



## **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
<b>SPL PVC -</b>	<b>Sikaplan® PVC</b>
SB T -	SikaBit® T

### Roofing Systems

<b>001.</b>	<b>Mechanically Fastened Roof System on Metal Deck with Thermal Insulation</b>
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

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

# 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

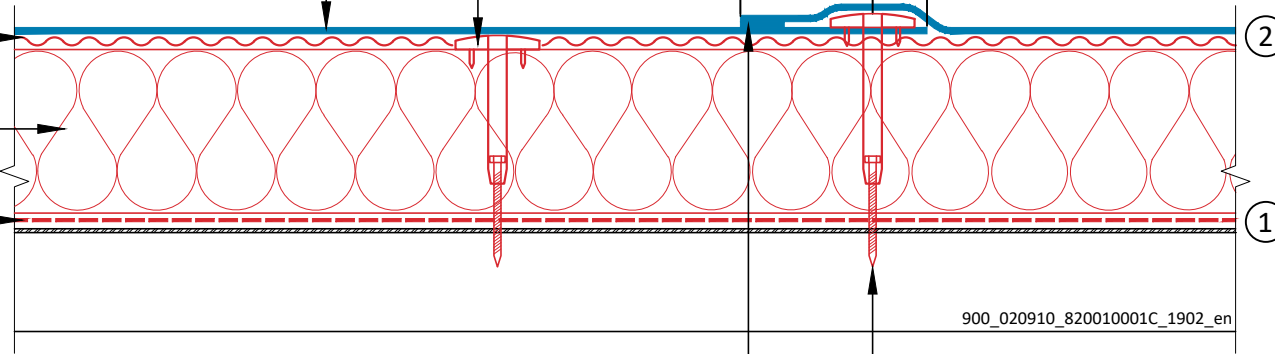
S-Glass Fleece-120 separation layer,  
fire protection layer (if required)

Sikatherm® / Sarnatherm®,  
thermal insulation

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

- 1 Substrate side
- 2 Membrane side

120 mm  
85 mm 35 mm

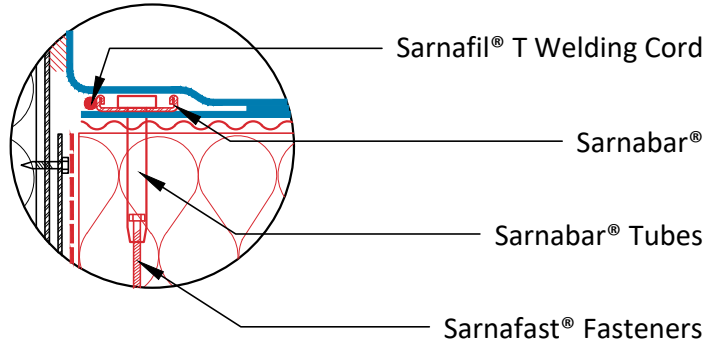


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Sarnafast® Fasteners and Tubes, membrane fastening

Hot-air weld

Sarnabar® Tube Perimeter Securement



Sarnafil® T Welding Cord

Sarnabar®

Sarnabar® Tubes

Sarnafast® Fasteners

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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The information contained herein and any other advice are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. The information only applies to the application(s) and product(s) expressly referred to herein and is based on laboratory tests which do not replace practical tests. In case of changes in the parameters of the application, such as changes in substrates etc., or in case of a different application, consult Sika's Technical Service prior to using Sika products. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sarnafast® Fasteners and Washers, thermal insulation fastening

Sikaplan® PVC membrane, mechanically fastened

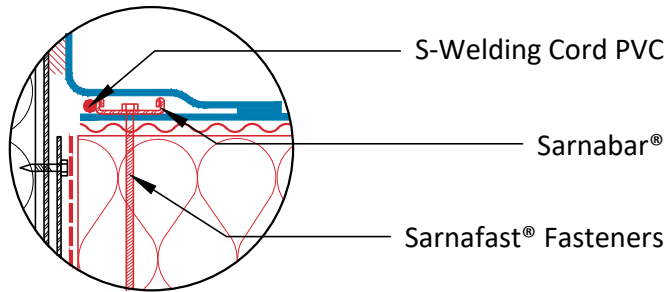
S-Glass Fleece-120 separation layer,  
fire protection layer (if required)

Sikatherm® / Sarnatherm®,  
thermal insulation

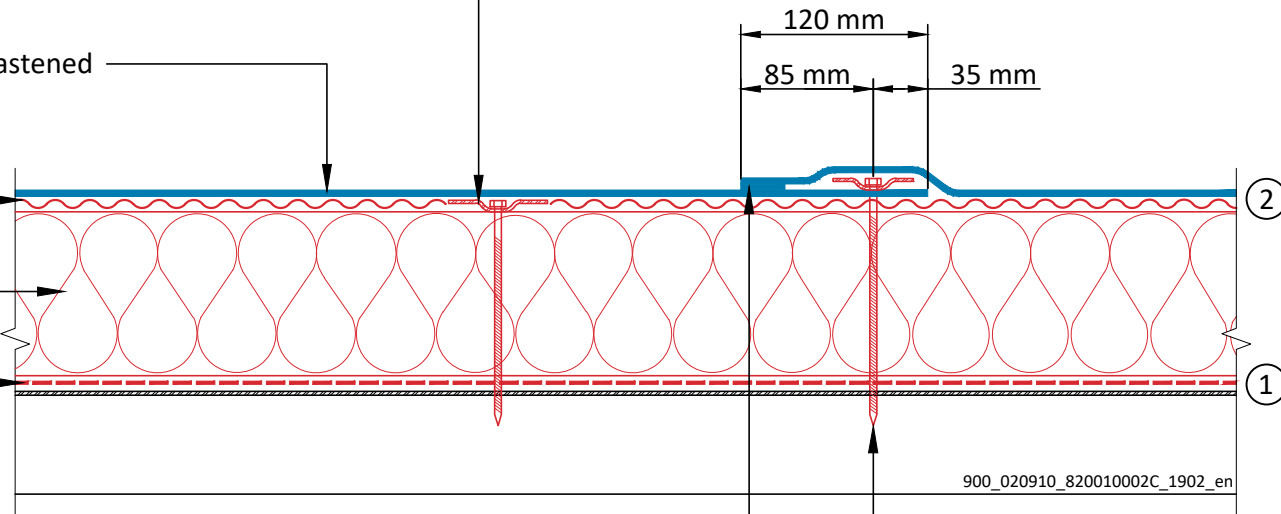
Sarnavap® vapour control layer  
(positioning according to local  
climate conditions and regulations)

1 Substrate side  
2 Membrane side

Sarnabar® Perimeter Securement



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



Sarnafast® Fasteners and Washers, membrane fastening

Hot-air weld

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

SPL PVC - 001.00.02 - Build-up - Sarnafast® Spot Fastening System - Sarnabar® Perimeter Securement

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Sarnafast® Fasteners and Tubes, thermal insulation fastening

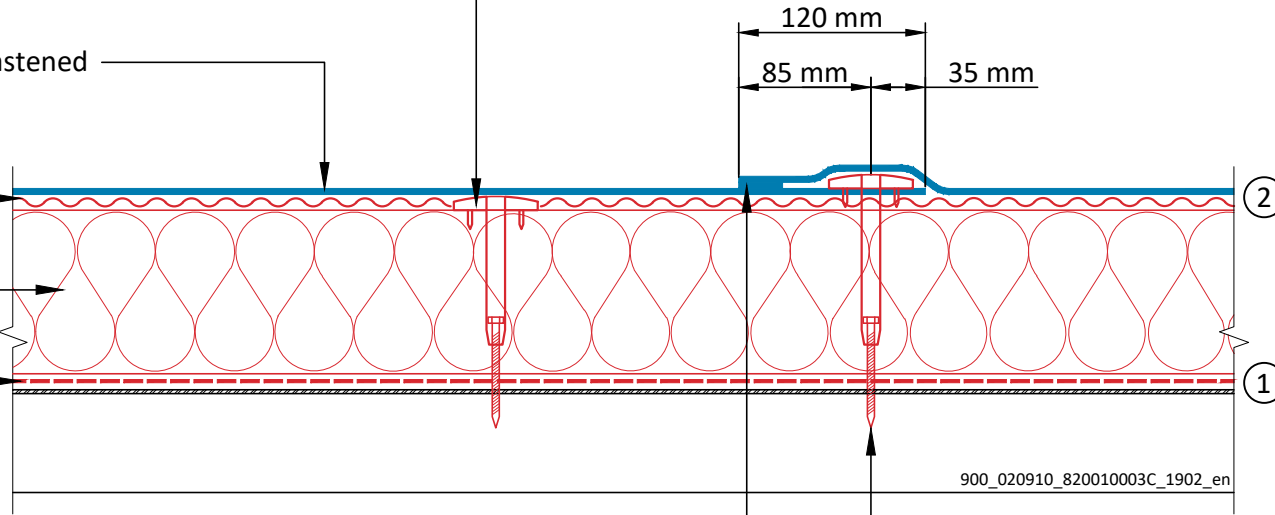
Sikaplan® PVC membrane, mechanically fastened

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

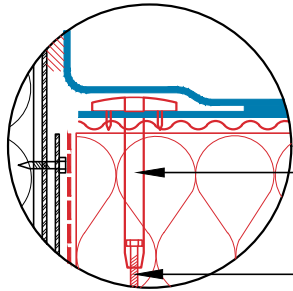


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Sarnafast® Fasteners and Tubes, membrane fastening

Hot-air weld

Sarnafast® Tube Perimeter Securement



Sarnafast® Tubes

Sarnafast® Fasteners

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

**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

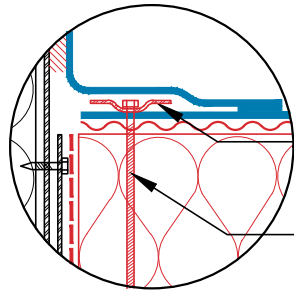
S-Glass Fleece-120 separation layer,  
fire protection layer (if required)

