



**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**
TECHNICAL DETAILS SF TPO – 003.

SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM ON CONCRETE DECK WITH THERMAL INSULATION

NUMBERING OF DETAILS

SF TPO - 003.00.01

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	Details
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	

SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM ON CONCRETE DECK WITH THERMAL INSULATION

LIST OF DETAILS

SF TPO - 003.00.01 - Build-up - Sarnafast® Tube Spot Fastening System

SF TPO - 003.00.02 - Build-up - Sarnafast® Spot Fastening System

SF TPO - 003.01.01 - Parapet - Sarnafil® T Metal Sheet - Mechanically Fastened on Concrete Parapet

SF TPO - 003.01.02 - Parapet - Sarnafil® T Metal Sheet - Adhered on Concrete Parapet

SF TPO - 003.01.03 - Parapet - Metal Capping - Mechanically Fastened on Concrete Parapet

SF TPO - 003.01.04 - Parapet - Metal Capping - Adhered on Concrete Parapet

SF TPO - 003.02.01 - Roof Edge Termination with Gutter

SF TPO - 003.03.01 - Upstand - Sarnafil® T Metal Sheet - Mechanically Fastened on Concrete Wall

SF TPO - 003.03.02 - Upstand - Sarnafil® T Metal Sheet - Adhered on Concrete Wall

SF TPO - 003.03.03 - Upstand - Counter Flashing - Adhered on Concrete Wall

SF TPO - 003.04.01 - Skylight - Sealed - Mechanically Fastened on Skylight System

SF TPO - 003.04.02 - Skylight - Sealed - Adhered on Skylight System

SF TPO - 003.04.03 - Skylight - Clamped - Mechanically Fastened on Skylight System

SF TPO - 003.04.04 - Skylight - Clamped - Adhered on Skylight System

SF TPO - 003.05.01 - Roof Drain (Outlet)

SF TPO - 003.06.01 - Scupper - Mechanically Fastened on Concrete Wall

SF TPO - 003.06.02 - Scupper - Adhered on Concrete Wall

SF TPO - 003.07.01 - Overflow - Mechanically Fastened on Concrete Wall

SF TPO - 003.07.02 - Overflow - Adhered on Concrete Wall

SF TPO - 003.08.01 - Vent Pipe / Post

SF TPO - 003.09.01 - Gutter

SF TPO - 003.10.01 - Movement Joint

Sarnafast® Fasteners and Tubes, thermal insulation fastening

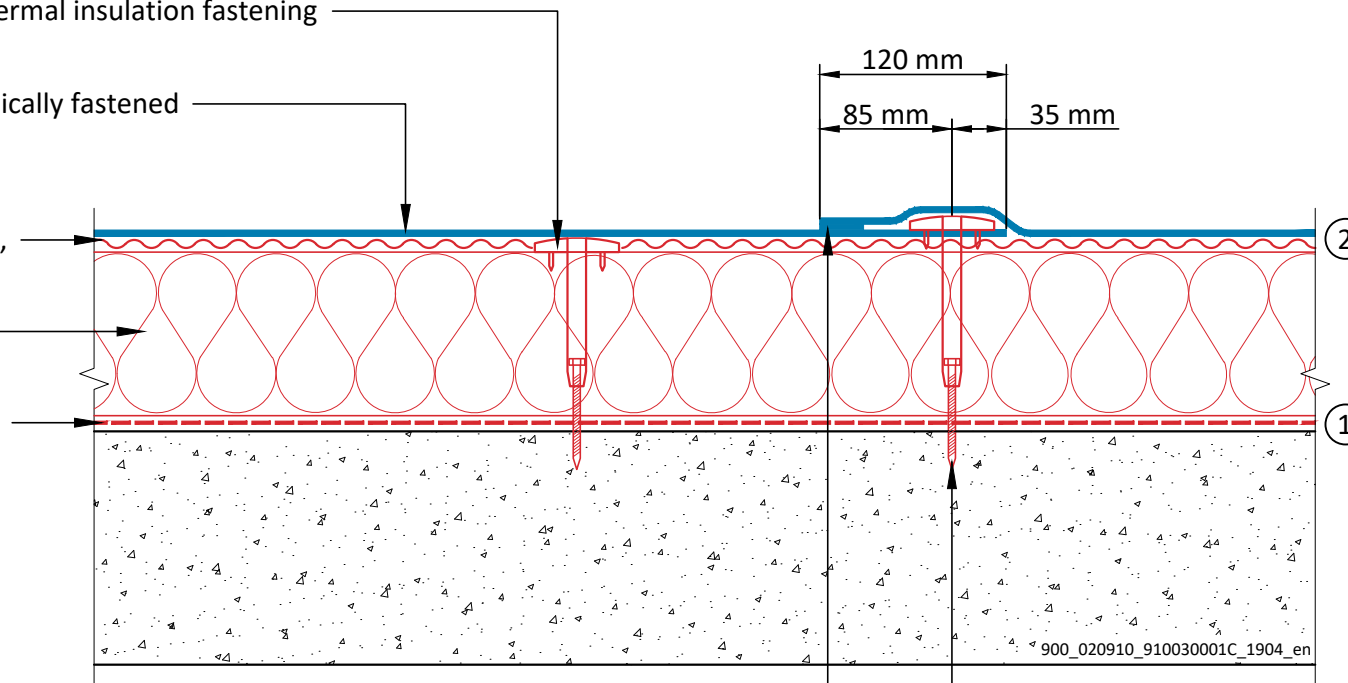
Sarnafil® TS 77 membrane, mechanically fastened

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)

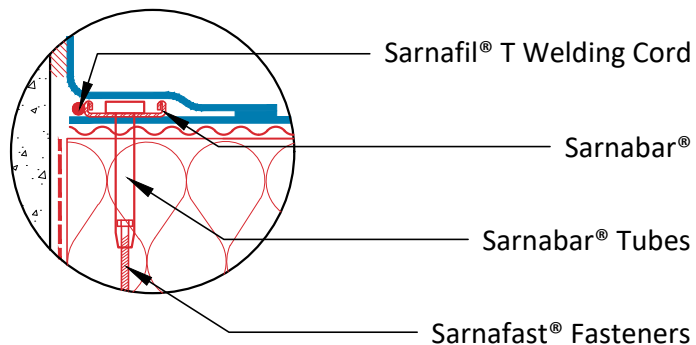
- 1 Substrate side
- 2 Membrane side



Sarnafast® Fasteners and Washers, 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®.

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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.00.01 - Build-up - Sarnafast® Tube Spot Fastening System

Sika General Detail. Template for translation.

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April 2019

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Sarnafast® Fasteners and Washers, thermal insulation fastening

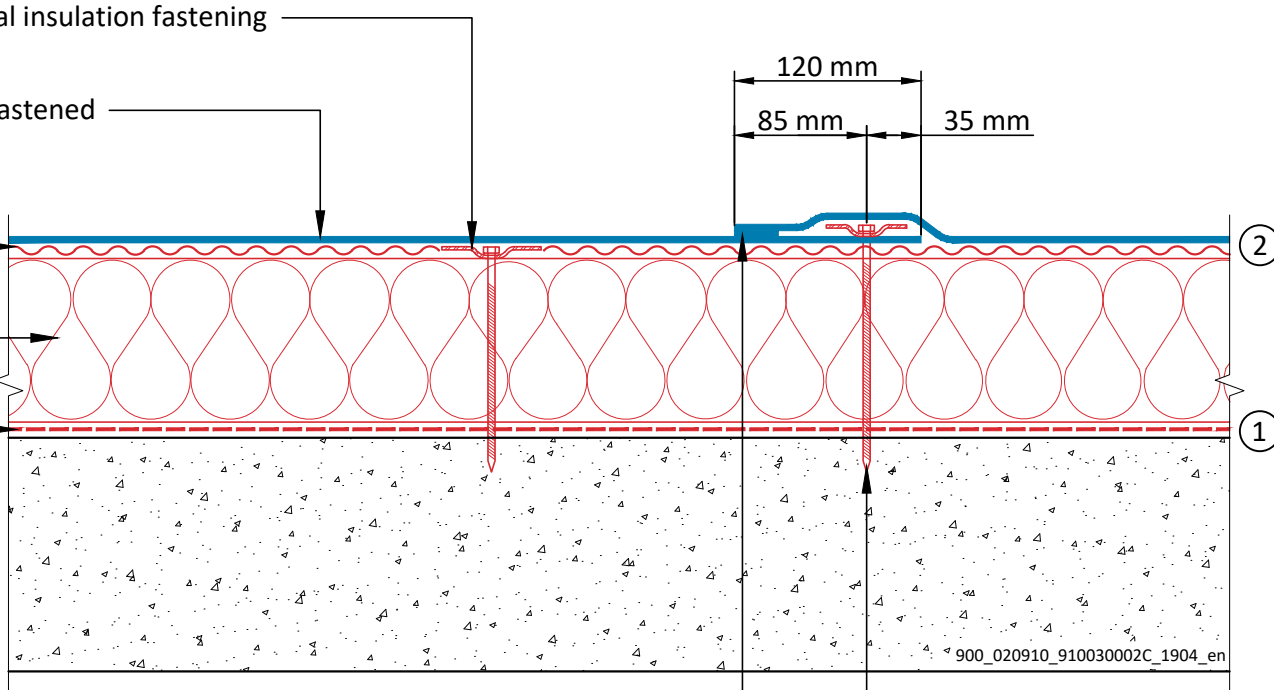
Sarnafil® TS 77 membrane, mechanically fastened

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

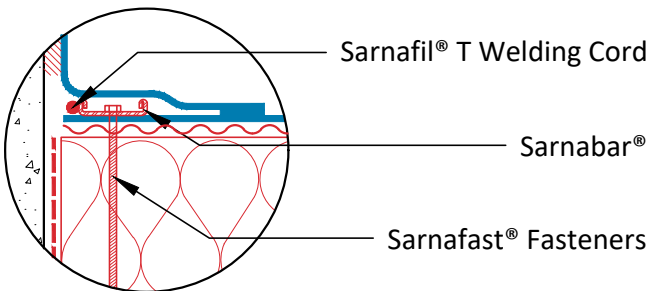
Sikatherm® / Sarnatherm®,
thermal insulation

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

- 1 Substrate side
- 2 Membrane side



Sarnabar® Perimeter Securement



Sarnafast® Fasteners and Washers, membrane fastening

Hot-air weld

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

**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.00.02 - Build-up - Sarnafast® Spot Fastening System

Sika General Detail. Template for translation.

