

**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
ON CONCRETE DECK WITH THERMAL INSULATION
TECHNICAL DETAILS SPL PVC – 051.**

VALID FOR SIKAPLAN® SGMA AND SIKAPLAN® U

SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION

NUMBERING OF DETAILS

SPL PVC - 051.00.01

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	

SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION

LIST OF DETAILS

SPL PVC - 051.00.01 - Build-up

SPL PVC - 051.01.01 - Parapet - Sikaplan® Metal PVC - Mechanically Fastened on Concrete Parapet

SPL PVC - 051.01.02 - Parapet - Sikaplan® Metal PVC - Adhered on Concrete Parapet

SPL PVC - 051.01.03 - Parapet - Metal Capping - Mechanically Fastened on Concrete Parapet

SPL PVC - 051.01.04 - Parapet - Metal Capping - Adhered on Concrete Parapet

SPL PVC - 051.02.01 - Roof Edge Termination with Gutter

SPL PVC - 051.03.01 - Upstand - Sikaplan® Metal PVC - Mechanically Fastened on Concrete Wall

SPL PVC - 051.03.02 - Upstand - Sikaplan® Metal PVC - Adhered on Concrete Wall

SPL PVC - 051.03.03 - Upstand - Counter Flashing - Adhered on Concrete Wall

SPL PVC - 051.04.01 - Skylight - Sealed - Mechanically Fastened on Skylight System

SPL PVC - 051.04.02 - Skylight - Sealed - Adhered on Skylight System

SPL PVC - 051.04.03 - Skylight - Clamped - Mechanically Fastened on Skylight System

SPL PVC - 051.04.04 - Skylight - Clamped - Adhered on Skylight System

SPL PVC - 051.05.01 - Roof Drain (Outlet)

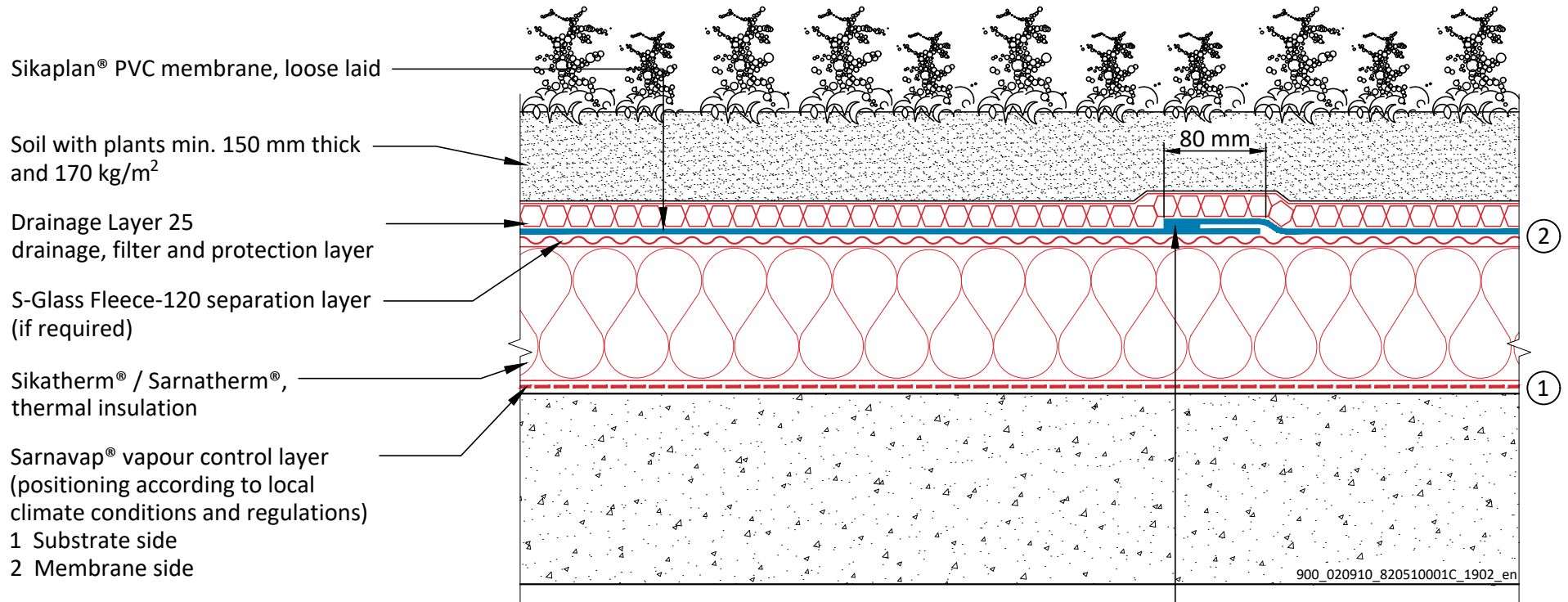
SPL PVC - 051.06.01 - Scupper - Mechanically Fastened on Concrete Wall