Sikatherm® / Sarnatherm®,  
thermal insulation

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

1 Substrate side  
2 Membrane side

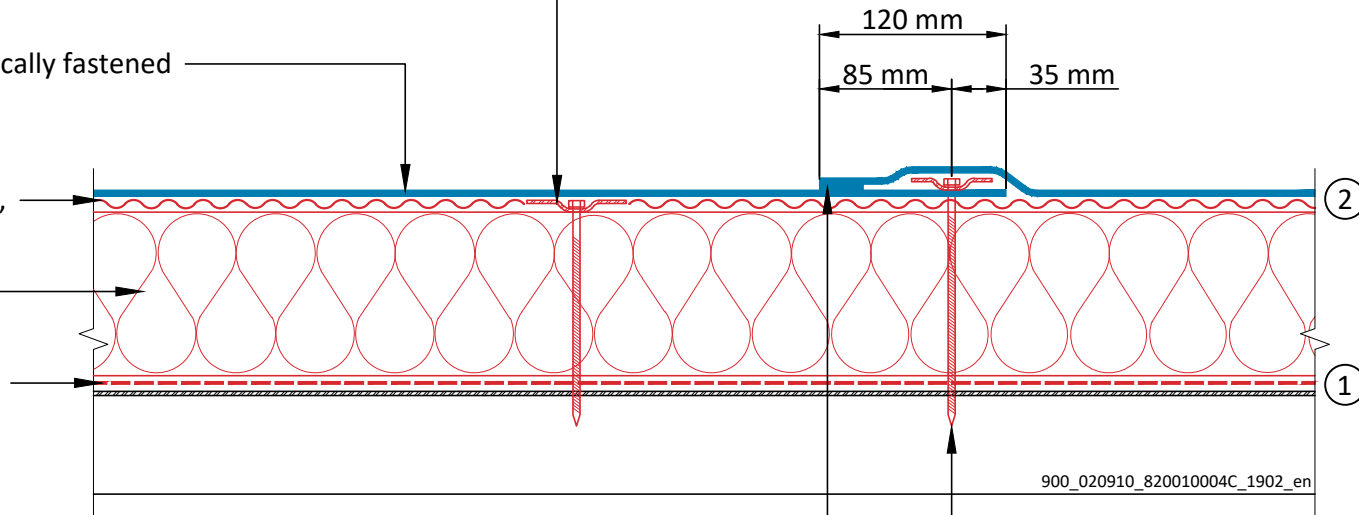
Sarnafast® Perimeter Securement



Sarnafast® Washers

Sarnafast® Fasteners

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



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

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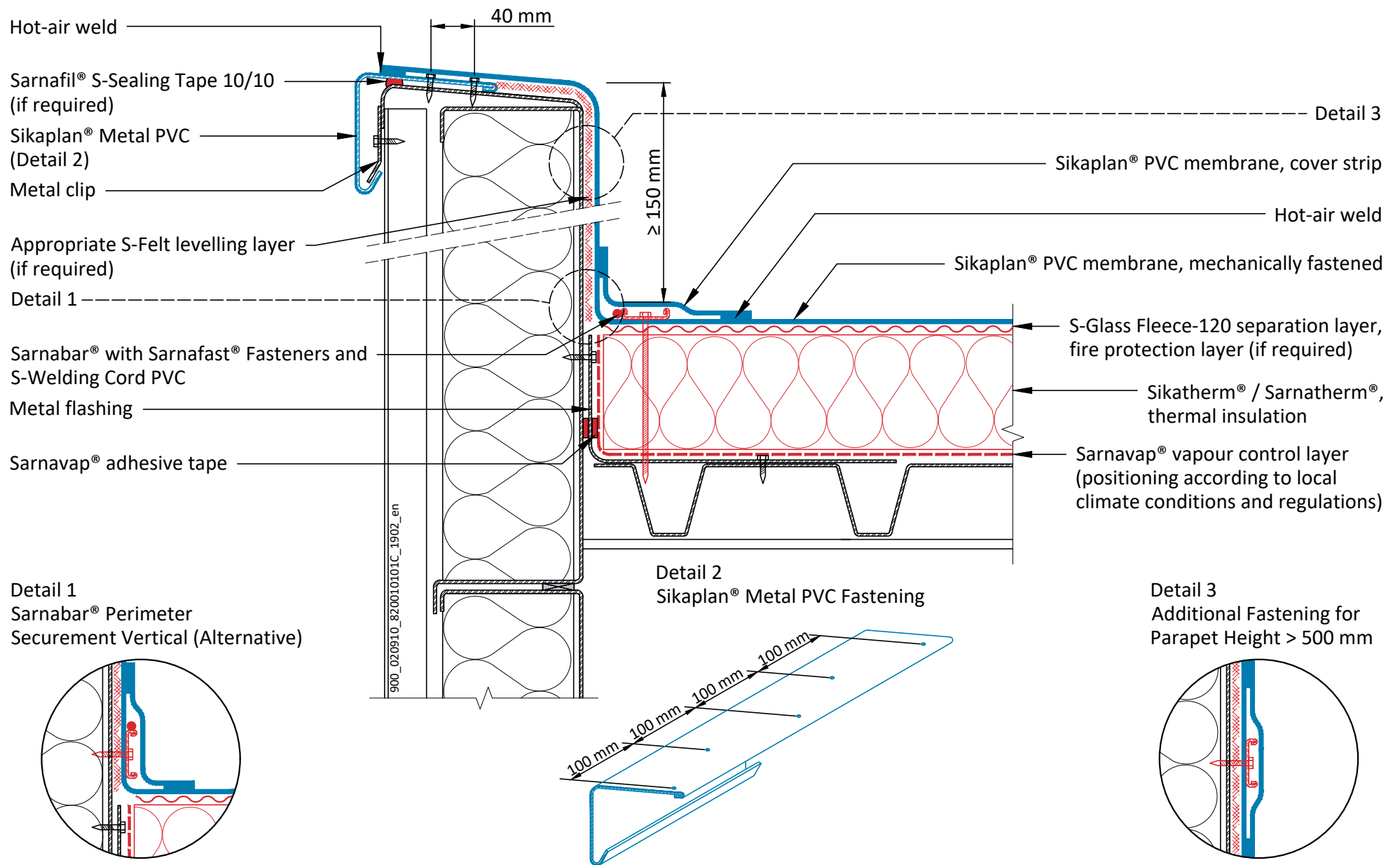
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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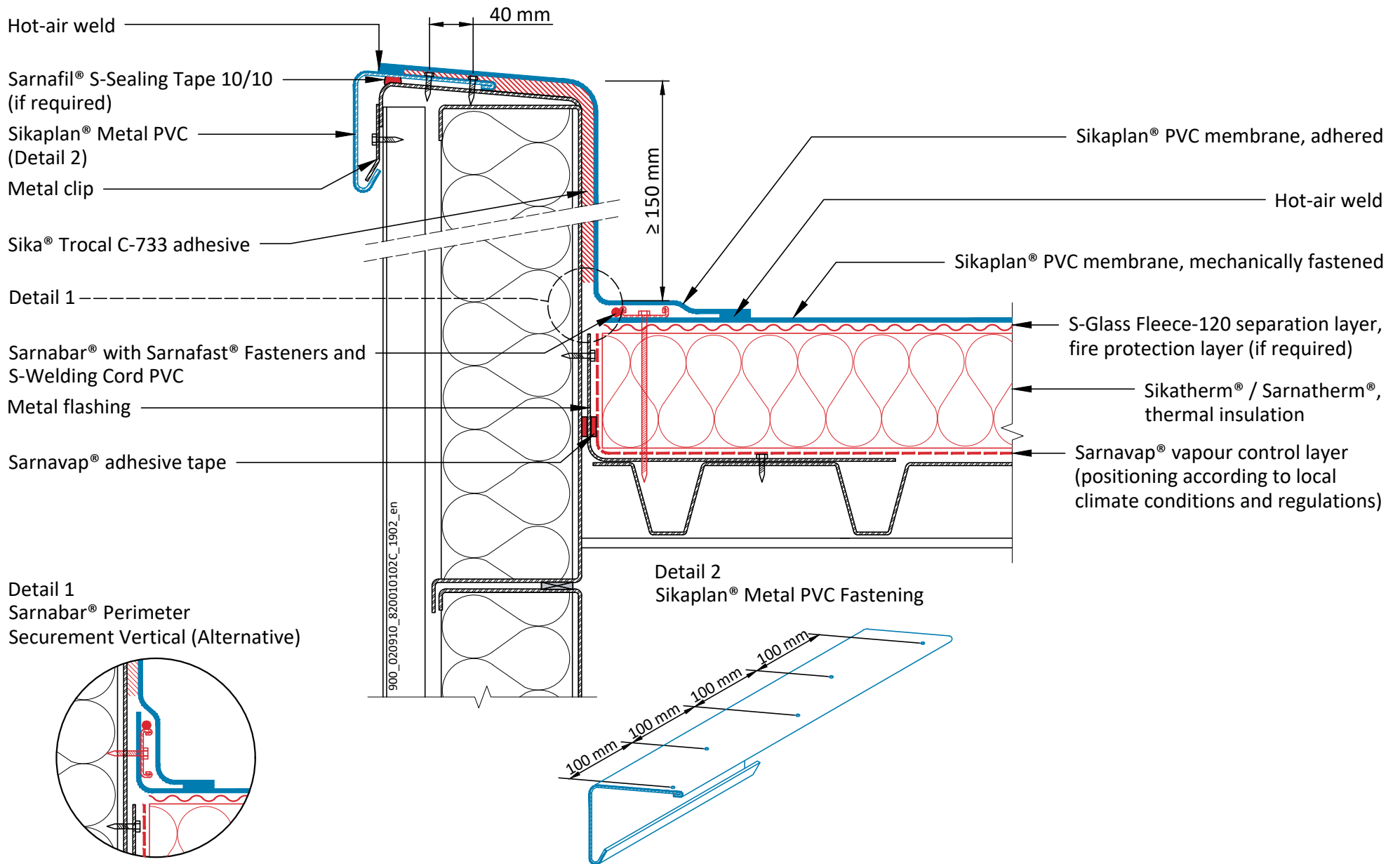
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**  
SPL PVC - 001.01.02 - Parapet - Sikaplan® Metal PVC - Adhered on Metal Parapet Element  
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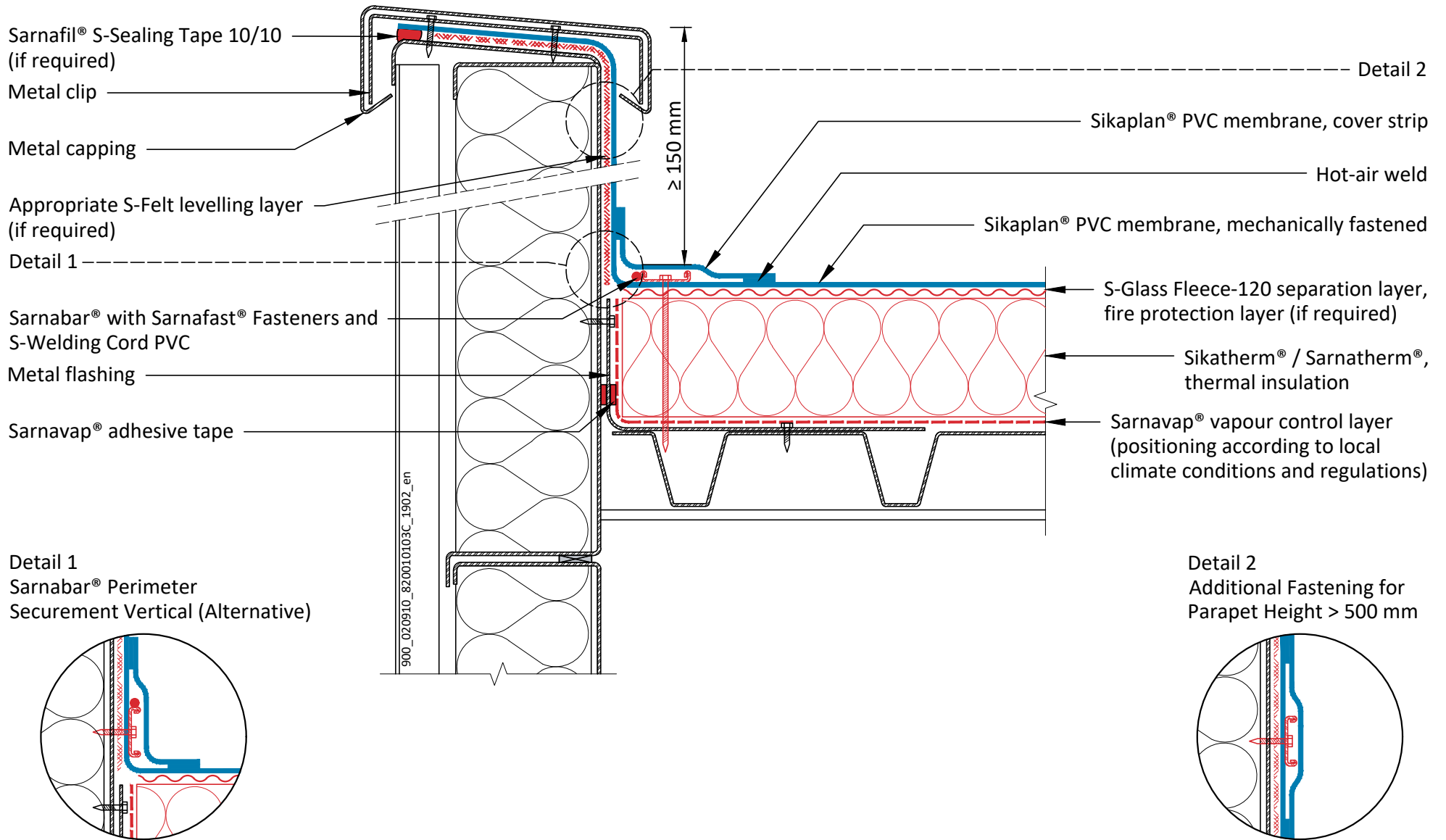
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Detail 1  
Sarnabar® Perimeter  
Securement Vertical (Alternative)