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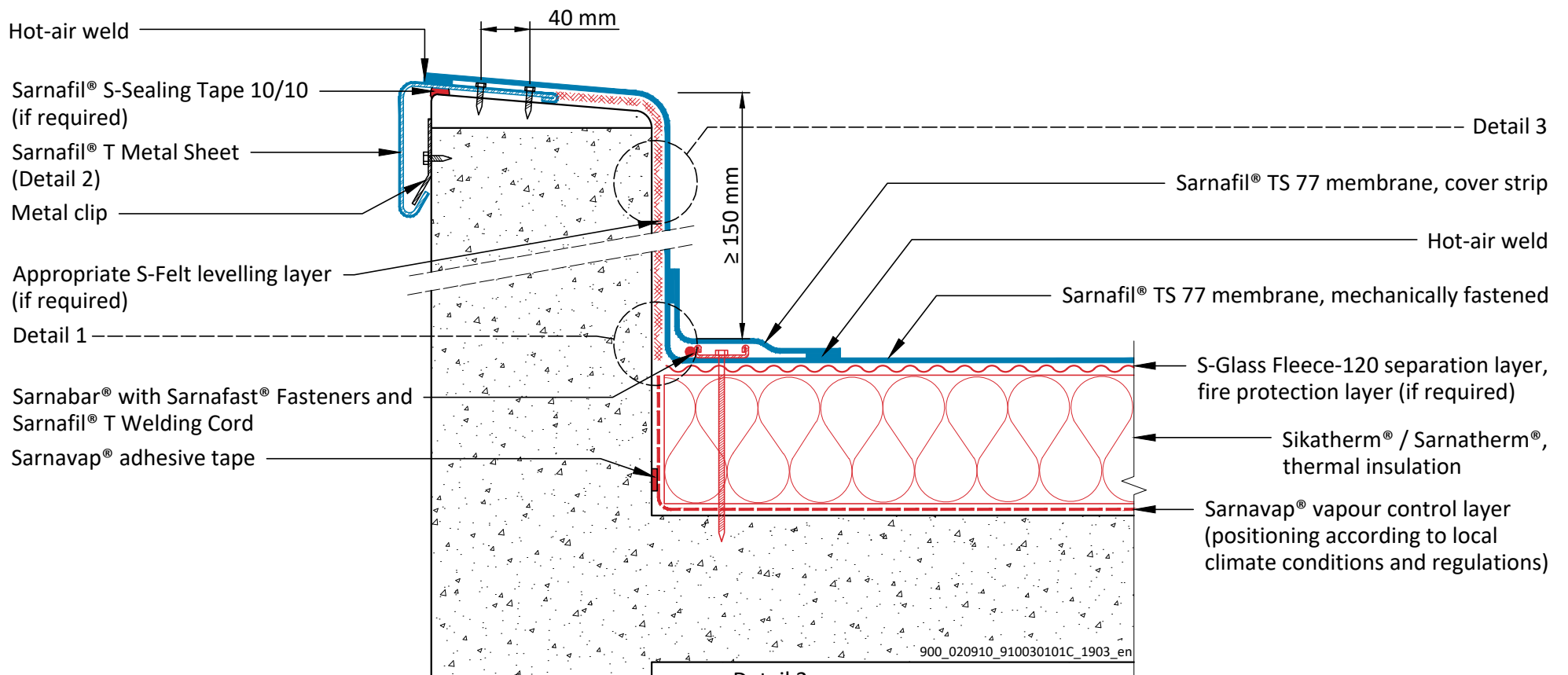
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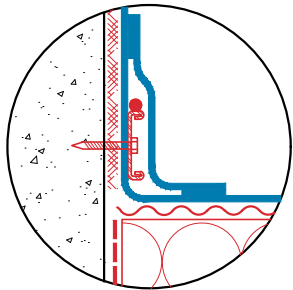


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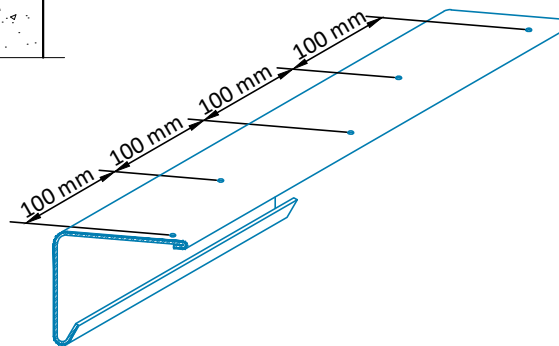
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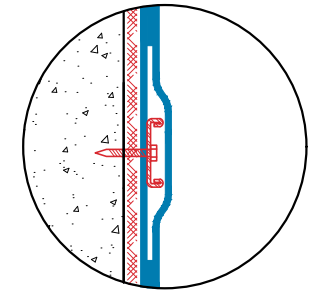
Detail 1
Sarnabar® Perimeter
Securement Vertical (Alternative)



Detail 2
Sarnafil® T Metal Sheet Fastening



Detail 3
Additional Fastening for
Parapet Height > 800 mm



**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.01.01 - Parapet - Sarnafil® T Metal Sheet - Mechanically Fastened on Concrete Parapet

Sika General Detail. Template for translation.

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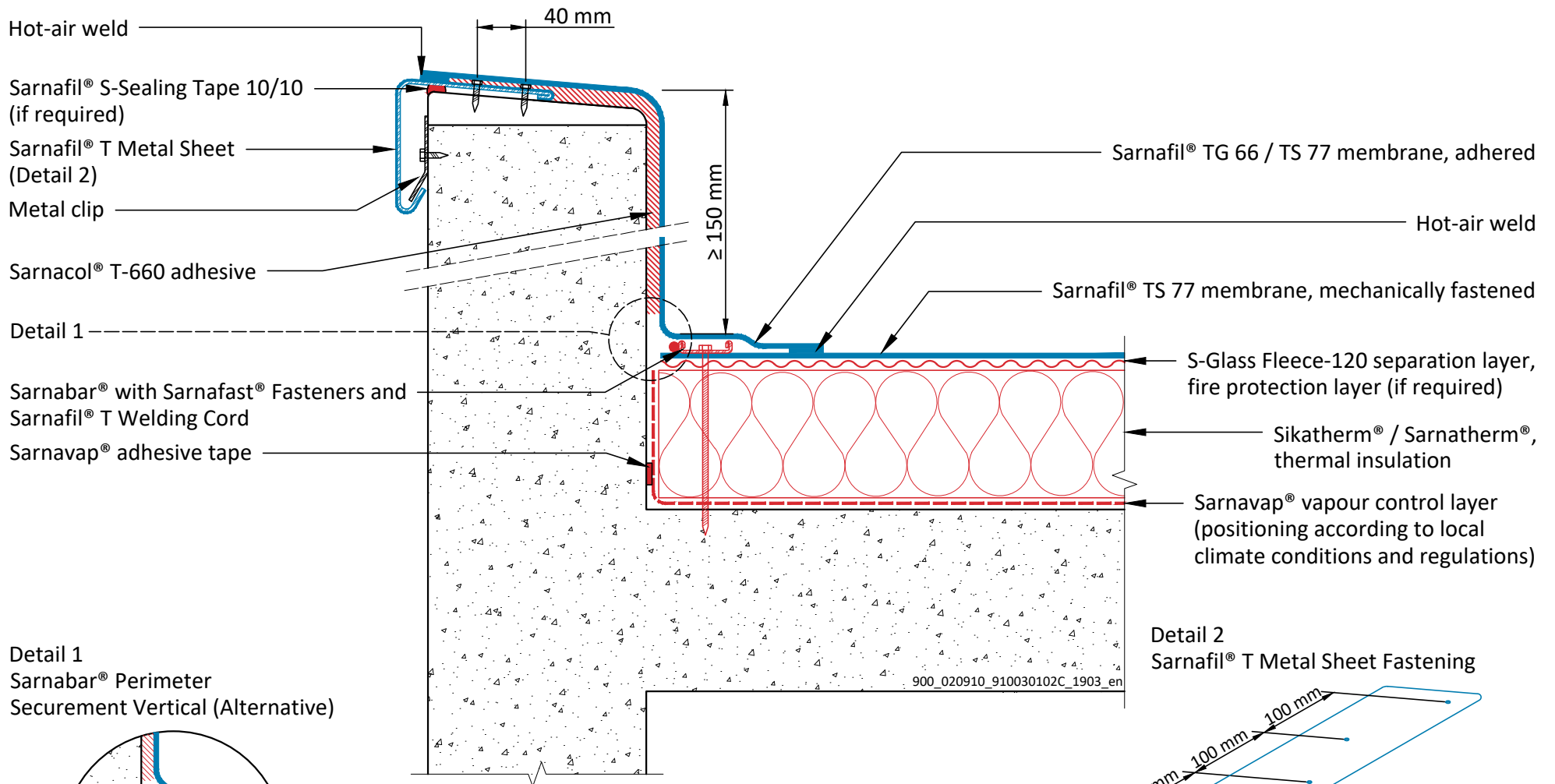
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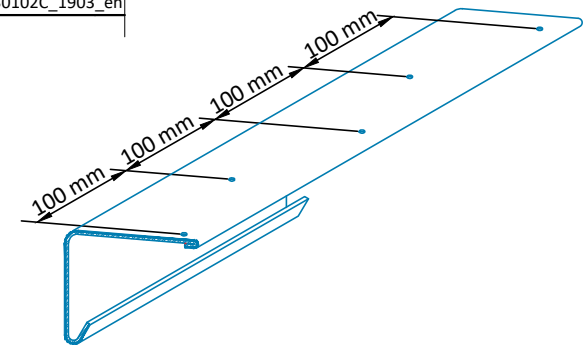
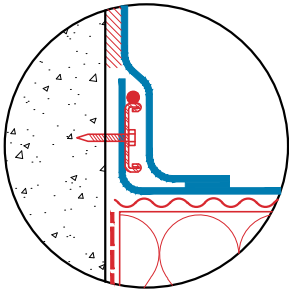


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Detail 1
Sarnabar® Perimeter
Securement Vertical (Alternative)



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ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.01.02 - Parapet - Sarnafil® T Metal Sheet - Adhered on Concrete Parapet

Sika General Detail. Template for translation.

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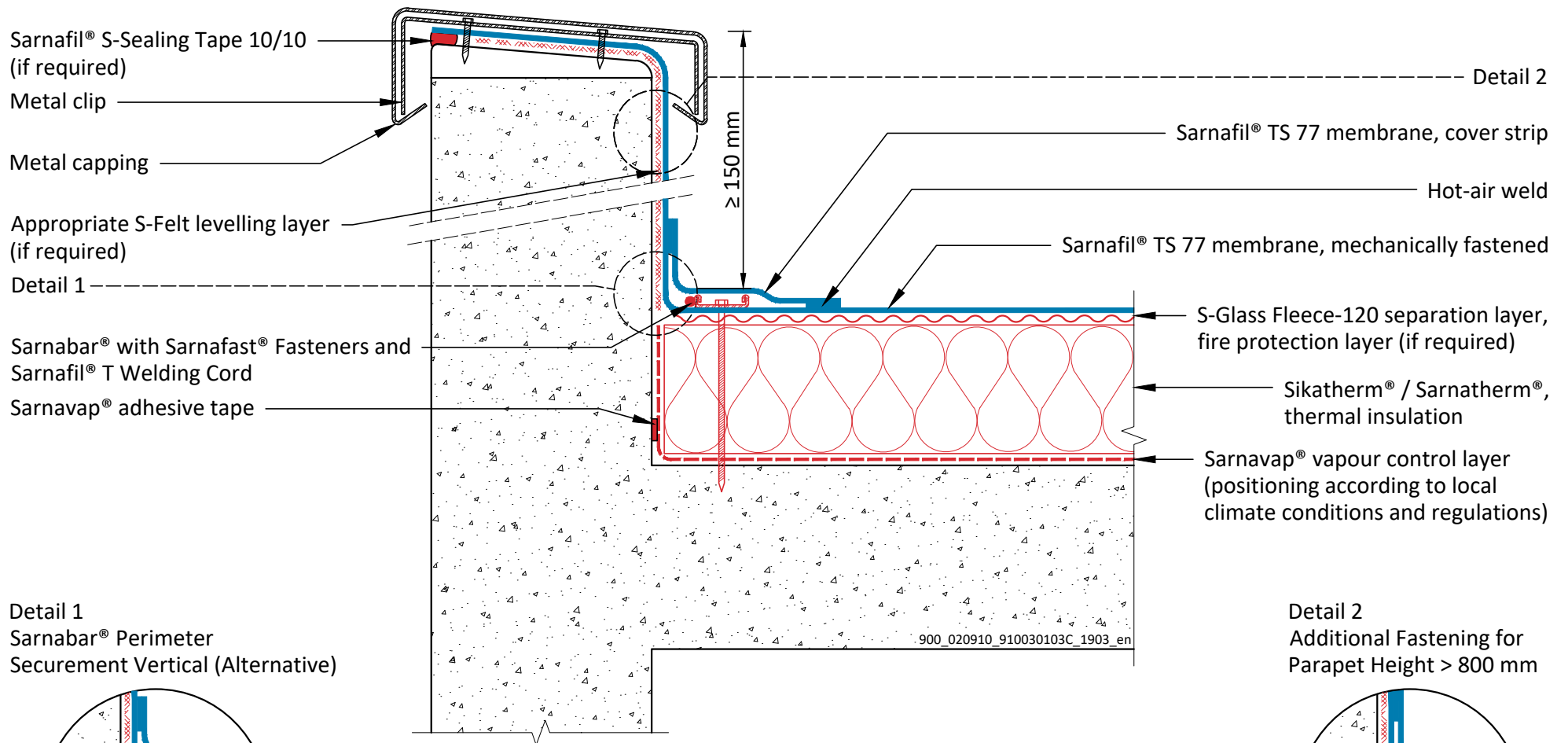
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Sarnafil® S-Sealing Tape 10/10
(if required)

