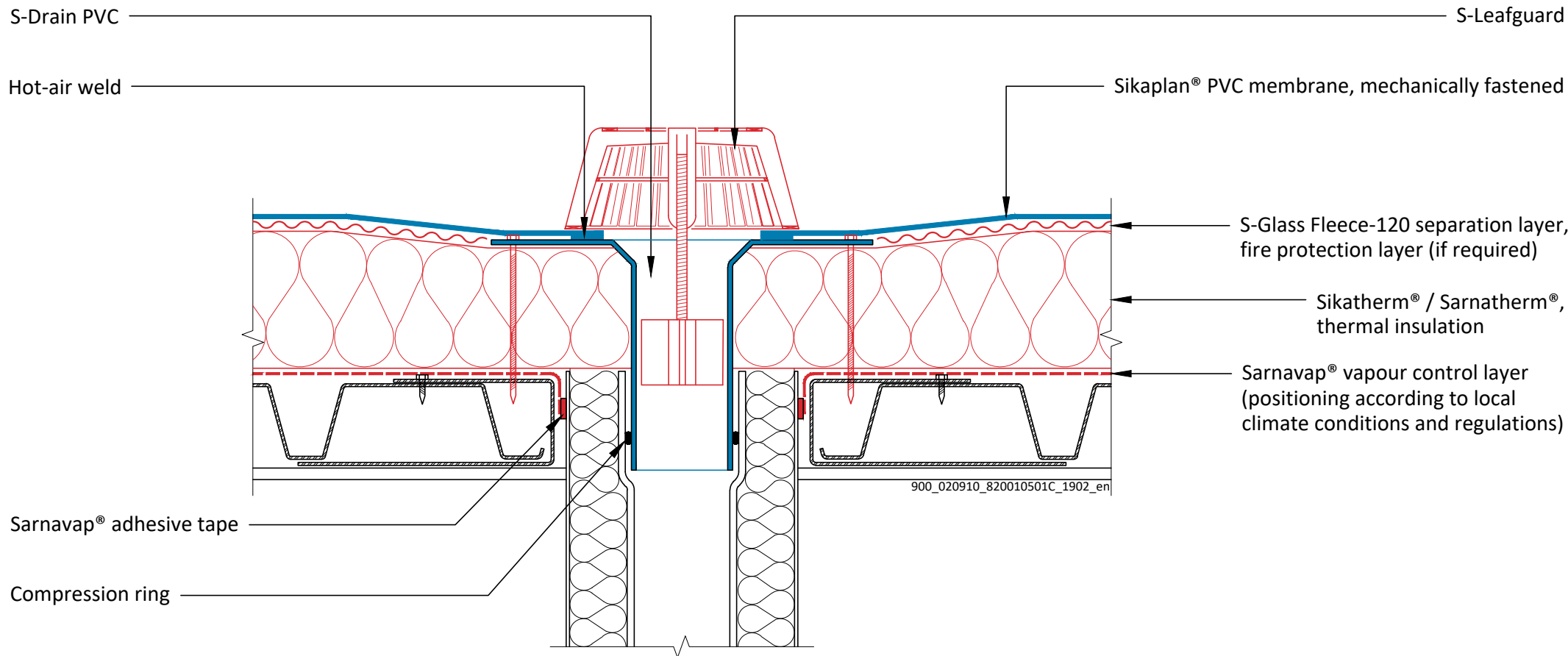
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.05.01 - Roof Drain (Outlet)

Sika General Detail. Template for translation.