Detail 2  
Additional Fastening for  
Parapet Height > 500 mm

**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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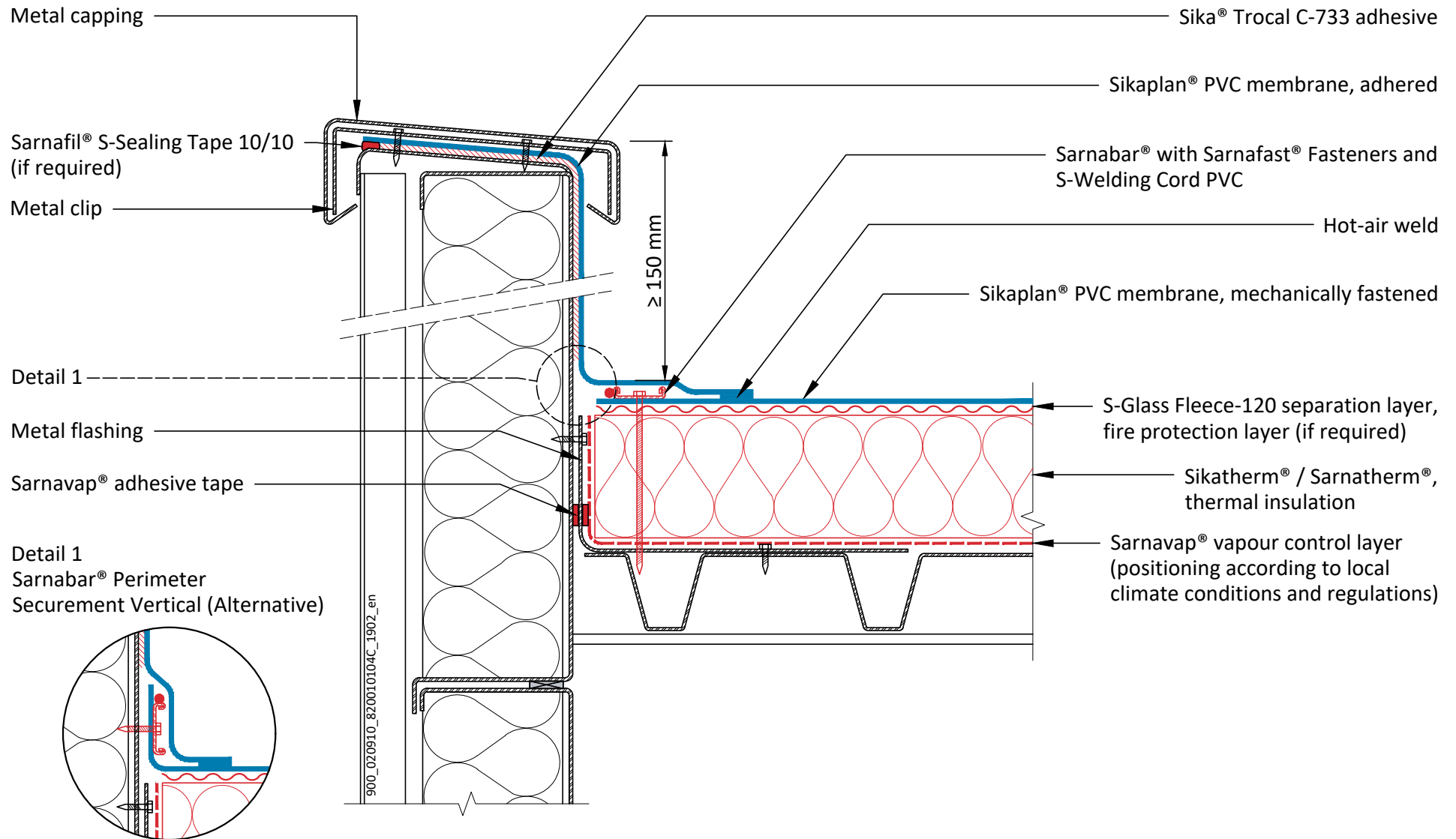
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ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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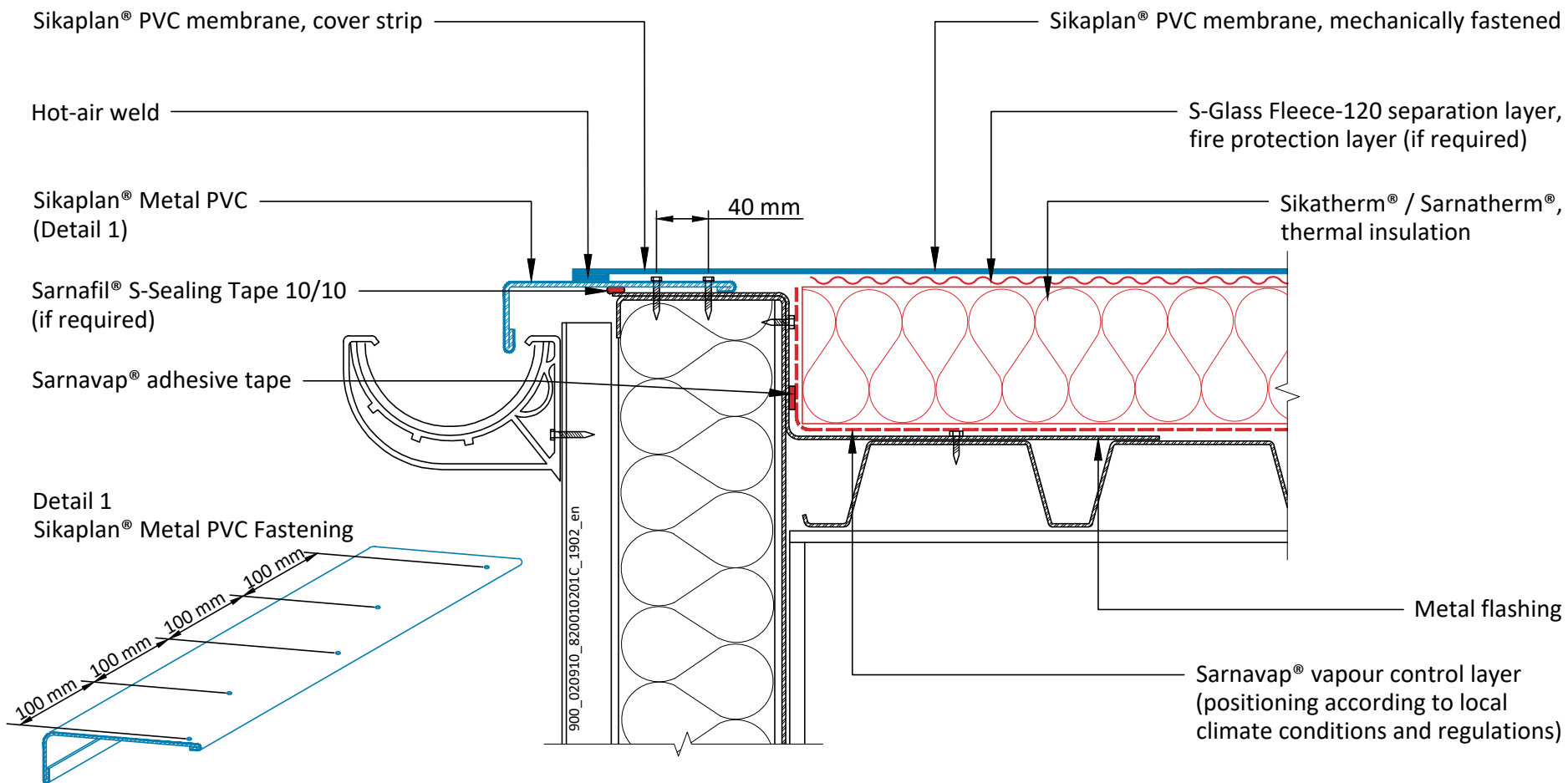
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SPL PVC - 001.02.01 - Roof Edge Termination with Gutter