Metal clip

Metal capping

Appropriate S-Felt levelling layer
(if required)

Detail 1

Sarnabar® with Sarnafast® Fasteners and
Sarnafil® T Welding Cord

Sarnavap® adhesive tape

≥ 150 mm

Sarnafil® TS 77 membrane, cover strip

Hot-air weld

Sarnafil® TS 77 membrane, mechanically fastened

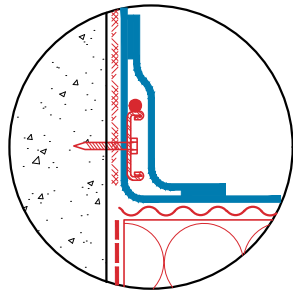
S-Glass Fleece-120 separation layer,
fire protection layer (if required)

Sikatherm® / Sarnatherm®,
thermal insulation

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

Detail 1

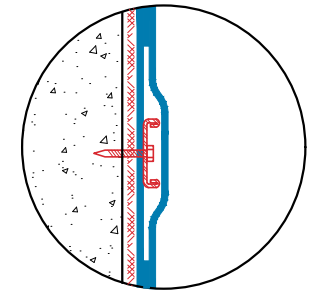
Sarnabar® Perimeter
Securement Vertical (Alternative)



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Detail 2

Additional Fastening for
Parapet Height > 800 mm



**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**
SF TPO - 003.01.03 - Parapet - Metal Capping - Mechanically Fastened on Concrete Parapet
Sika General Detail. Template for translation.

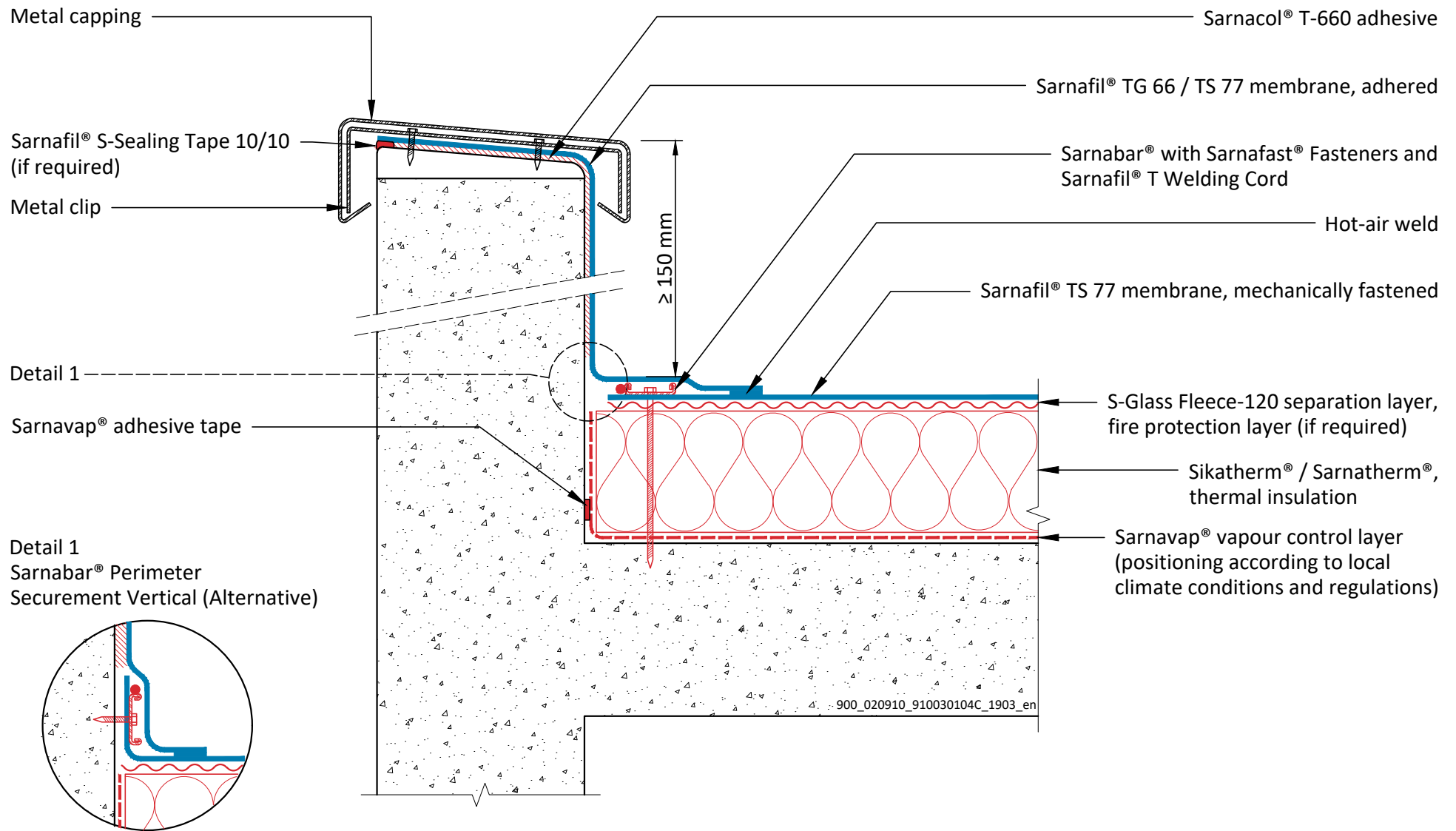
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**
SF TPO - 003.01.04 - Parapet - Metal Capping - Adhered on Concrete Parapet
Sika General Detail. Template for translation.

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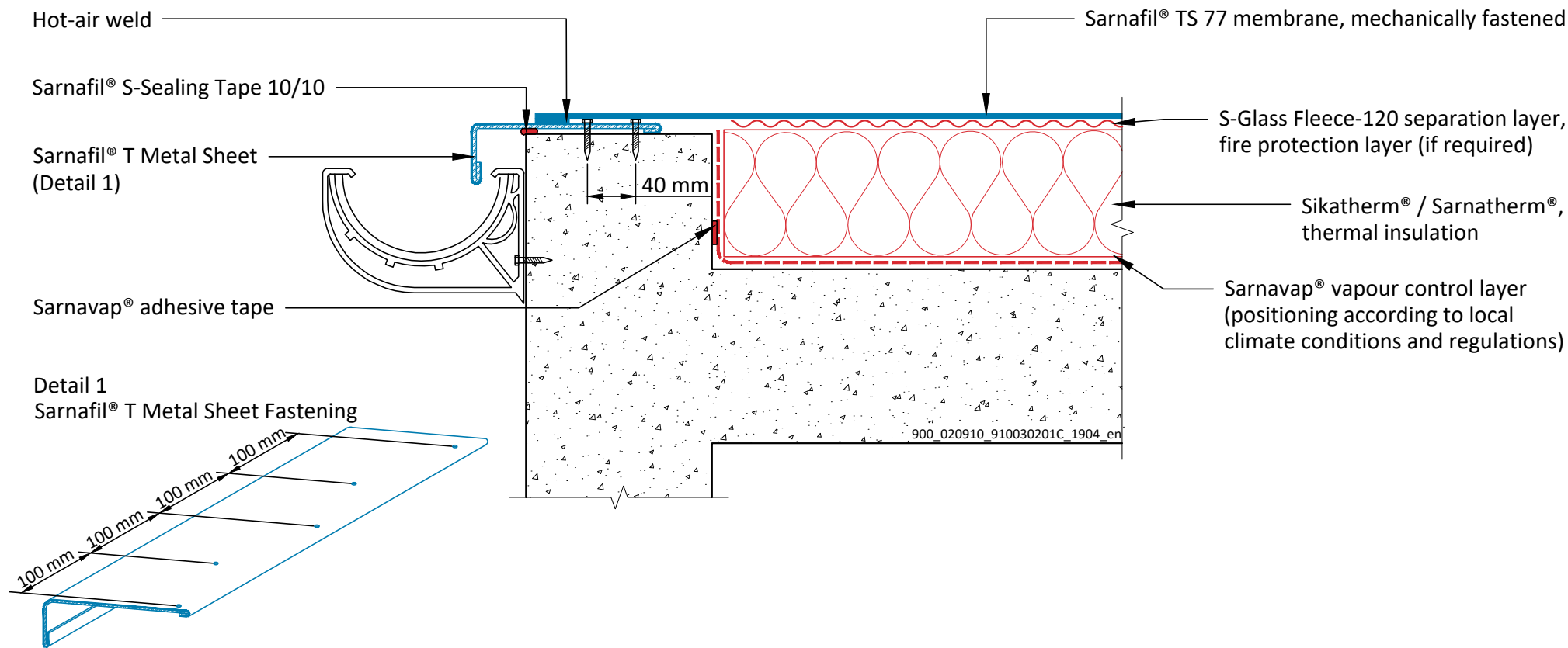
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.02.01 - Roof Edge Termination with Gutter

Sika General Detail. Template for translation.

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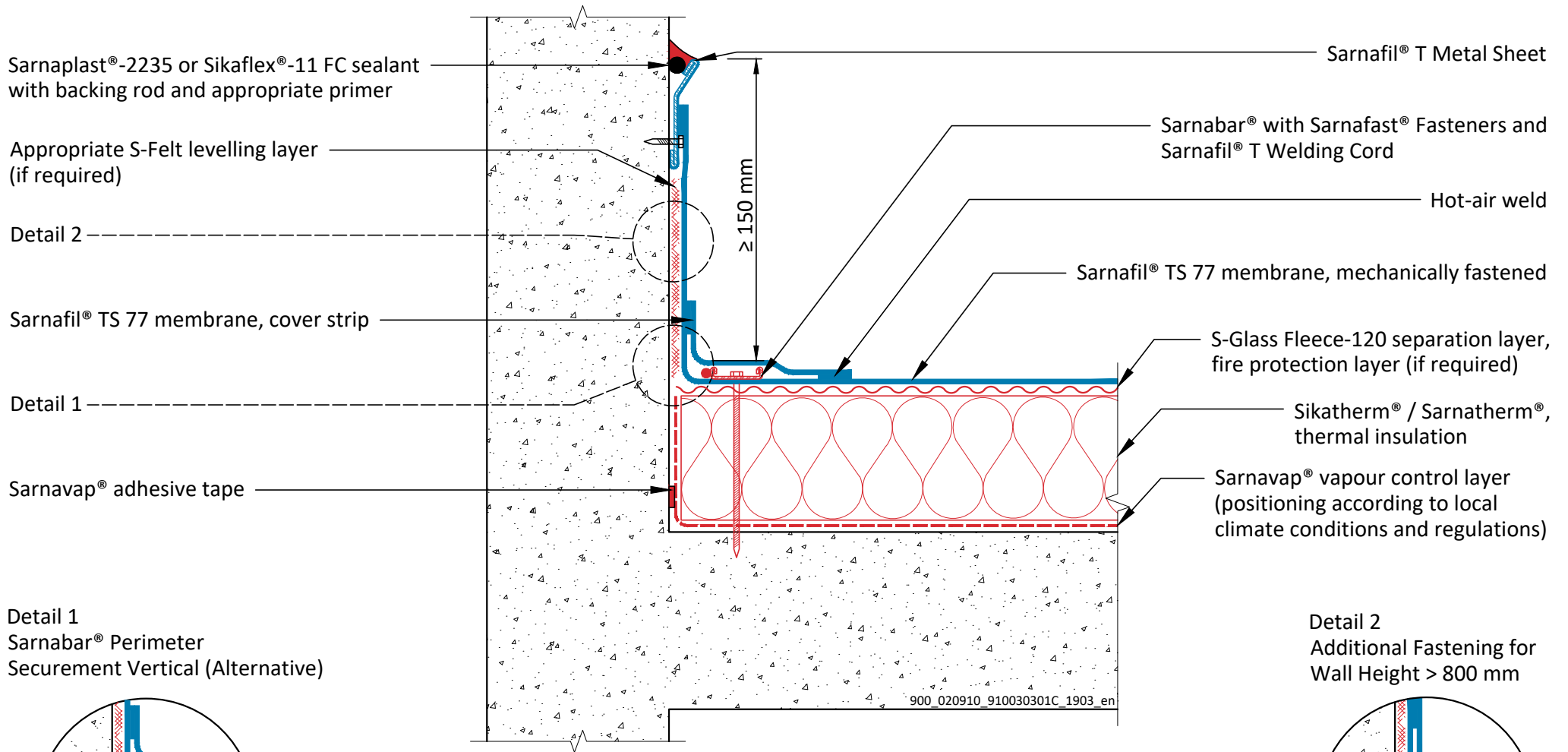
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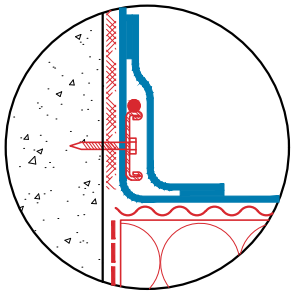