900_020910_820010501C_1902_en
February 2019

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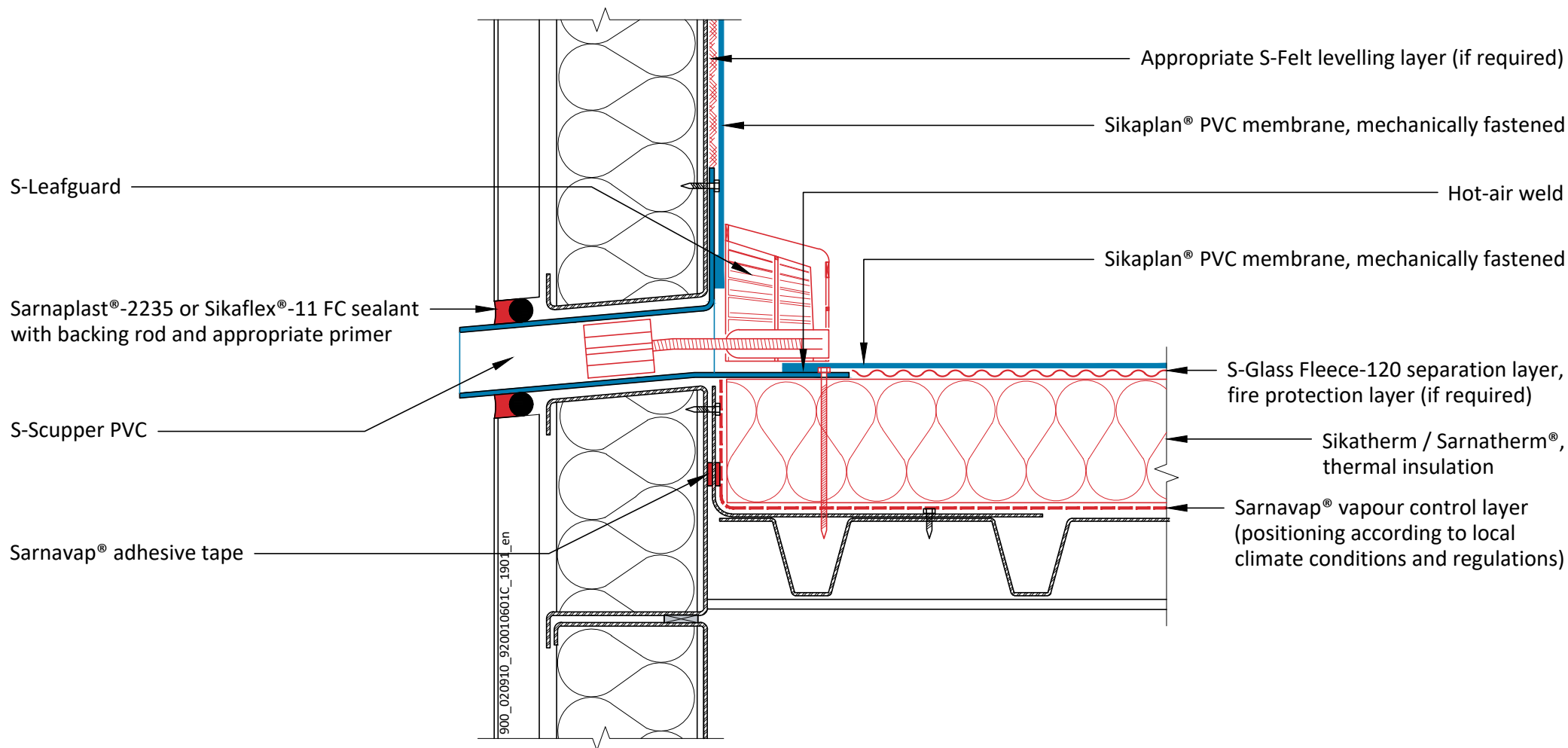
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.06.01 - Scupper - Mechanically Fastened on Metal Element

Sika General Detail. Template for translation.