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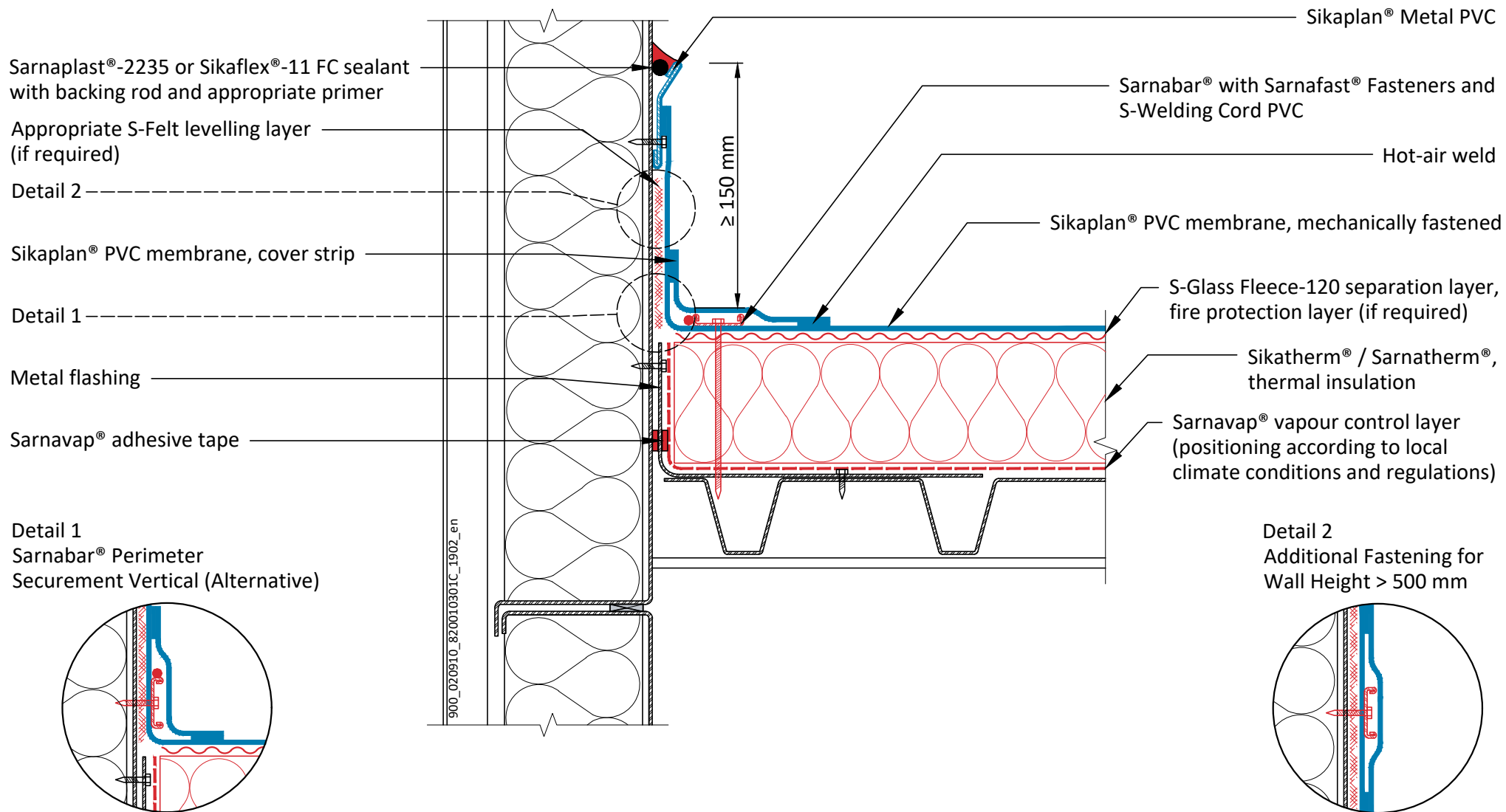
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SPL PVC - 001.03.01 - Upstand - Sikaplan® Metal PVC - Mechanically Fastened on Metal Wall Element

Sika General Detail. Template for translation.

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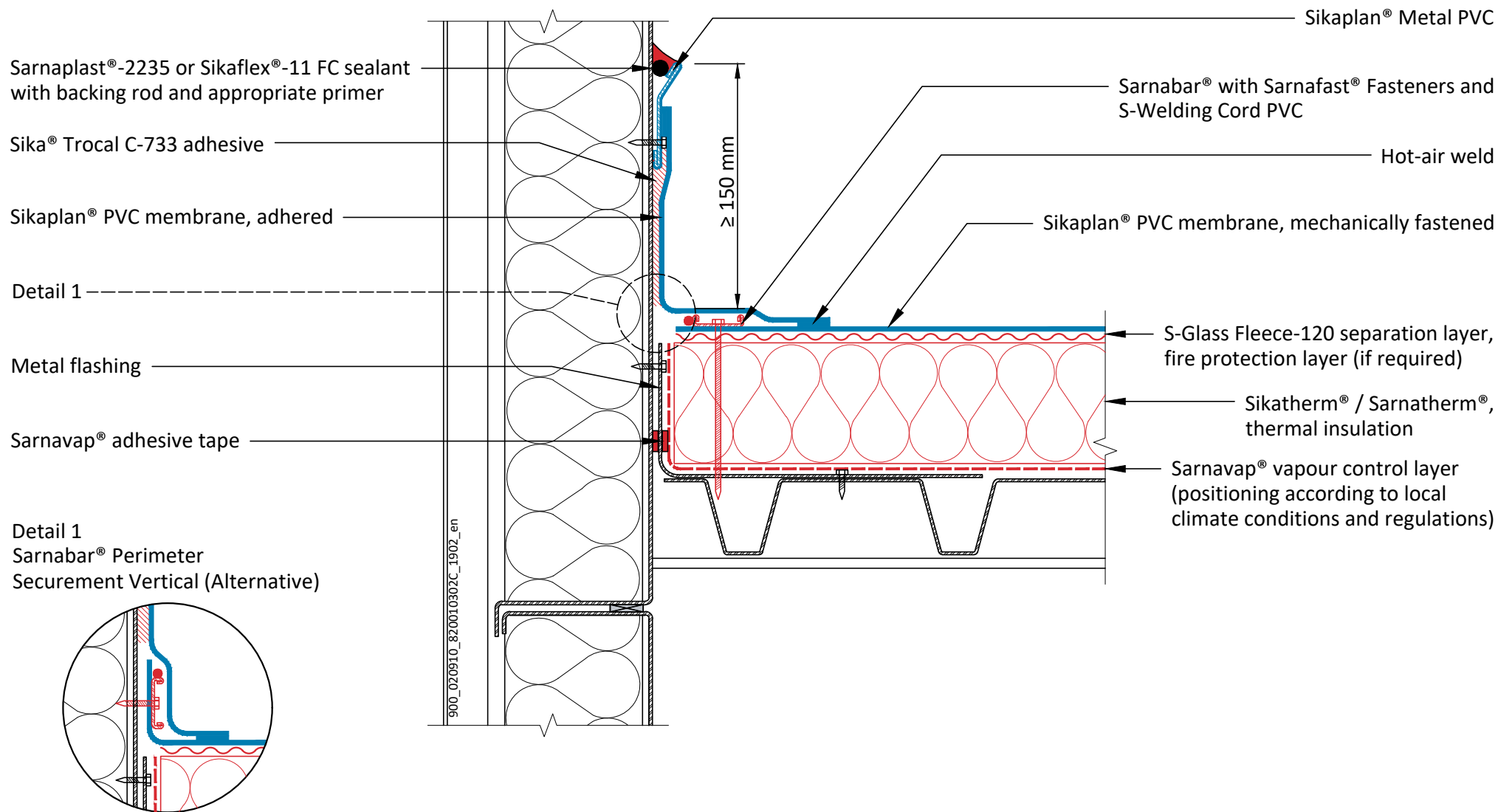
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SPL PVC - 001.03.02 - Upstand - Sikaplan® Metal PVC - Adhered on Metal Wall Element

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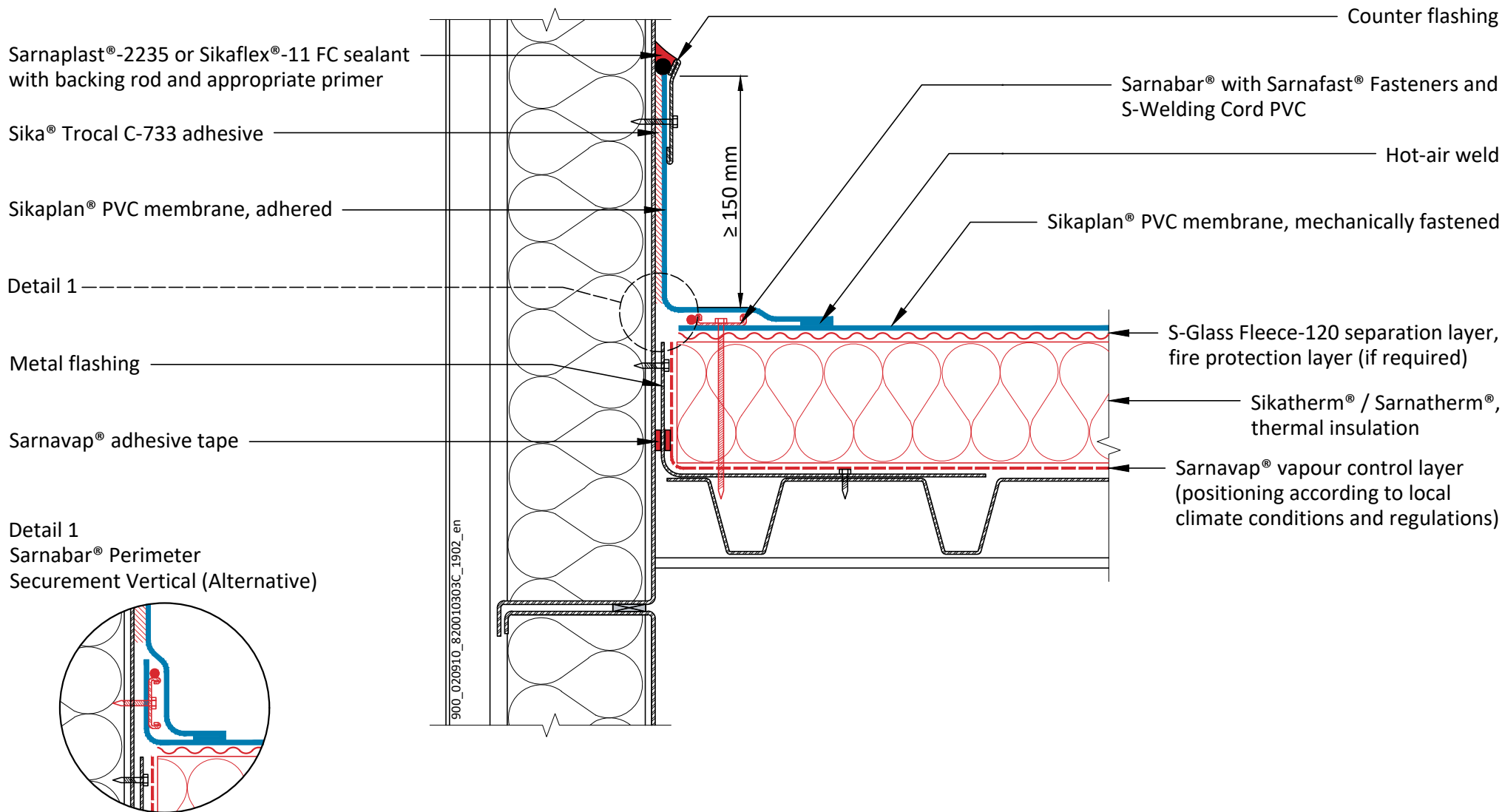
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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February 2019