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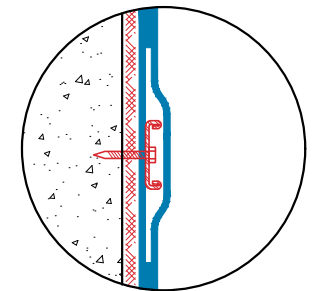
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Detail 1
Sarnabar® Perimeter
Securement Vertical (Alternative)



Detail 2
Additional Fastening for
Wall Height > 800 mm



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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.03.01 - Upstand - Sarnafil® T Metal Sheet - Mechanically Fastened on Concrete Wall

Sika General Detail. Template for translation.

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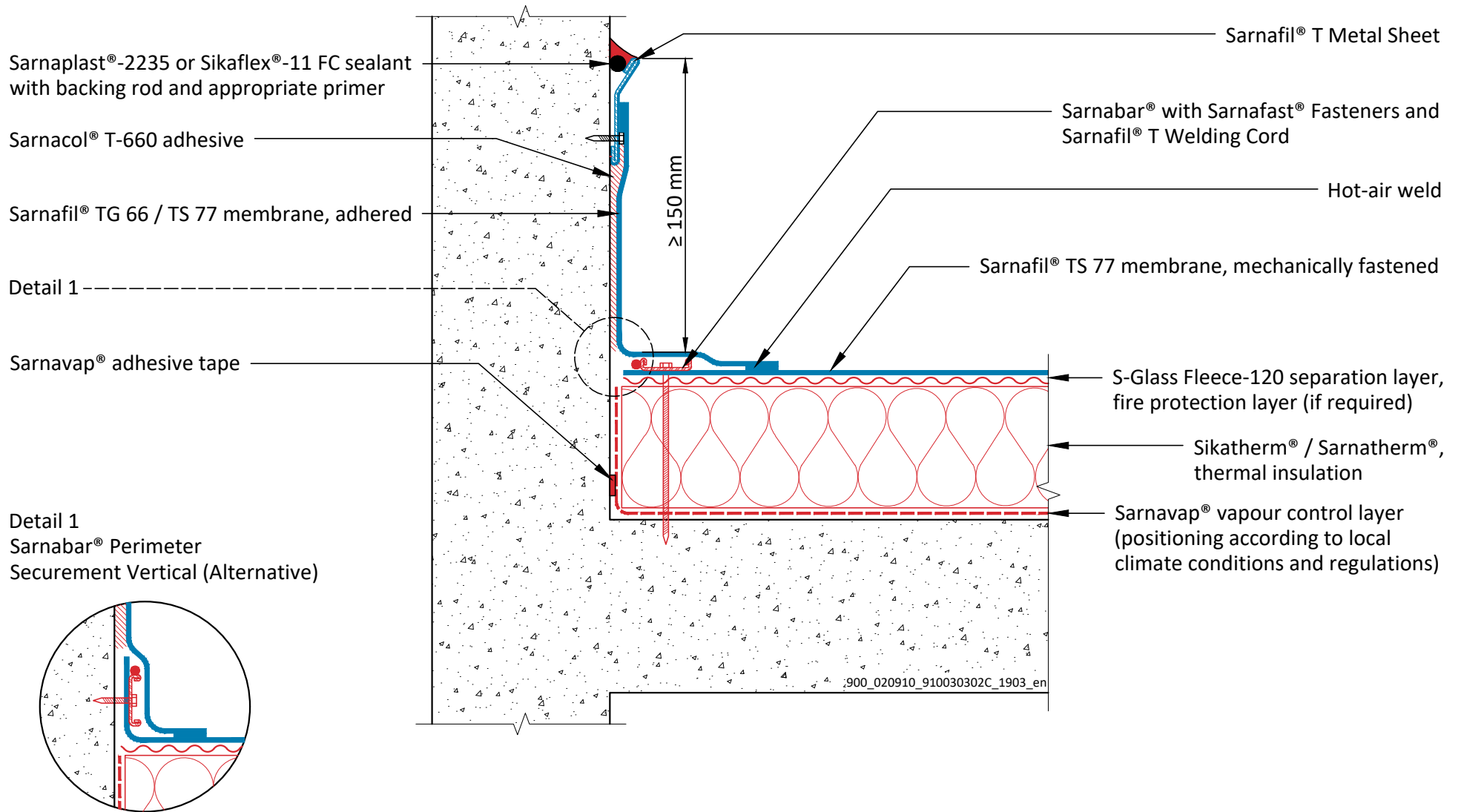
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ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.03.02 - Upstand - Sarnafil® T Metal Sheet - Adhered on Concrete Wall

Sika General Detail. Template for translation.

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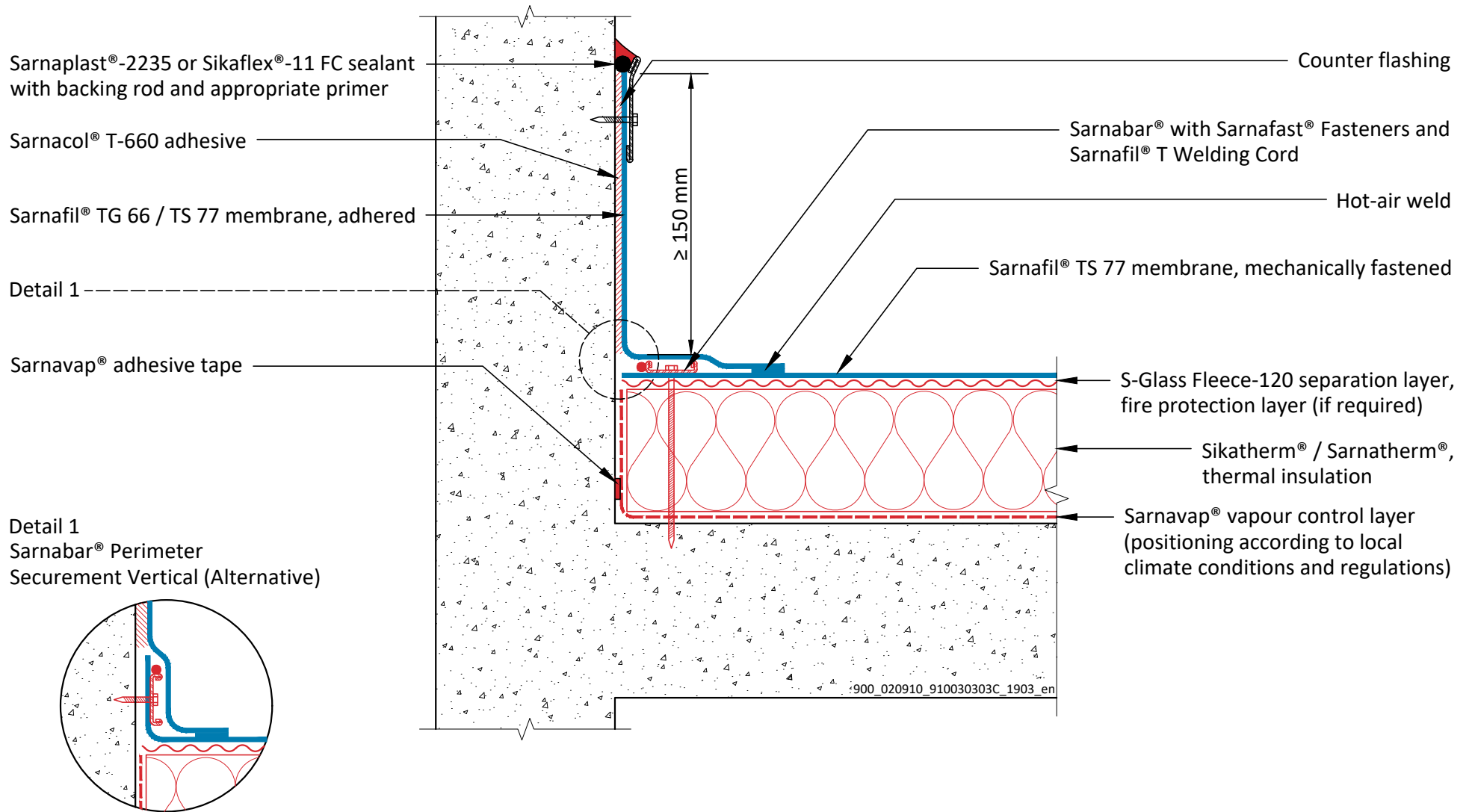
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
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SF TPO - 003.03.03 - Upstand - Counter Flashing - Adhered on Concrete Wall

Sika General Detail. Template for translation.