900_020910_820010601C_1902_en
February 2019

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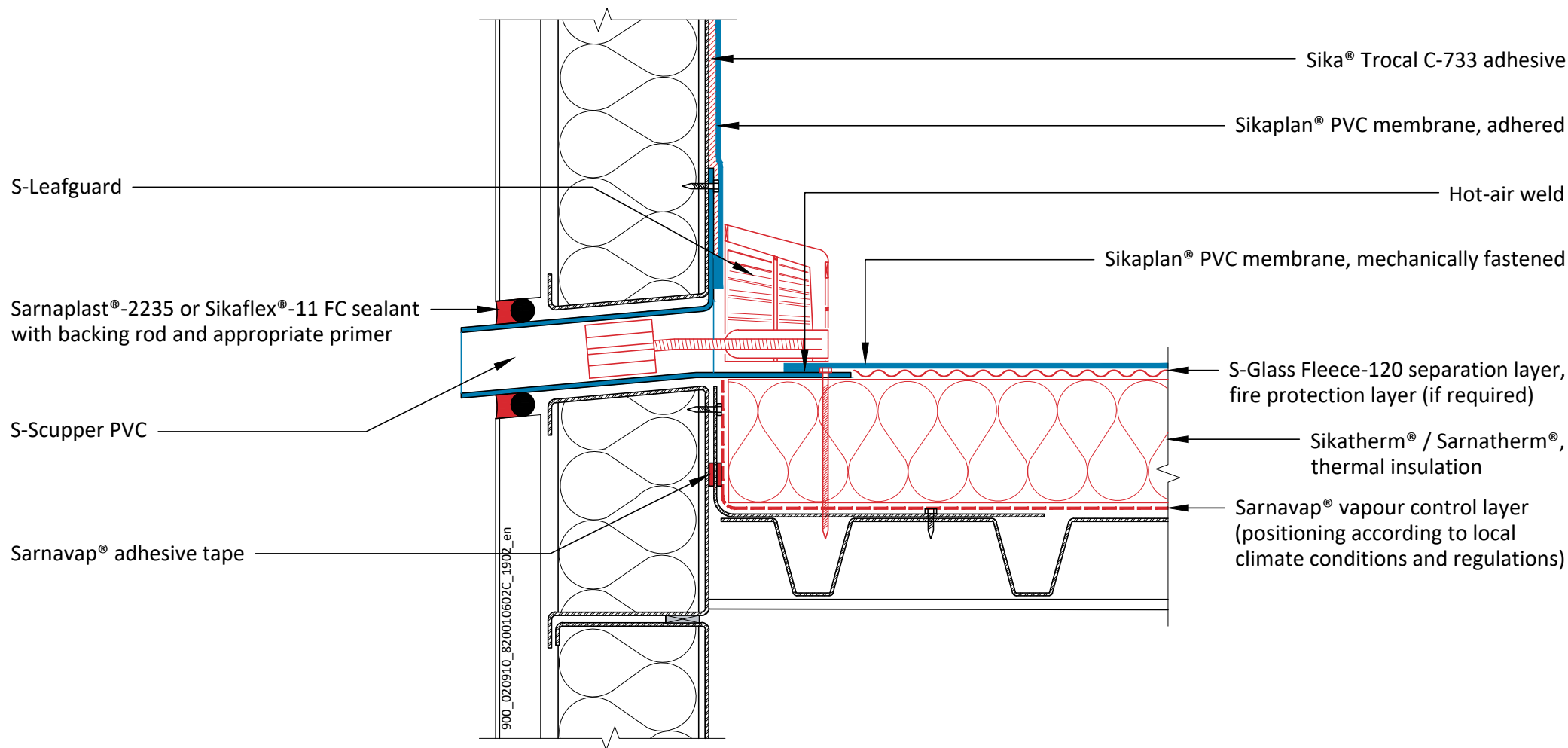
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.06.02 - Scupper - Adhered on Metal Element

Sika General Detail. Template for translation.