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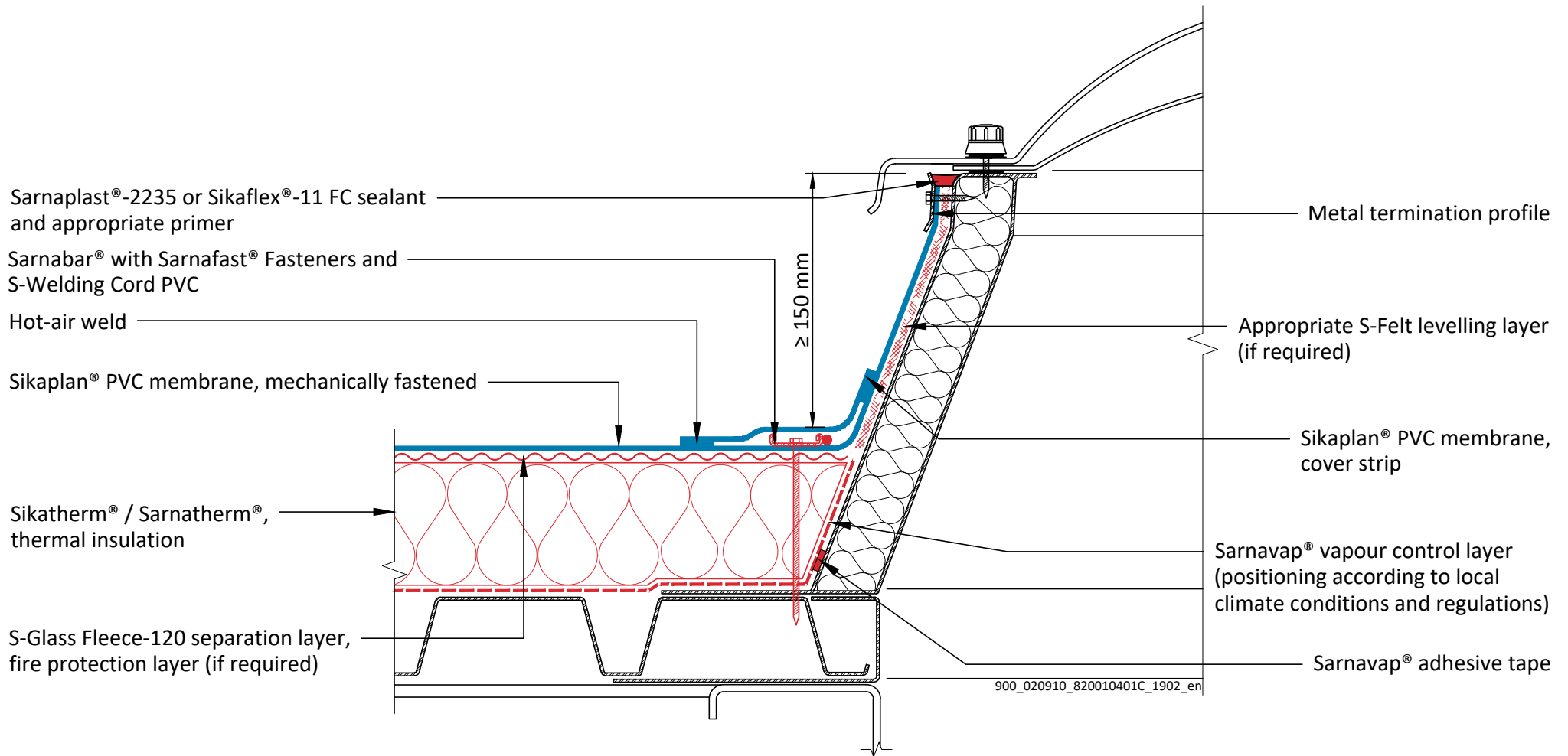
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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February 2019

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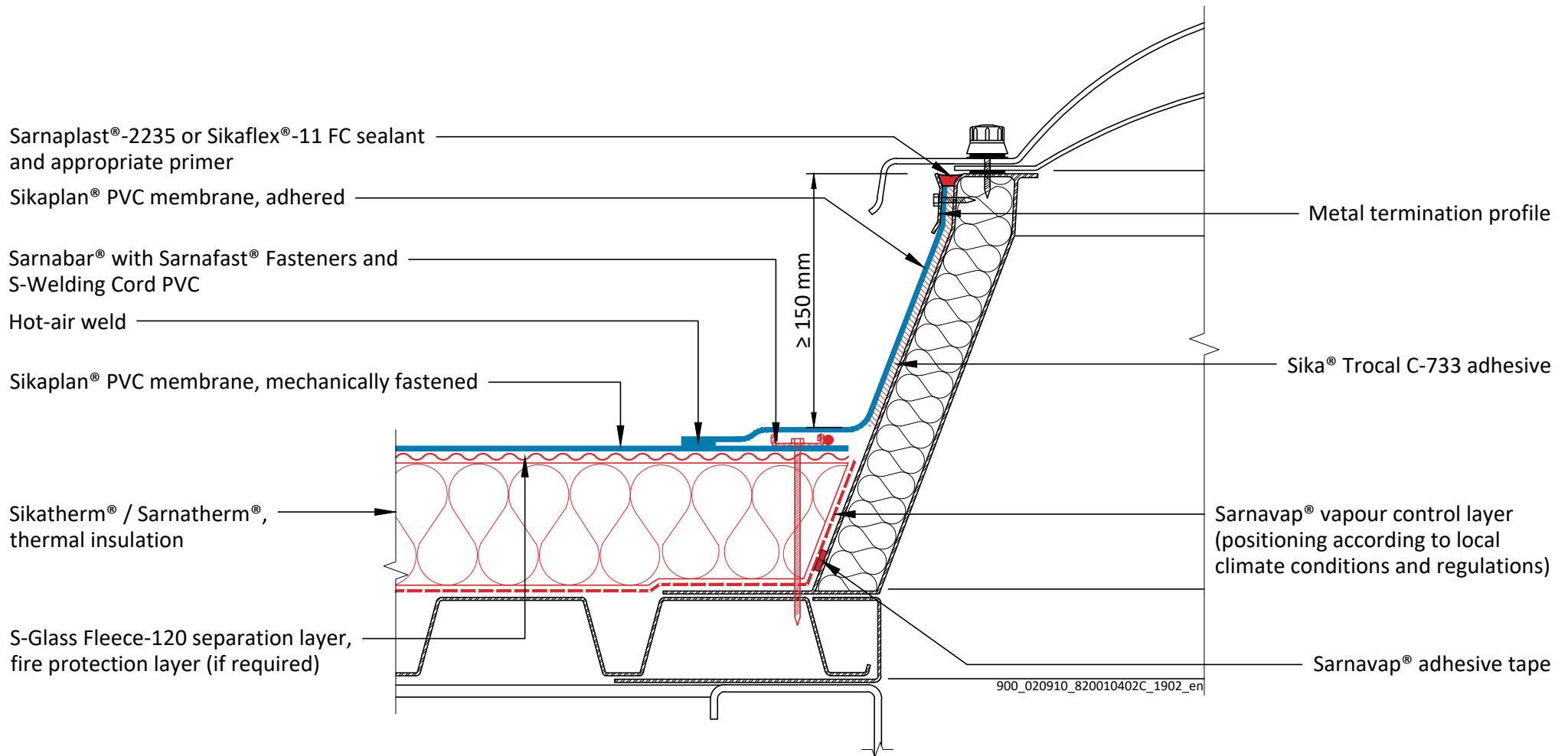
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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February 2019

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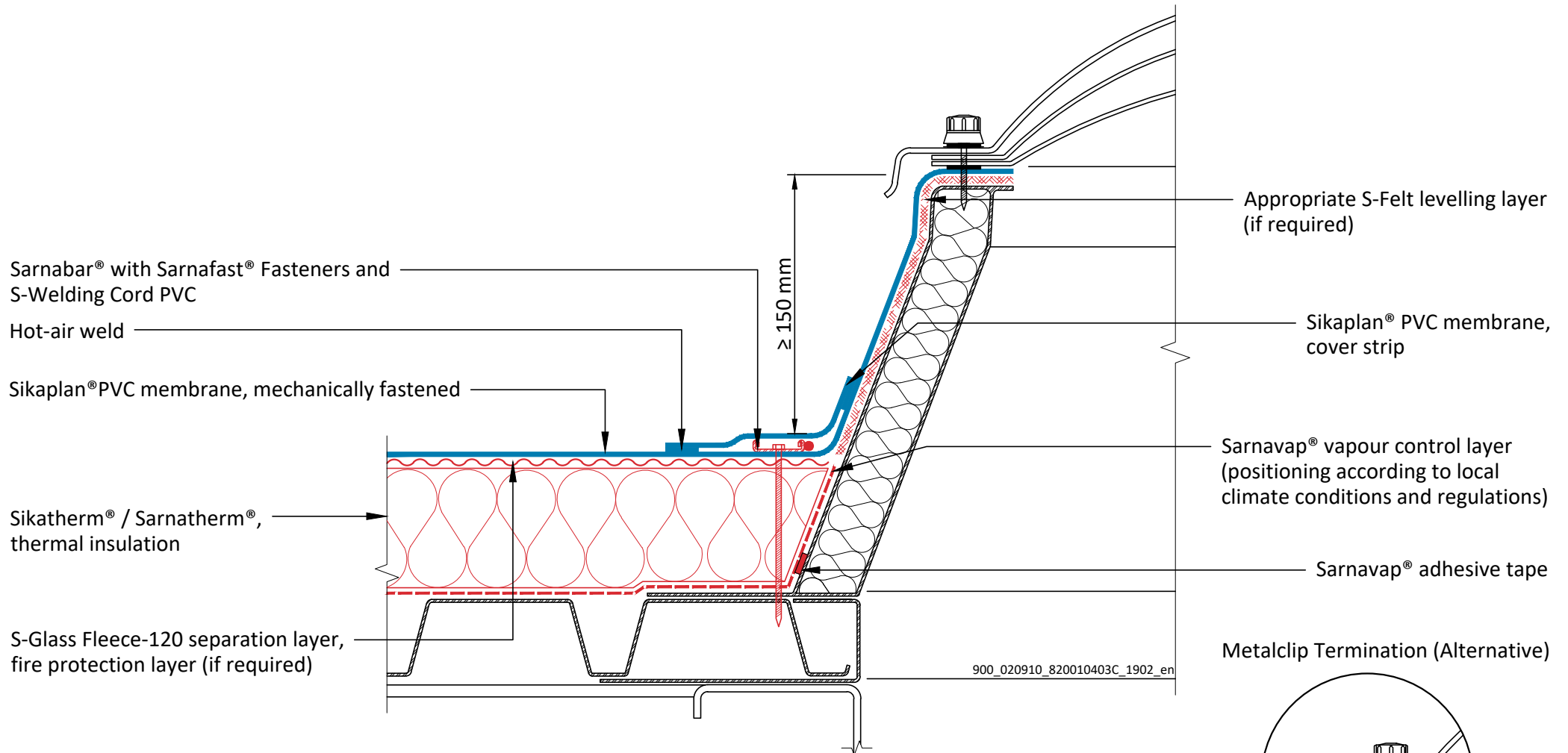
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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February 2019