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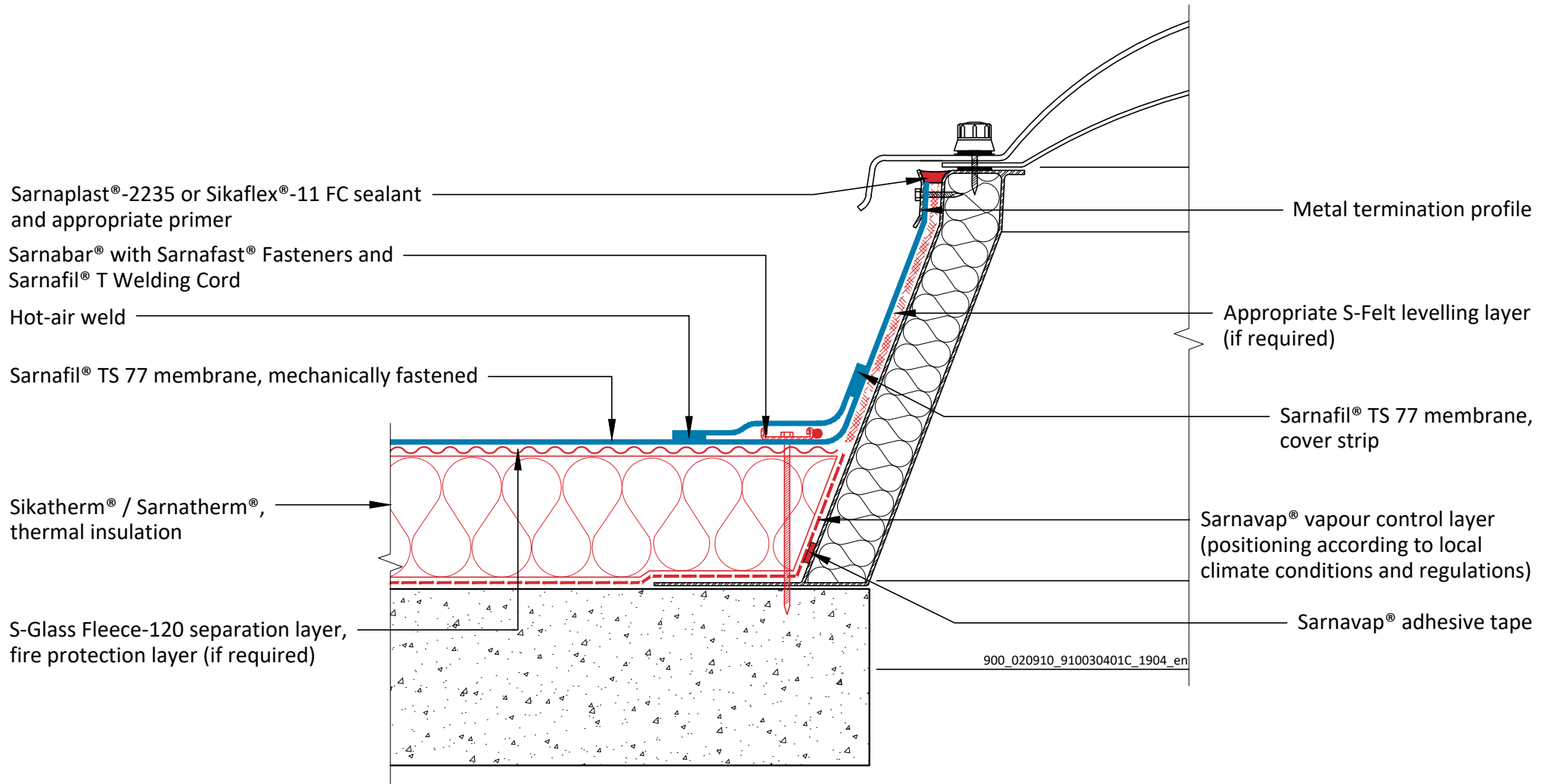
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.04.01 - Skylight - Sealed - Mechanically Fastened on Skylight System

Sika General Detail. Template for translation.

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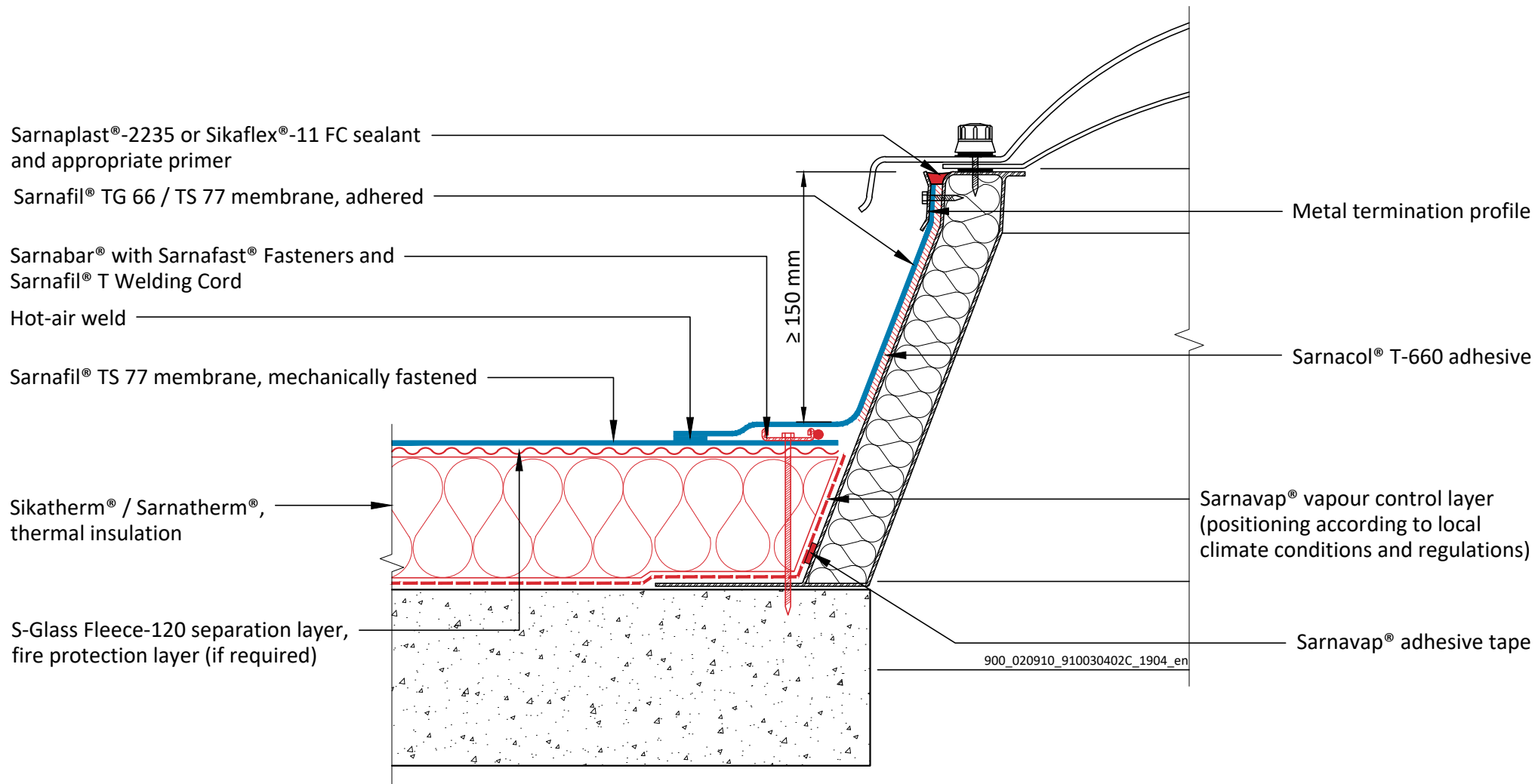
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SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM ON CONCRETE DECK WITH THERMAL INSULATION

SF TPO - 003.04.02 - Skylight - Sealed - Adhered on Skylight System

Sika General Detail. Template for translation.

900_020910_910030402C_1904_en
April 2019

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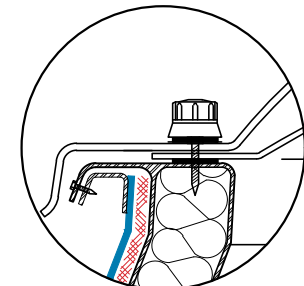
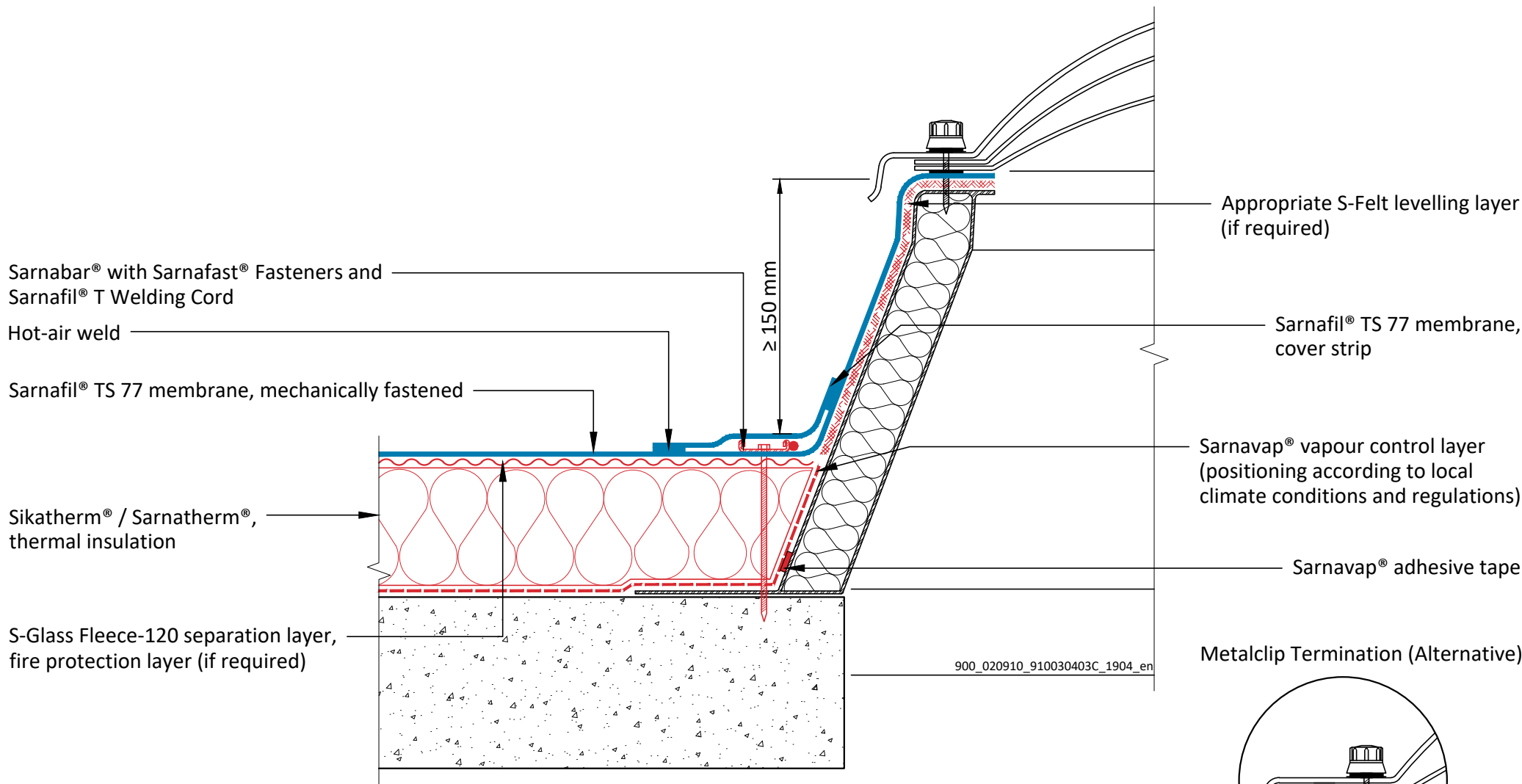
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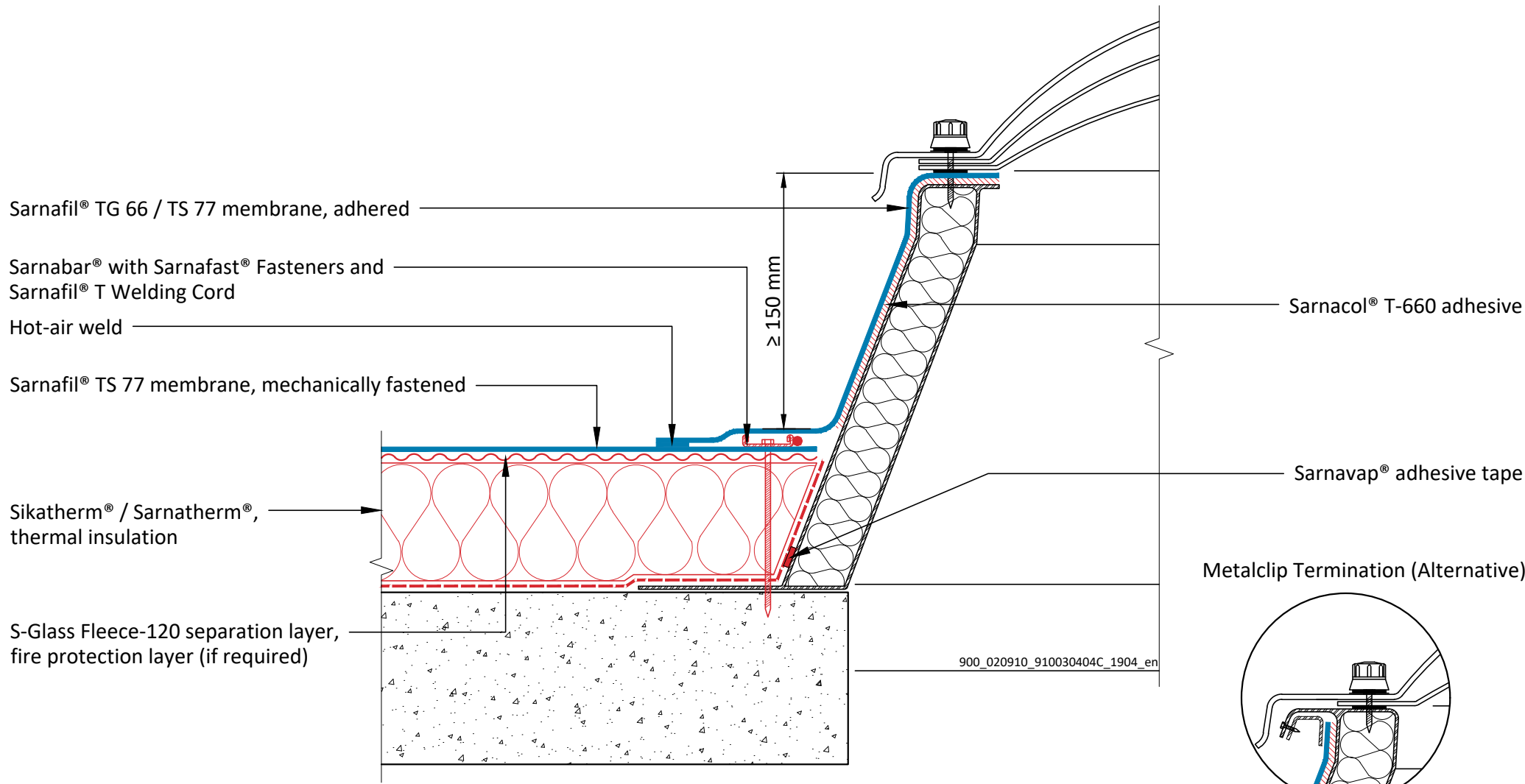
**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**
SF TPO - 003.04.03 - Skylight - Clamped - Mechanically Fastened on Skylight System
Sika General Detail. Template for translation.