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February 2019

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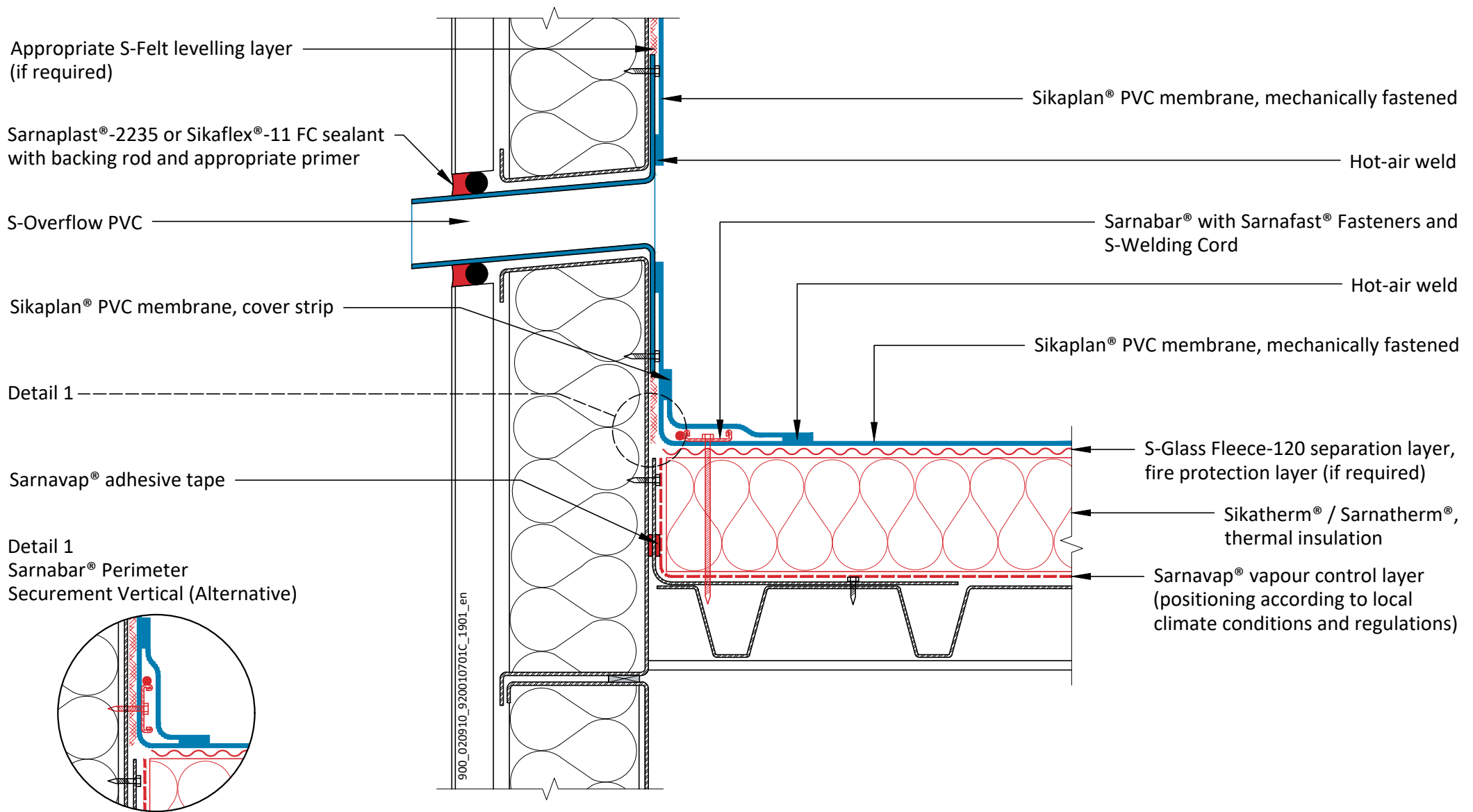
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.07.01 - Overflow - Mechanically Fastened on Metal Element

Sika General Detail. Template for translation.

900_020910_820010701C_1902_en
February 2019

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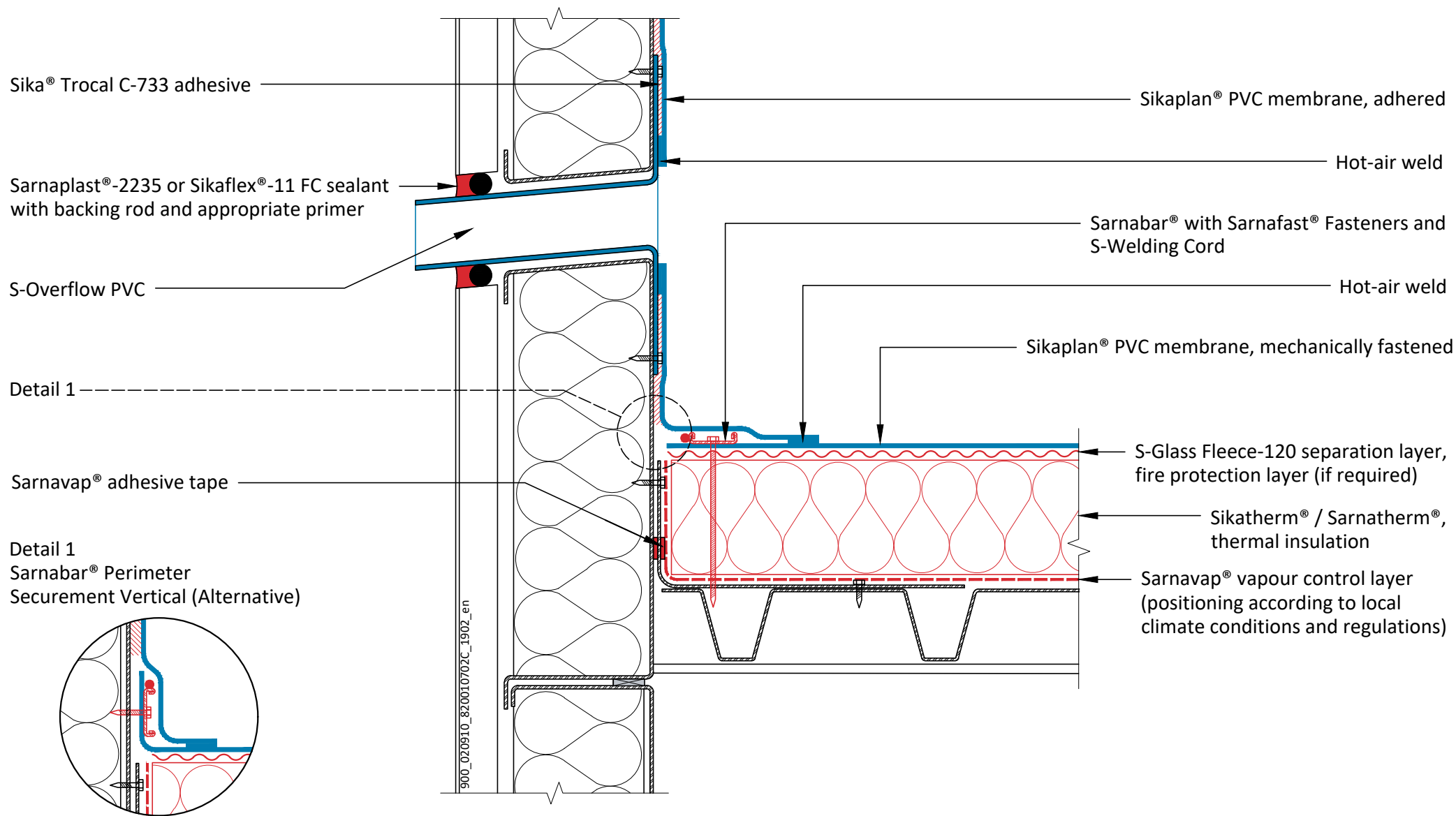
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM
ON METAL DECK WITH THERMAL INSULATION**