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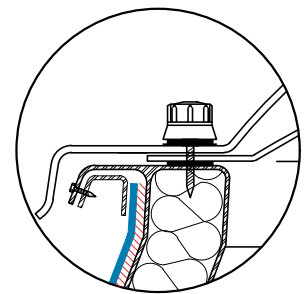
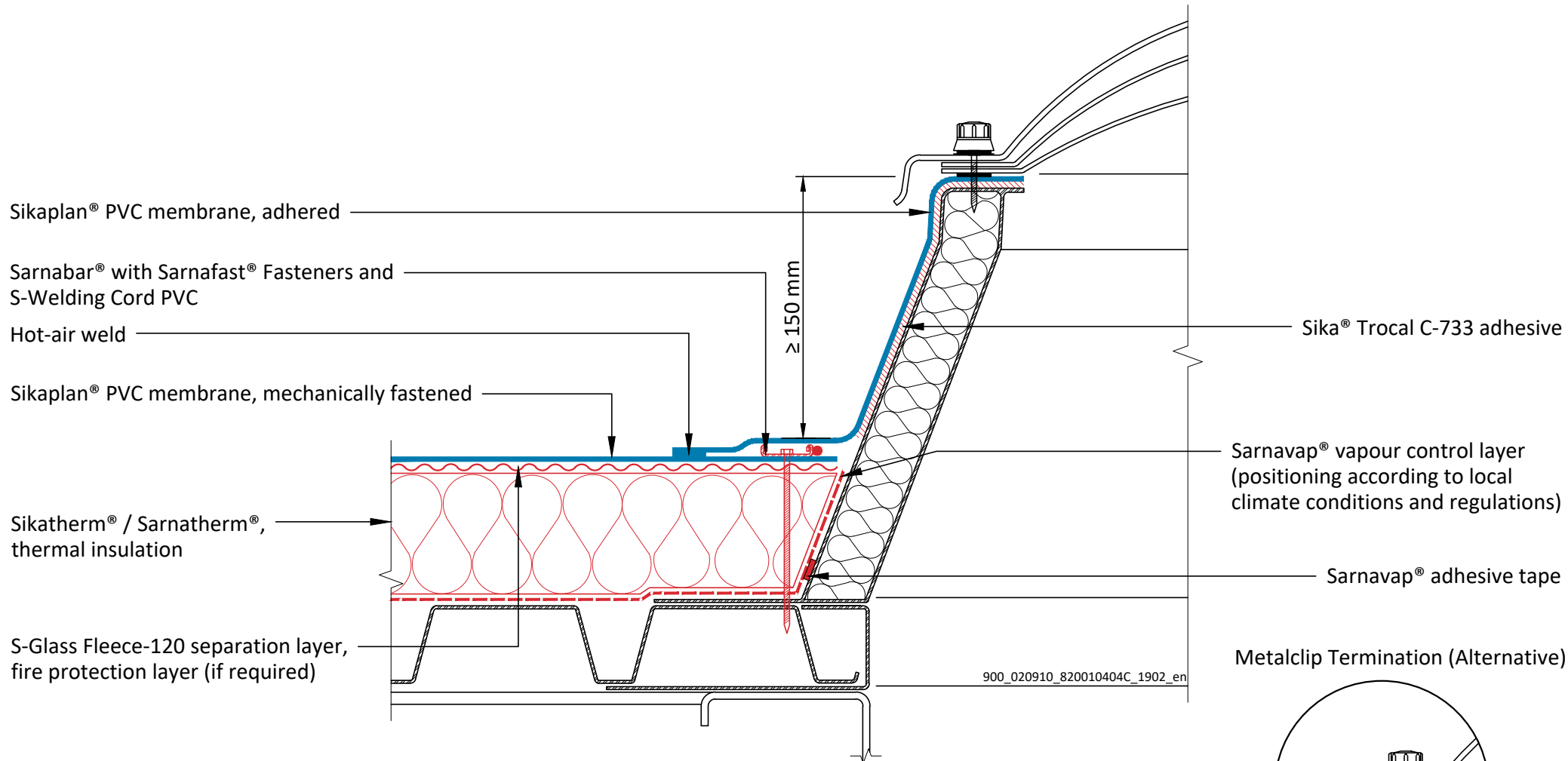
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**  
SPL PVC - 001.04.04 - Skylight - Clamped - Adhered on Skylight System  
Sika General Detail. Template for translation.

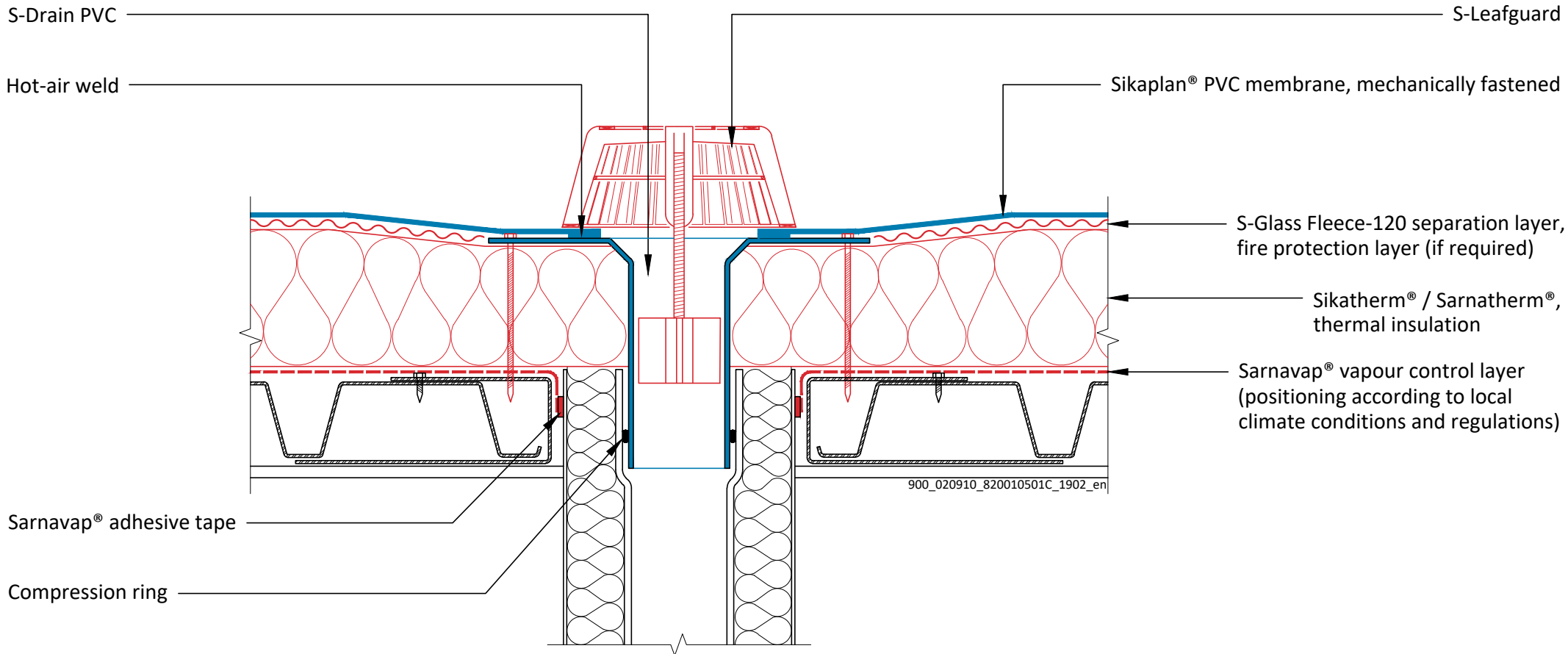
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

SPL PVC - 001.05.01 - Roof Drain (Outlet)

Sika General Detail. Template for translation.

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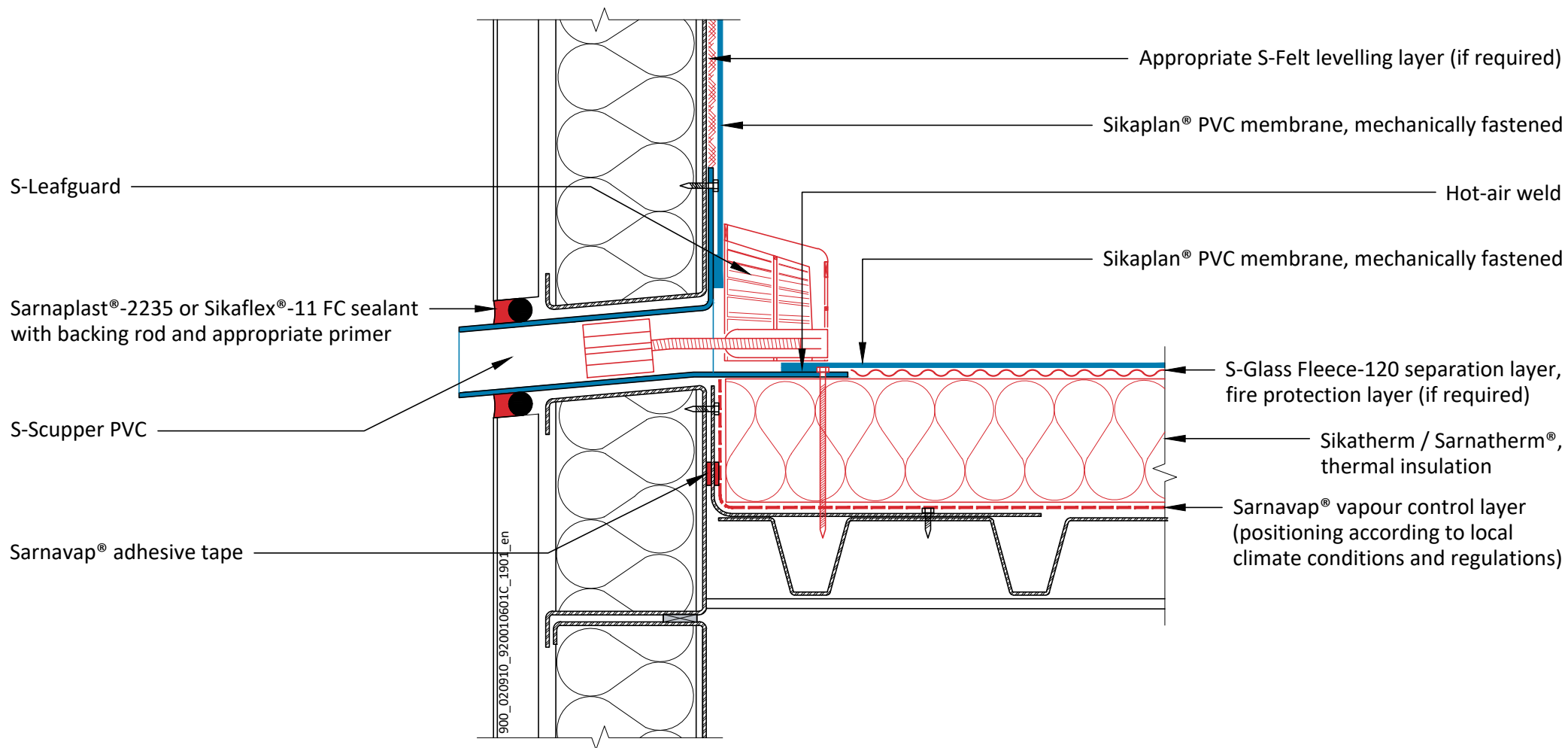
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**  
SPL PVC - 001.06.01 - Scupper - Mechanically Fastened on Metal Element  
*Sika General Detail. Template for translation.*