900_020910_910030403C_1904_en
April 2019

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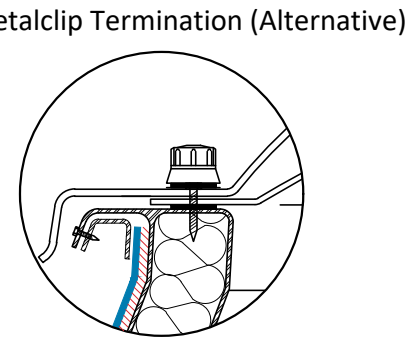
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**
SF TPO - 003.04.04 - Skylight - Clamped - Adhered on Skylight System
Sika General Detail. Template for translation.

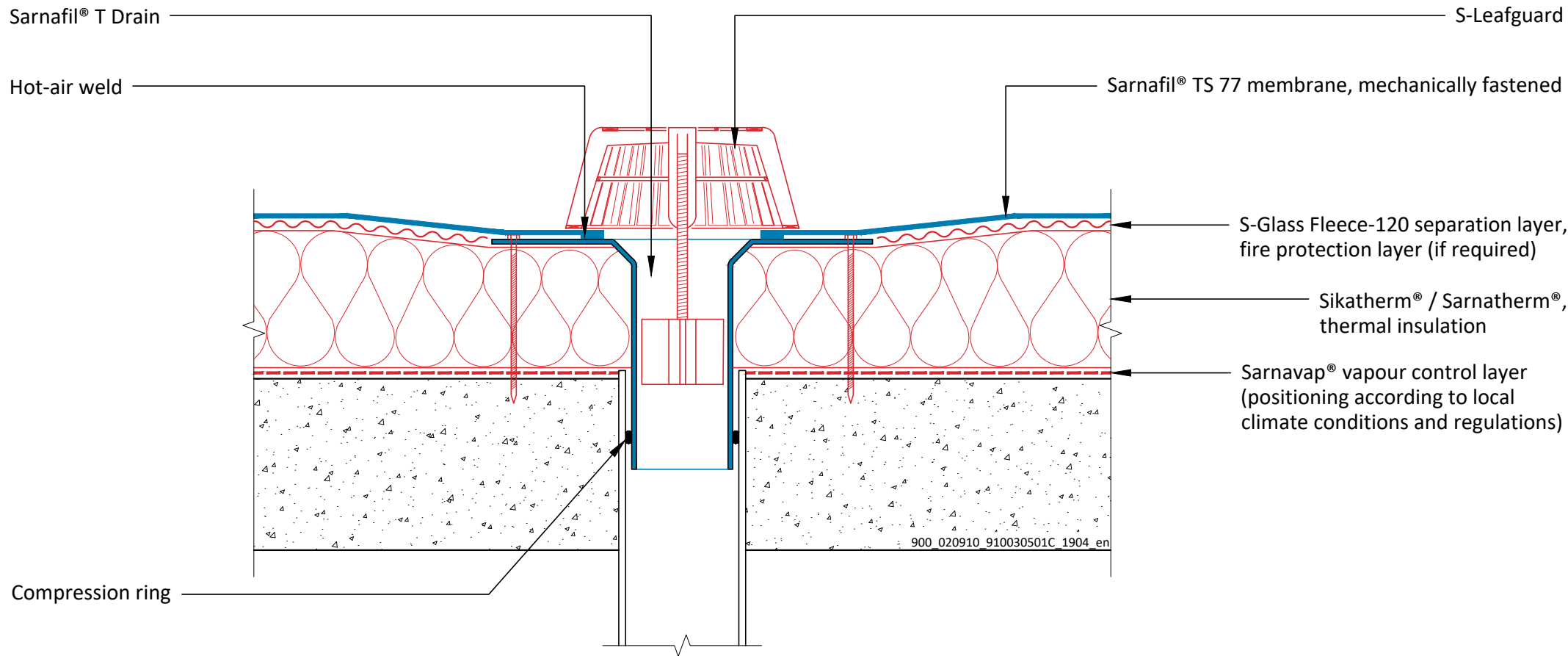
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April 2019

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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.05.01 - Roof Drain (Outlet)

Sika General Detail. Template for translation.

900_020910_910030501C_1904_en

April 2019

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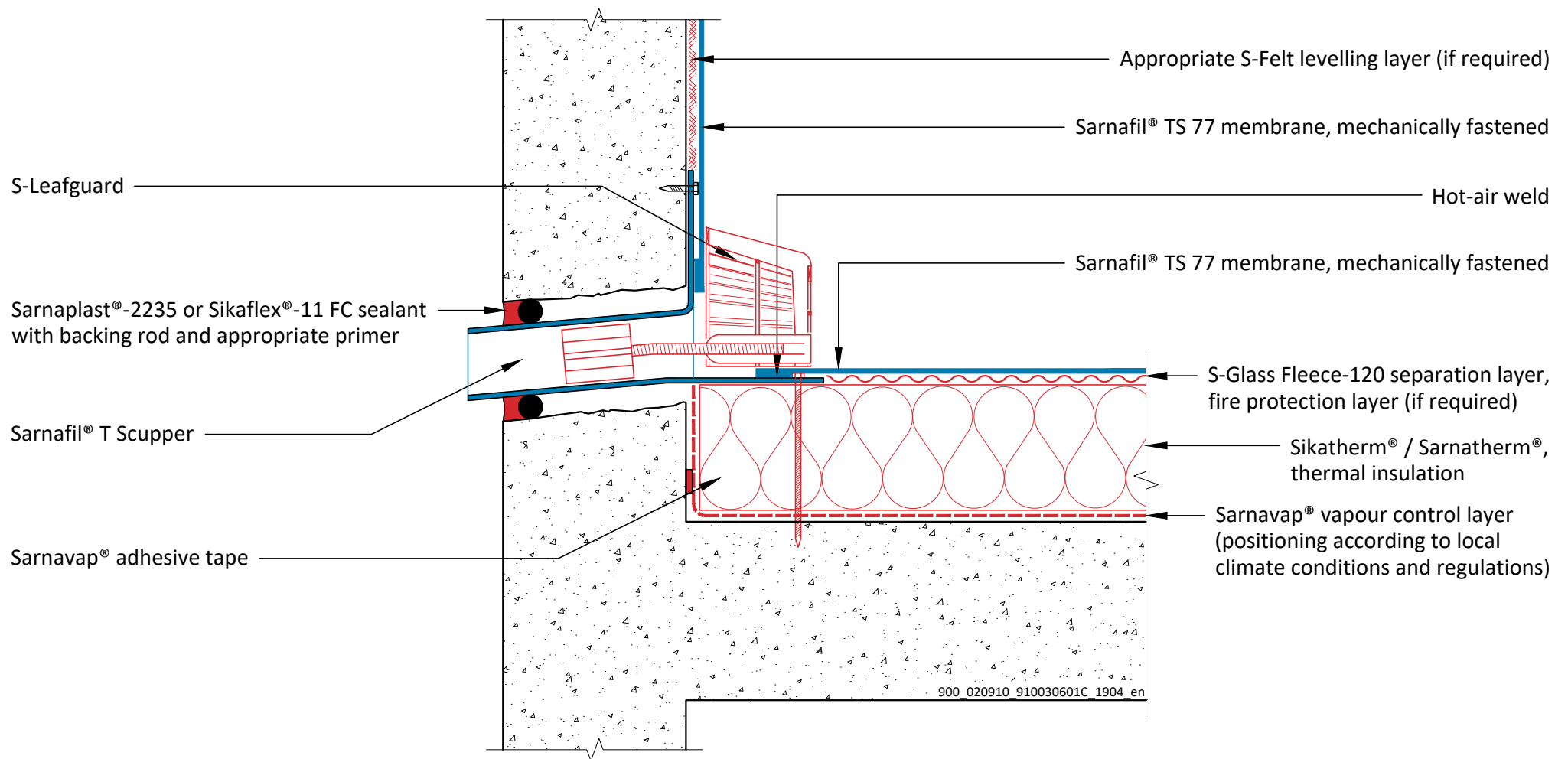
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.06.01 - Scupper - Mechanically Fastened on Concrete Wall

Sika General Detail. Template for translation.