SPL PVC - 001.07.02 - Overflow - Adhered on Metal Element

Sika General Detail. Template for translation.

900_020910_820010702C_1902_en
February 2019

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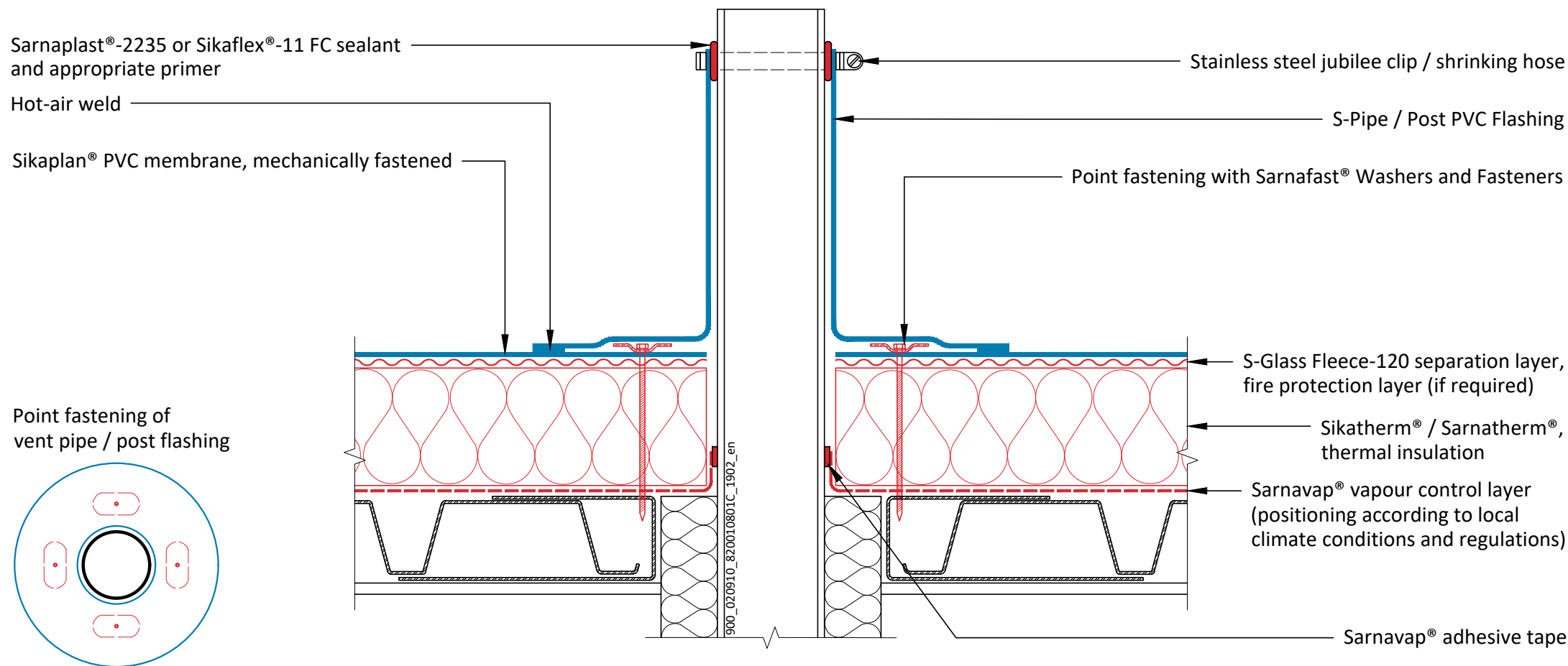
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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.08.01 - Vent Pipe / Post