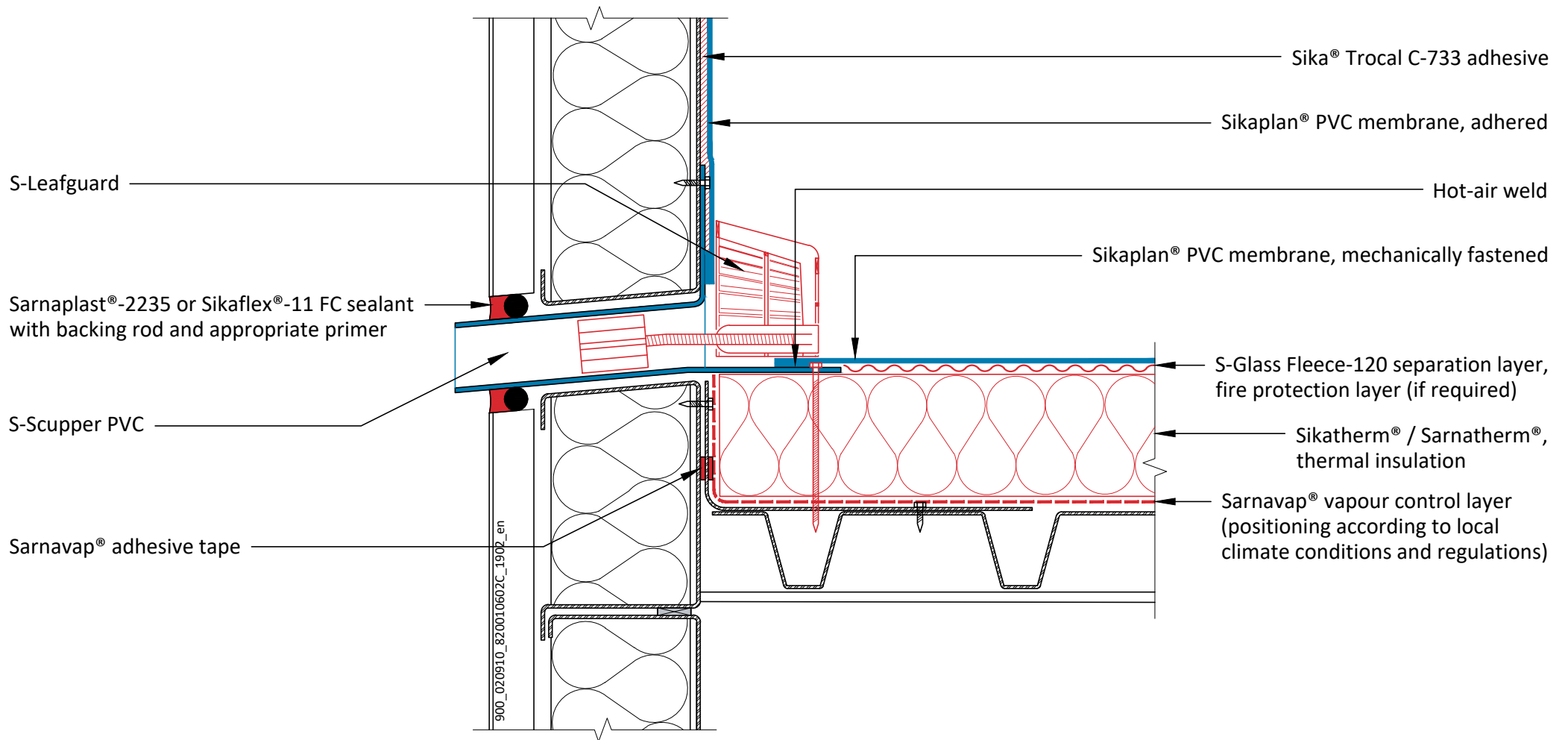
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

SPL PVC - 001.06.02 - Scupper - Adhered on Metal Element

Sika General Detail. Template for translation.

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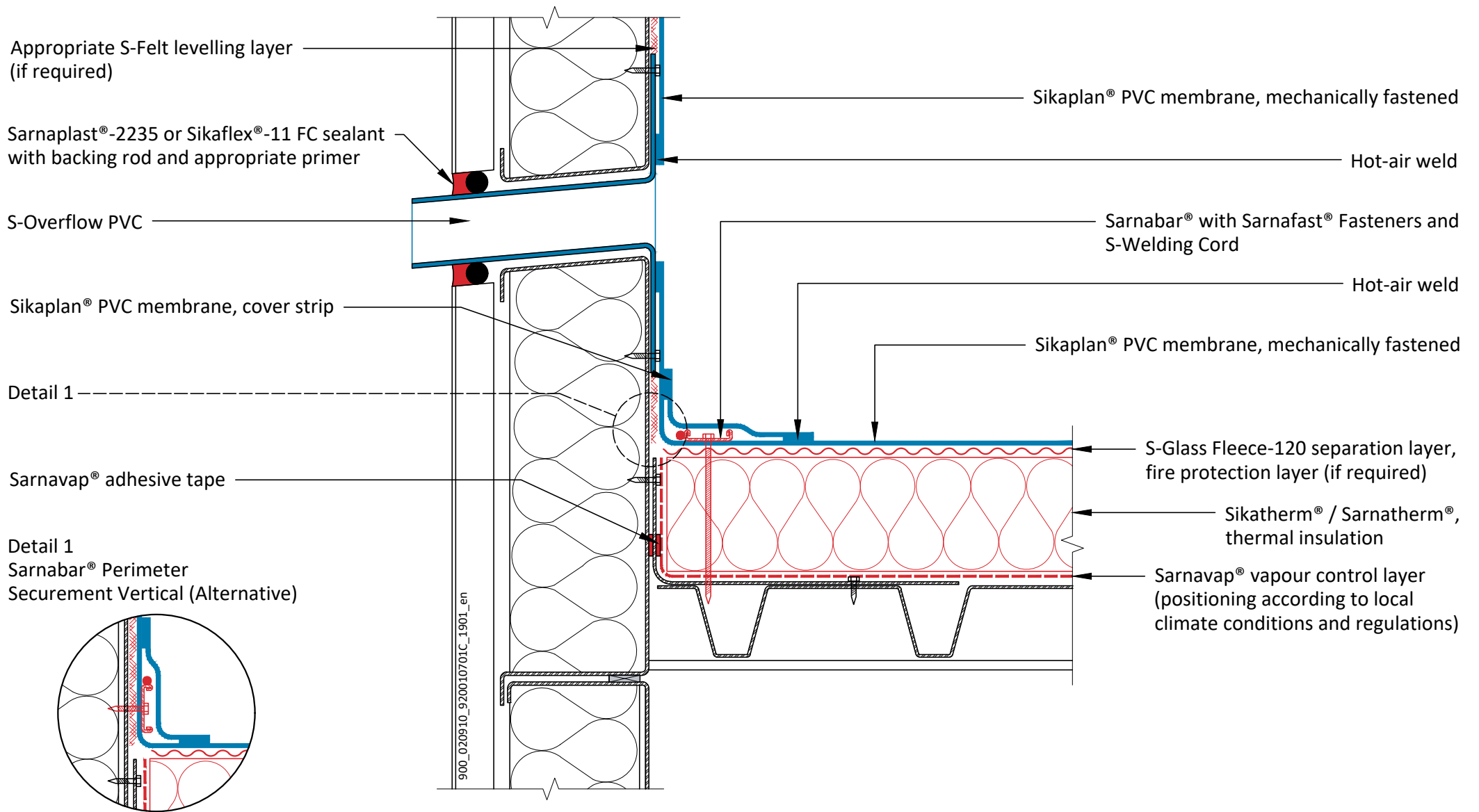
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

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

Sika General Detail. Template for translation.

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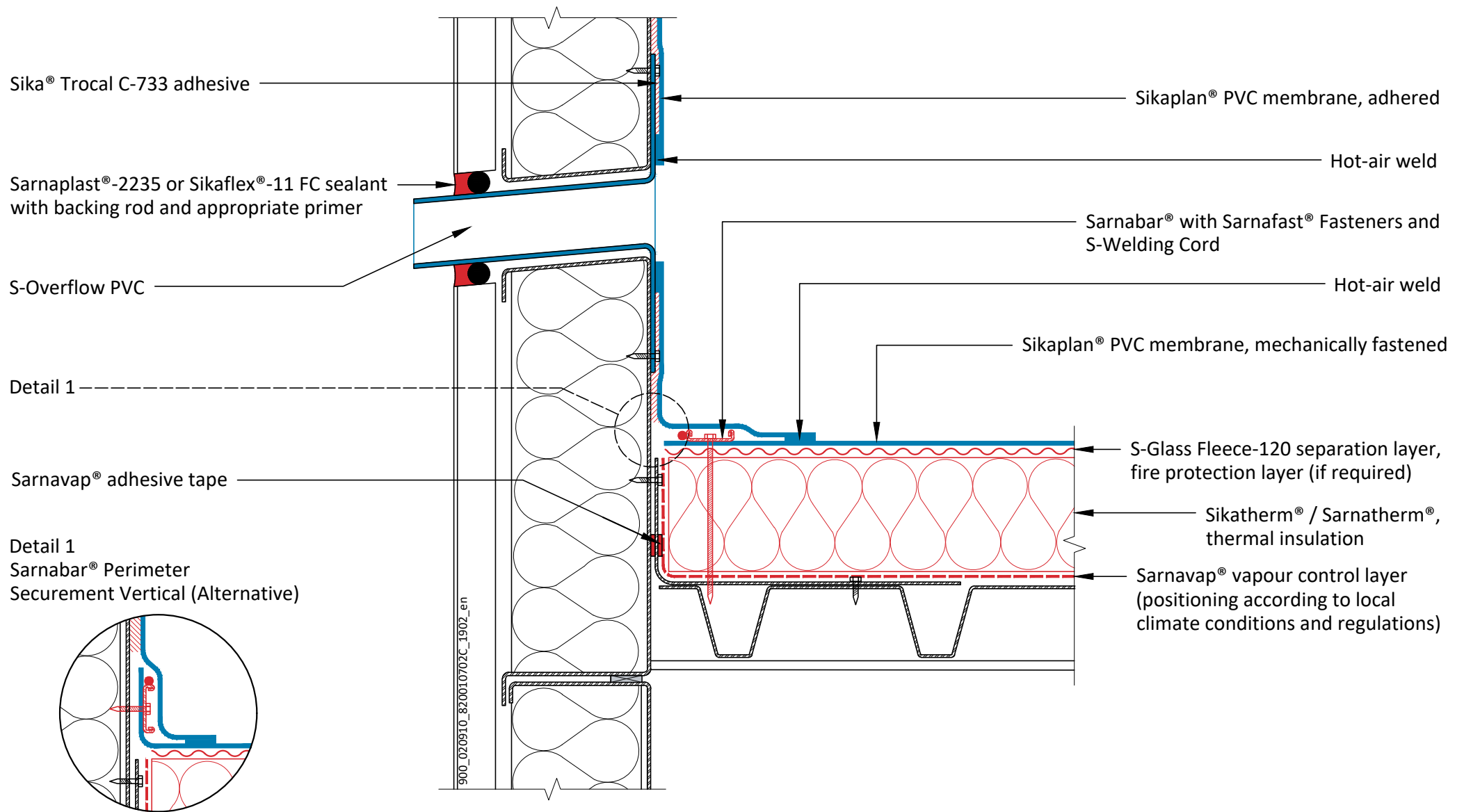
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Sika® Trocal C-733 adhesive

Sikaplan® PVC membrane, adhered

Sarnaplast®-2235 or Sikaflex®-11 FC sealant with backing rod and appropriate primer

Hot-air weld

S-Overflow PVC

Sarnabar® with Sarnafast® Fasteners and S-Welding Cord

Hot-air weld

Detail 1

Sikaplan® PVC membrane, mechanically fastened

Sarnavap® adhesive tape

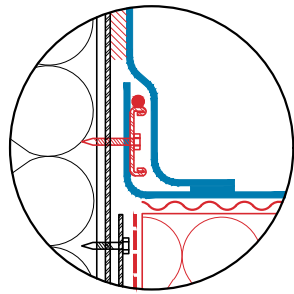
S-Glass Fleece-120 separation layer, fire protection layer (if required)

Detail 1  
Sarnabar® Perimeter Securement Vertical (Alternative)

Sikatherm® / Sarnatherm®, thermal insulation

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

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

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February 2019

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SPL PVC - 001.07.02 - Overflow - Adhered on Metal Element

Sika General Detail. Template for translation.