900_020910_910030601C_1904_en
April 2019

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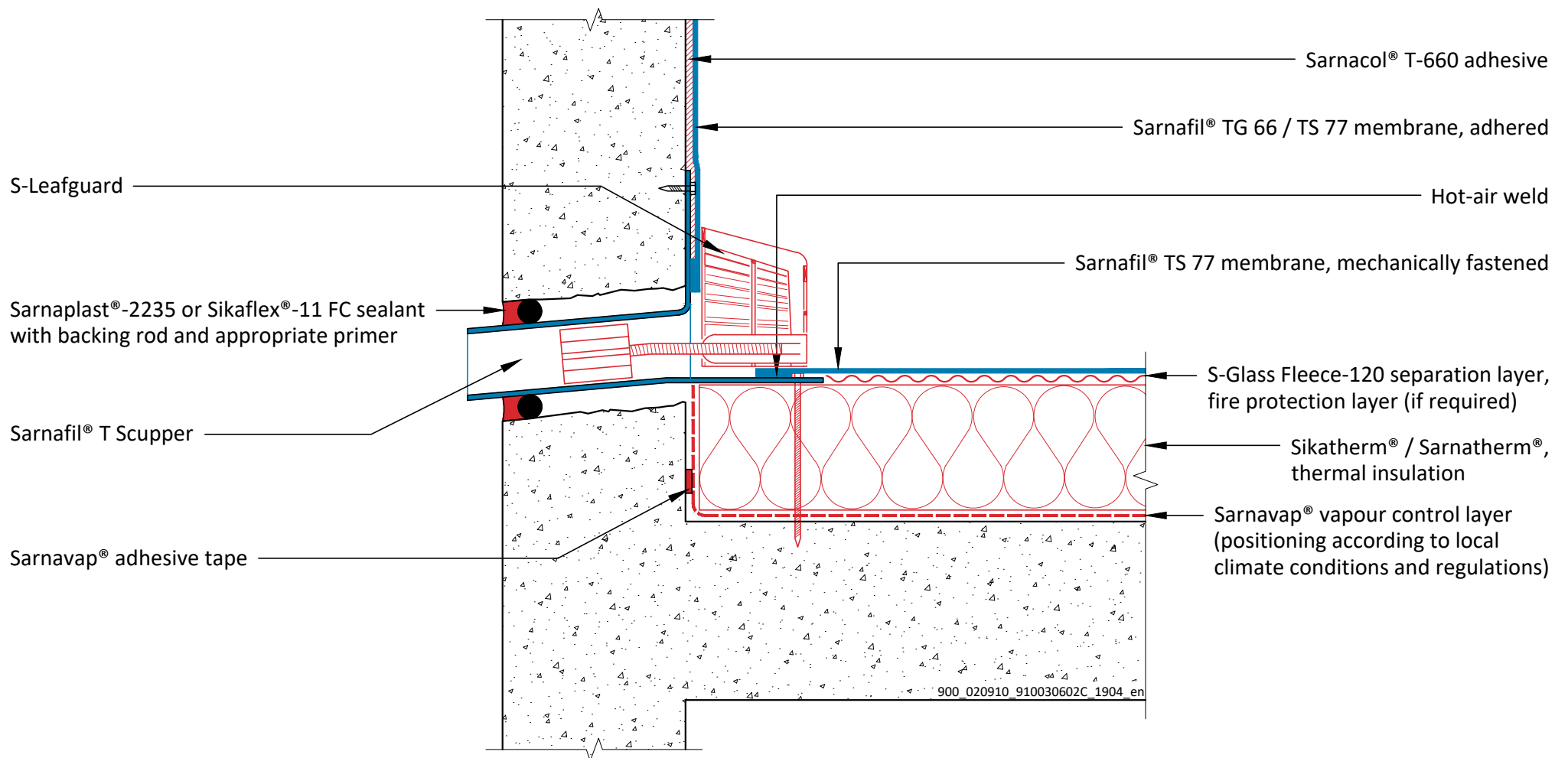
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.06.02 - Scupper - Adhered on Concrete Wall

Sika General Detail. Template for translation.

900_020910_910030602C_1904_en
April 2019

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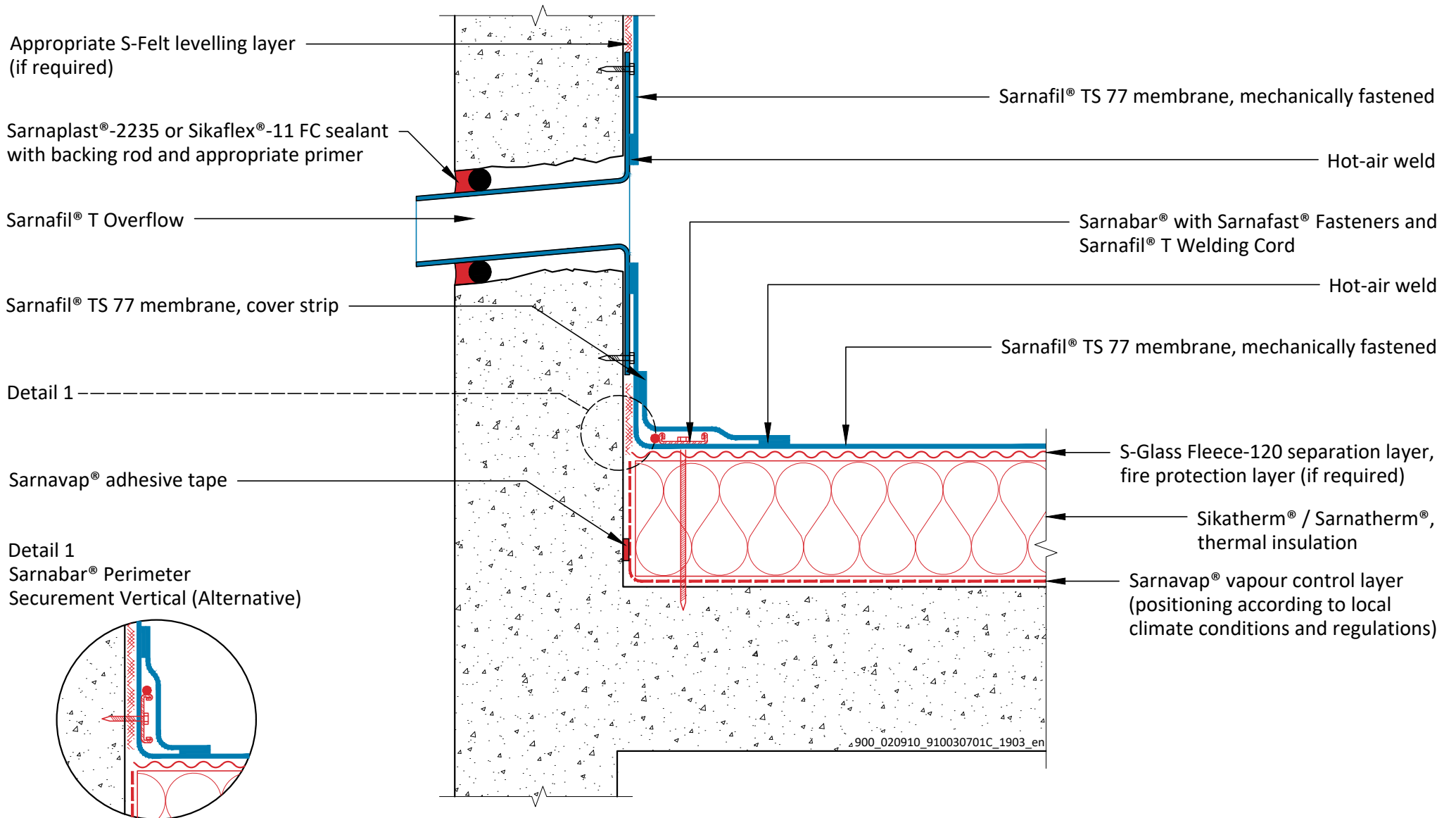
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**
SF TPO - 003.07.01 - Overflow - Mechanically Fastened on Concrete Wall
Sika General Detail. Template for translation.

900_020910_910030701C_1903_en
March 2019

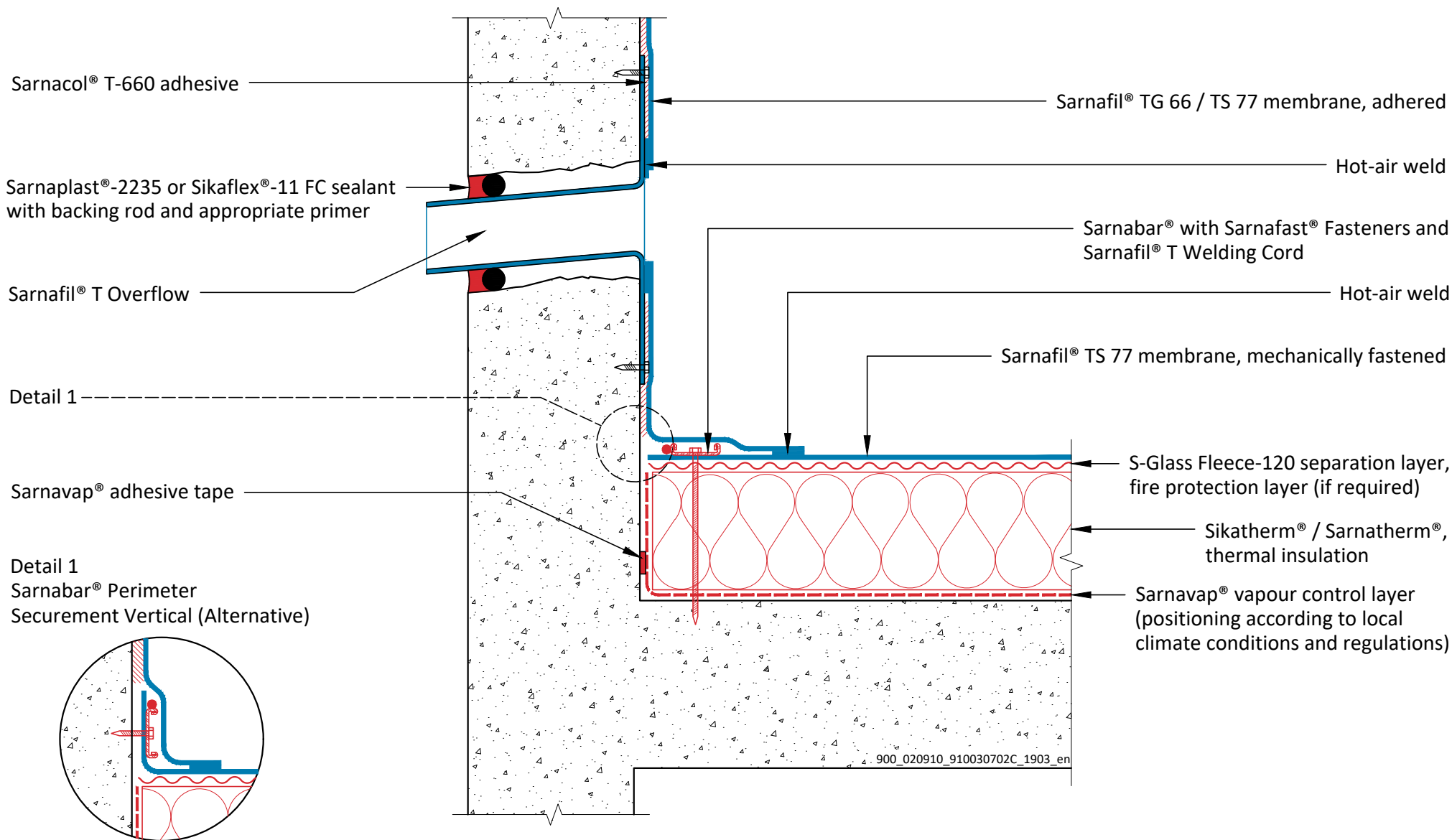
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.07.02 - Overflow - Adhered on Concrete Wall

Sika General Detail. Template for translation.