Sika General Detail. Template for translation.

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February 2019

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Sikaplan® PVC membrane, mechanically fastened

S-Glass Fleece-120 separation layer,
fire protection layer (if required)

Sikatherm® / Sarnatherm®,
thermal insulation

Sarnavap® vapour control layer
(positioning according to local
climate conditions and regulations)

Sikaplan® PVC membrane, mechanically fastened

Hot-air weld

Spot fastening with Sarnafast®
Washers and Fasteners

Metal flashing

Sikaplan® PVC membrane, cover strip

Sarnabar® with Sarnafast® Fasteners

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SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.09.01 - Gutter

Sika General Detail. Template for translation.

900_020910_820010901C_1902_en
February 2019

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Sarnabar® with Sarnafast® Fasteners and
S-Welding Cord PVC

Hot-air weld

Sikaplan® PVC membrane, mechanically fastened

S-Glass Fleece-120 separation layer,
fire protection layer (if required)

Sikatherm® / Sarnatherm®,
thermal insulation

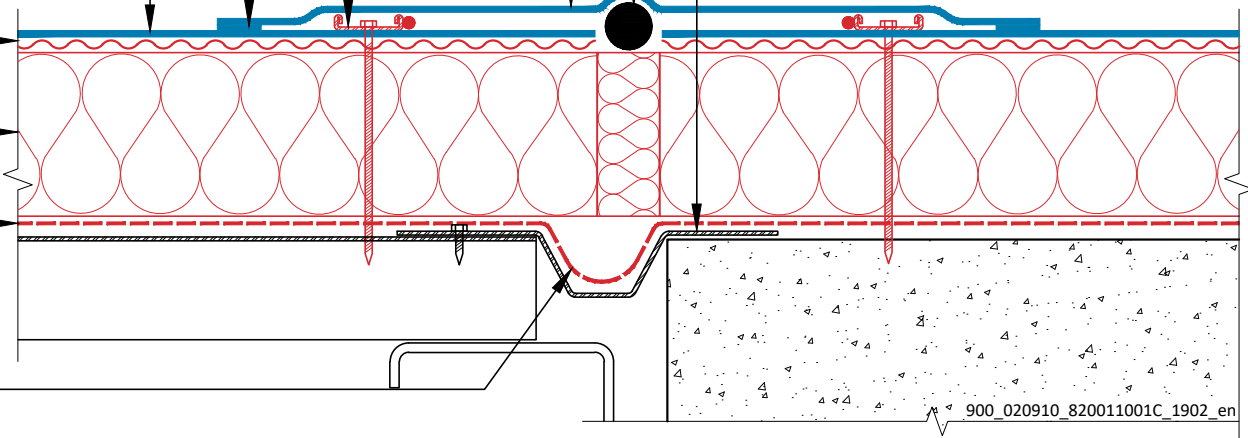
Sarnavap® vapour control layer
(positioning according to local
climate conditions and regulations)

Vapour control layer with
expansion loop

Sikaplan® PVC membrane, cover strip

Expanded polyethylene rod

Metal flashing



SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM ON METAL DECK WITH THERMAL INSULATION

SPL PVC - 001.10.01 - Movement Joint

Sika General Detail. Template for translation.

900_020910_820011001C_1902_en

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