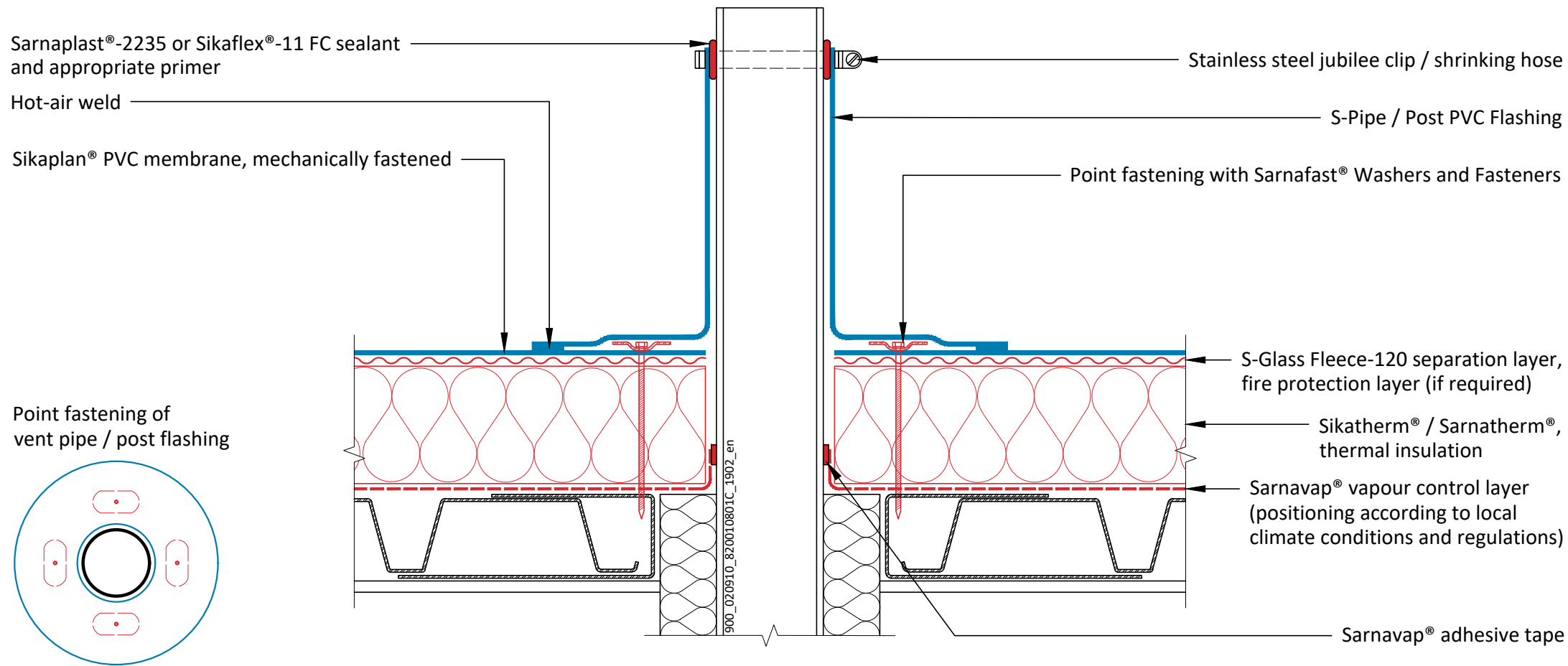
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**

SPL PVC - 001.08.01 - Vent Pipe / Post

Sika General Detail. Template for translation.

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Sikaplan® PVC membrane, mechanically fastened

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

Sikatherm® / Sarnatherm®,  
thermal insulation

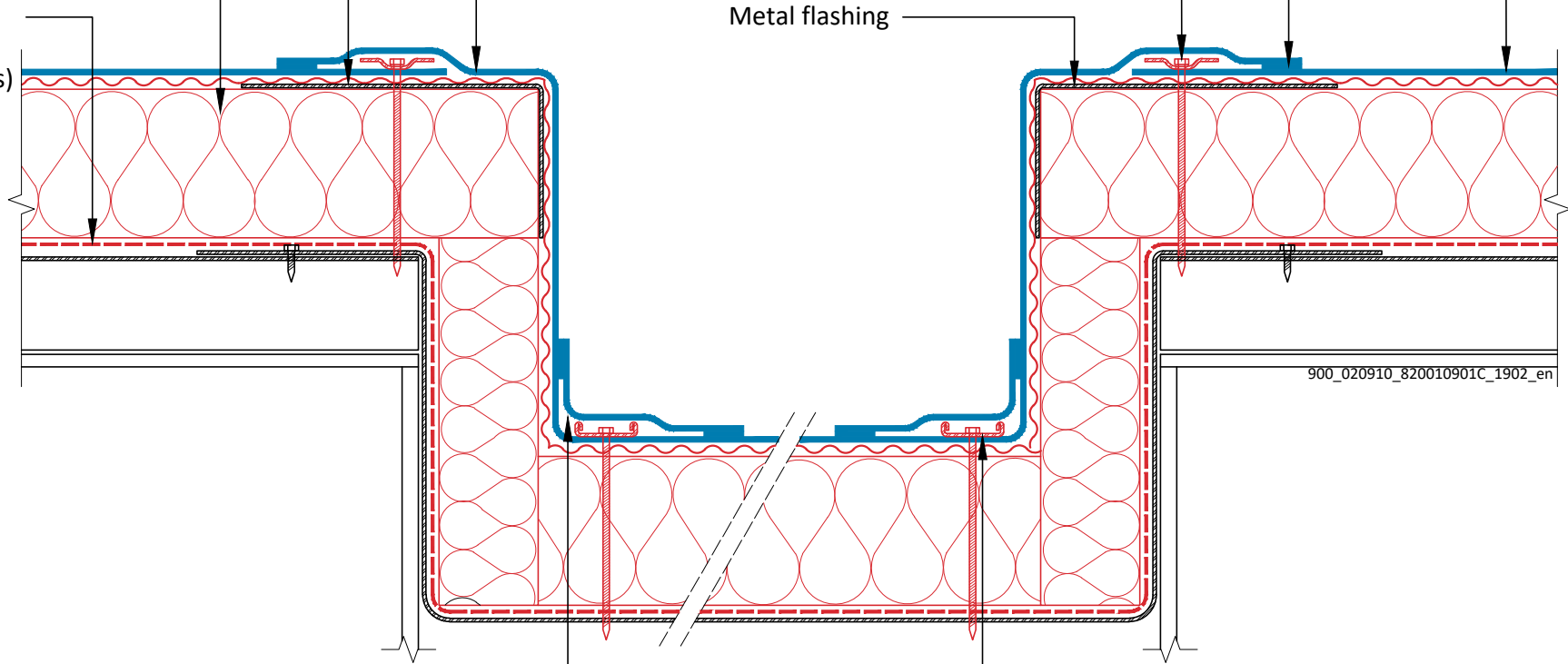
Sarnavap® vapour control layer  
(positioning according to local  
climate conditions and regulations)

Sikaplan® PVC membrane, mechanically fastened

Hot-air weld

Spot fastening with Sarnafast®  
Washers and Fasteners

Metal flashing



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Sikaplan® PVC membrane, cover strip

Sarnabar® with Sarnafast® Fasteners

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

SPL PVC - 001.09.01 - Gutter

Sika General Detail. Template for translation.

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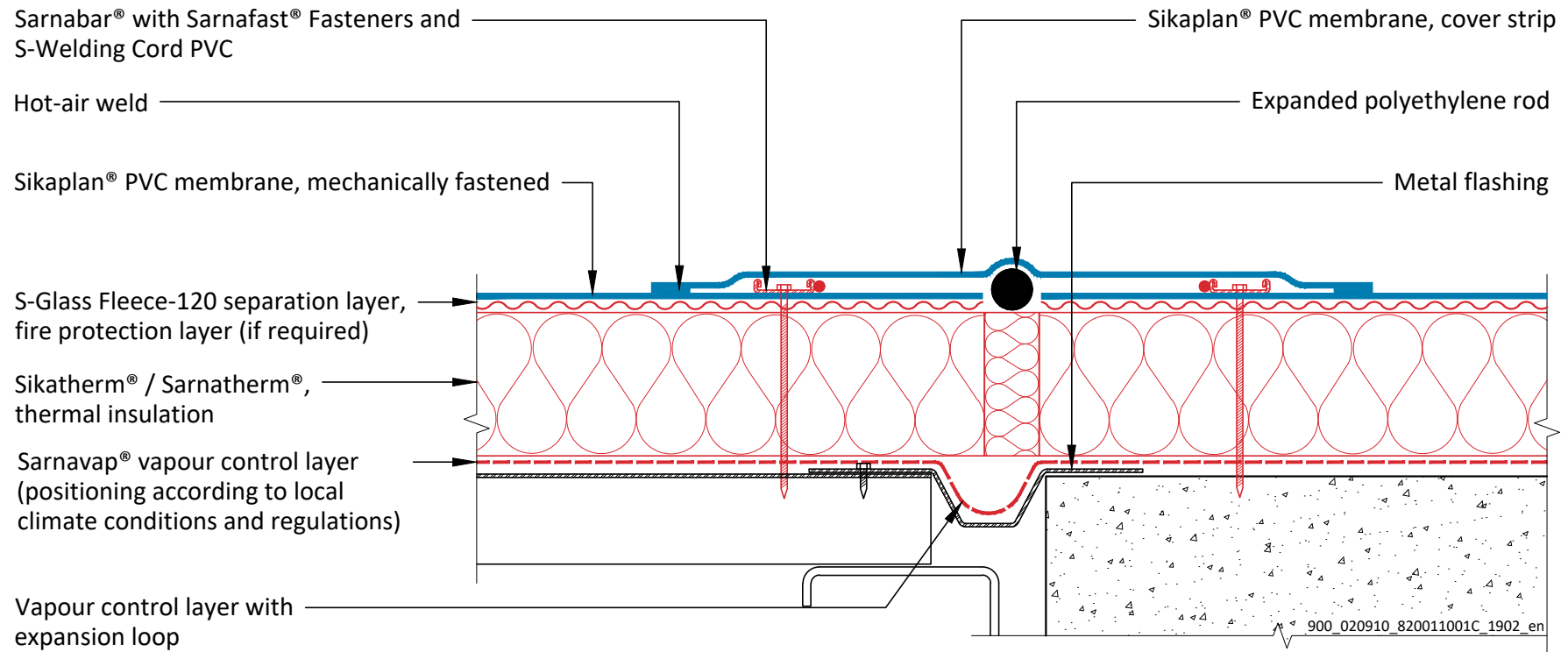
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**SIKAPLAN® PVC - MECHANICALLY FASTENED ROOF SYSTEM  
ON METAL DECK WITH THERMAL INSULATION**  
SPL PVC - 001.10.01 - Movement Joint  
*Sika General Detail. Template for translation.*

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February 2019

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