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900_020910_910030702C_1903_en
March 2019

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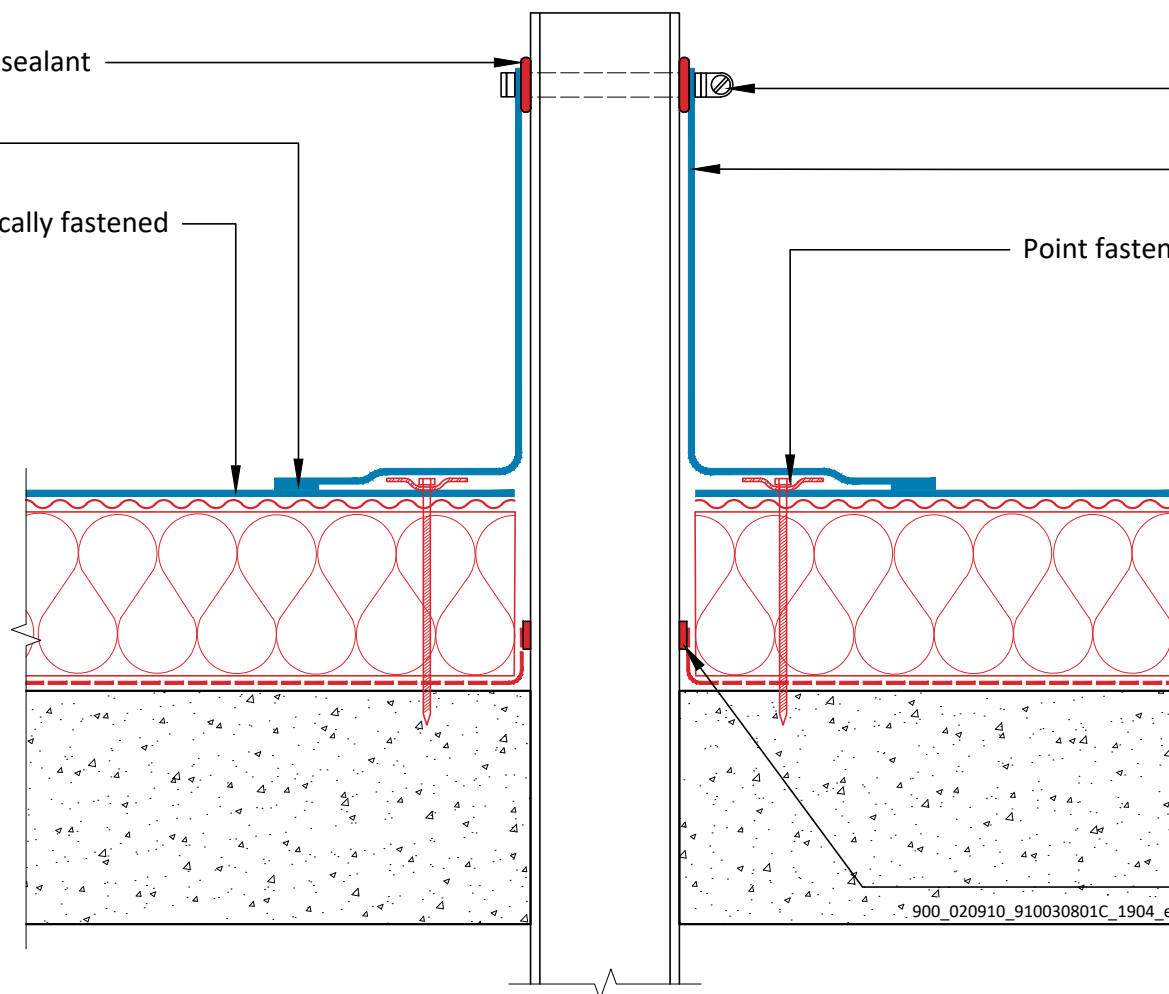
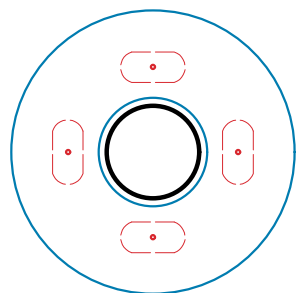


Sarnaplast®-2235 or Sikaflex®-11 FC sealant and appropriate primer

Hot-air weld

Sarnafil® TS 77 membrane, mechanically fastened

Point fastening of vent pipe / post flashing



Stainless steel jubilee clip / shrinking hose

Sarnafil® T Pipe / Post Flashing

Point fastening with Sarnafast® Washers and Fasteners

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)

Sarnavap® adhesive tape

900_020910_910030801C_1904_en

SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM ON CONCRETE DECK WITH THERMAL INSULATION

SF TPO - 003.08.01 - Vent Pipe / Post

Sika General Detail. Template for translation.

900_020910_910030801C_1904_en
April 2019

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Sarnafil® TS 77 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)

Sarnafil® TS 77 membrane, mechanically fastened

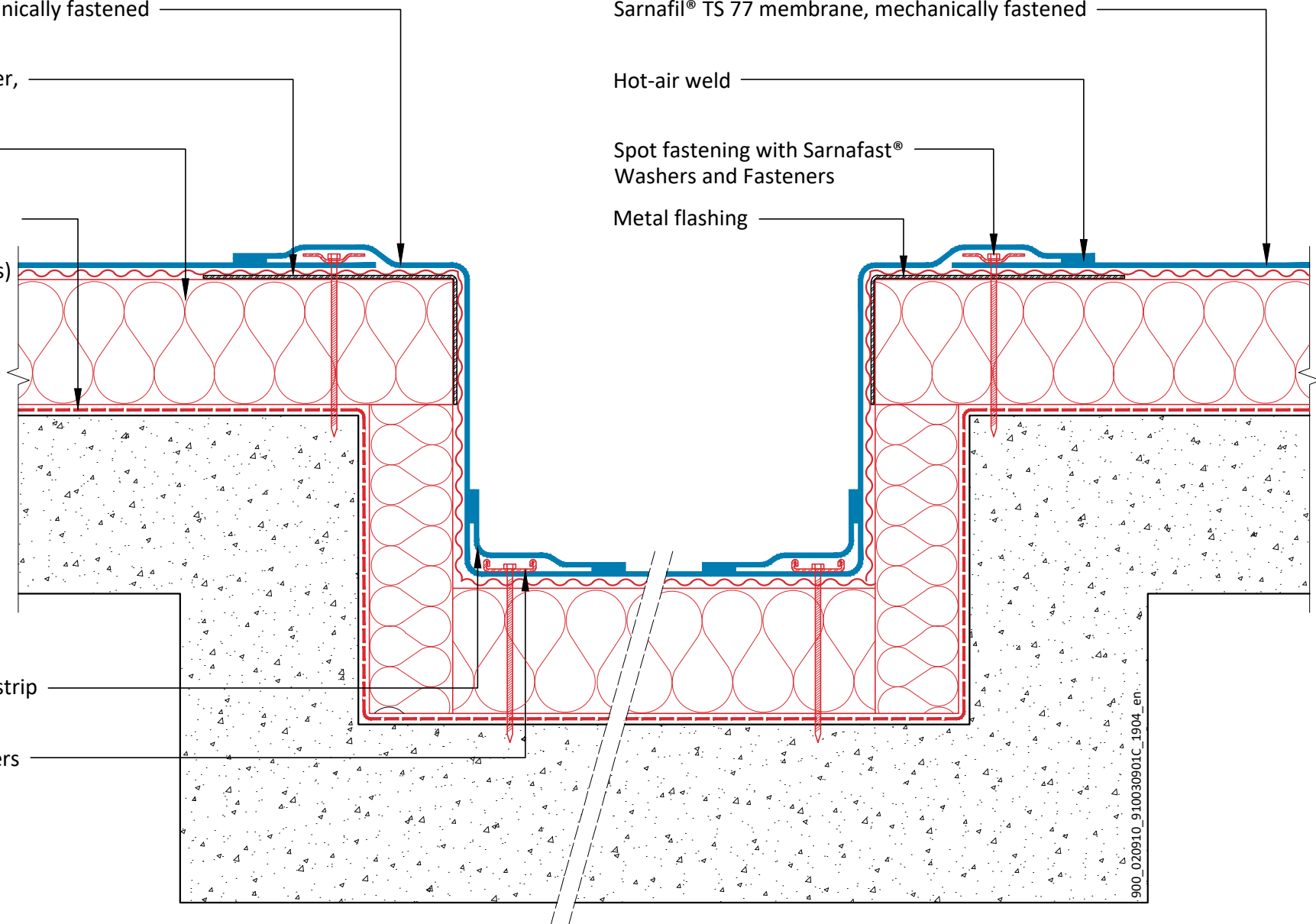
Hot-air weld

Spot fastening with Sarnafast®
Washers and Fasteners

Metal flashing

Sarnafil® TS 77 membrane, cover strip

Sarnabar® with Sarnafast® Fasteners



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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.09.01 - Gutter

Sika General Detail. Template for translation.

900_020910_910030901C_1904_en
April 2019

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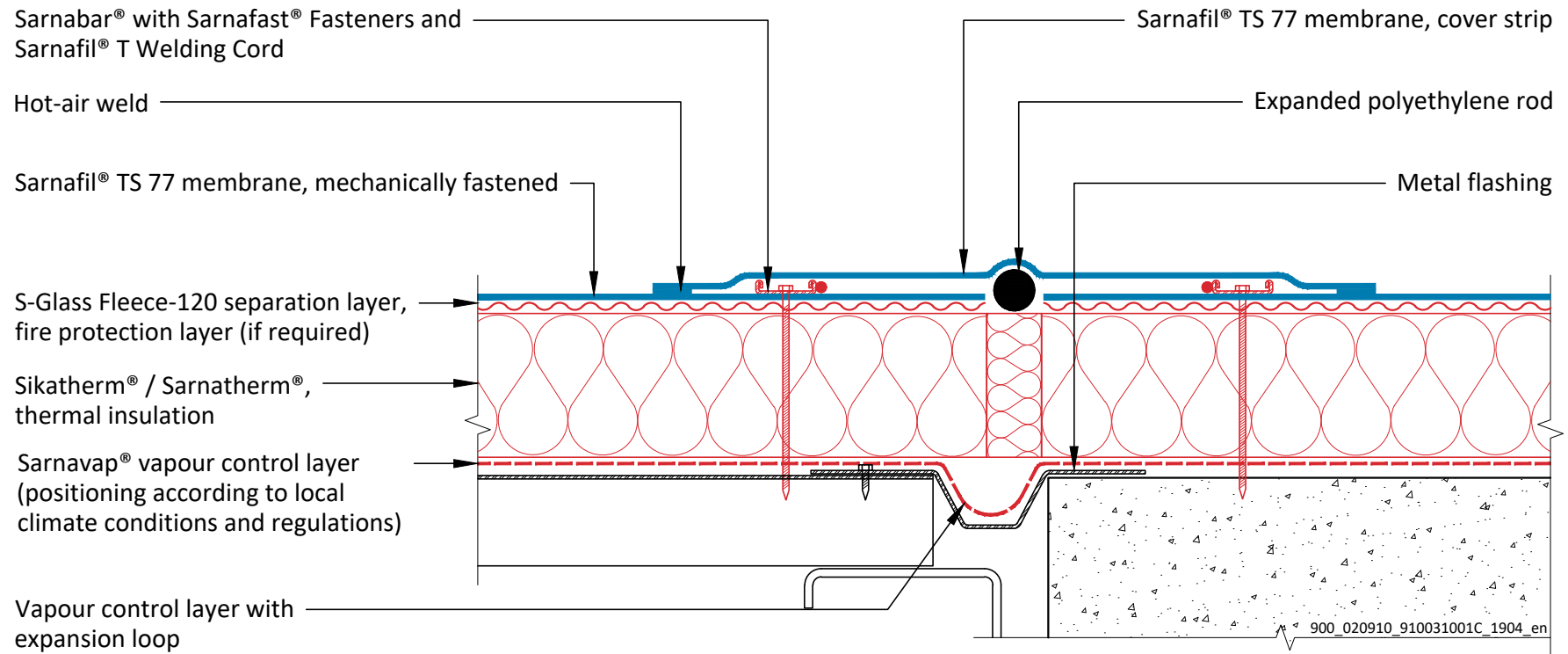
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**SARNAFIL® TPO - MECHANICALLY FASTENED ROOF SYSTEM
ON CONCRETE DECK WITH THERMAL INSULATION**

SF TPO - 003.10.01 - Movement Joint

Sika General Detail. Template for translation.

900_020910_910031001C_1904_en

April 2019

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