SPL PVC - 051.06.02 - Scupper - Adhered on Concrete Wall

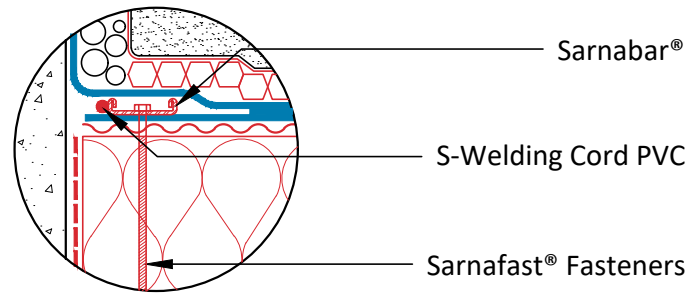
SPL PVC - 051.07.01 - Overflow - Mechanically Fastened on Concrete Wall

SPL PVC - 051.07.02 - Overflow - Adhered on Concrete Wall

SPL PVC - 051.08.01 - Vent Pipe / Post



Sarnabar® Perimeter Securement



Suitable for roof systems without slope

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

SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION

SPL PVC - 051.00.01 - Build-up
 Sika General Detail. Template for translation.

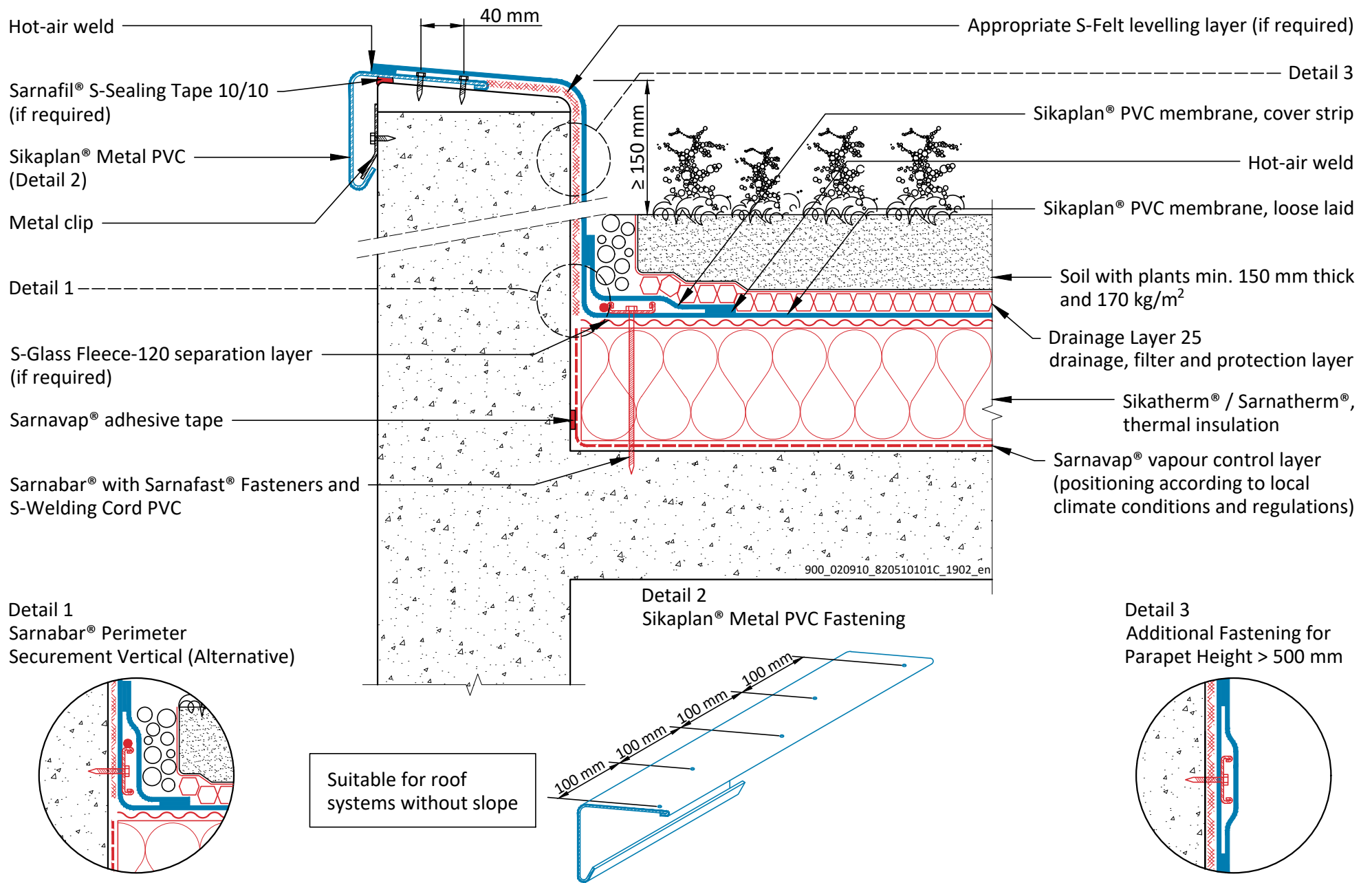
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 February 2019

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ON CONCRETE DECK WITH THERMAL INSULATION**

SPL PVC - 051.01.01 - Parapet - Sikaplan® Metal PVC - Mechanically Fastened on Concrete Parapet

Sika General Detail. Template for translation.

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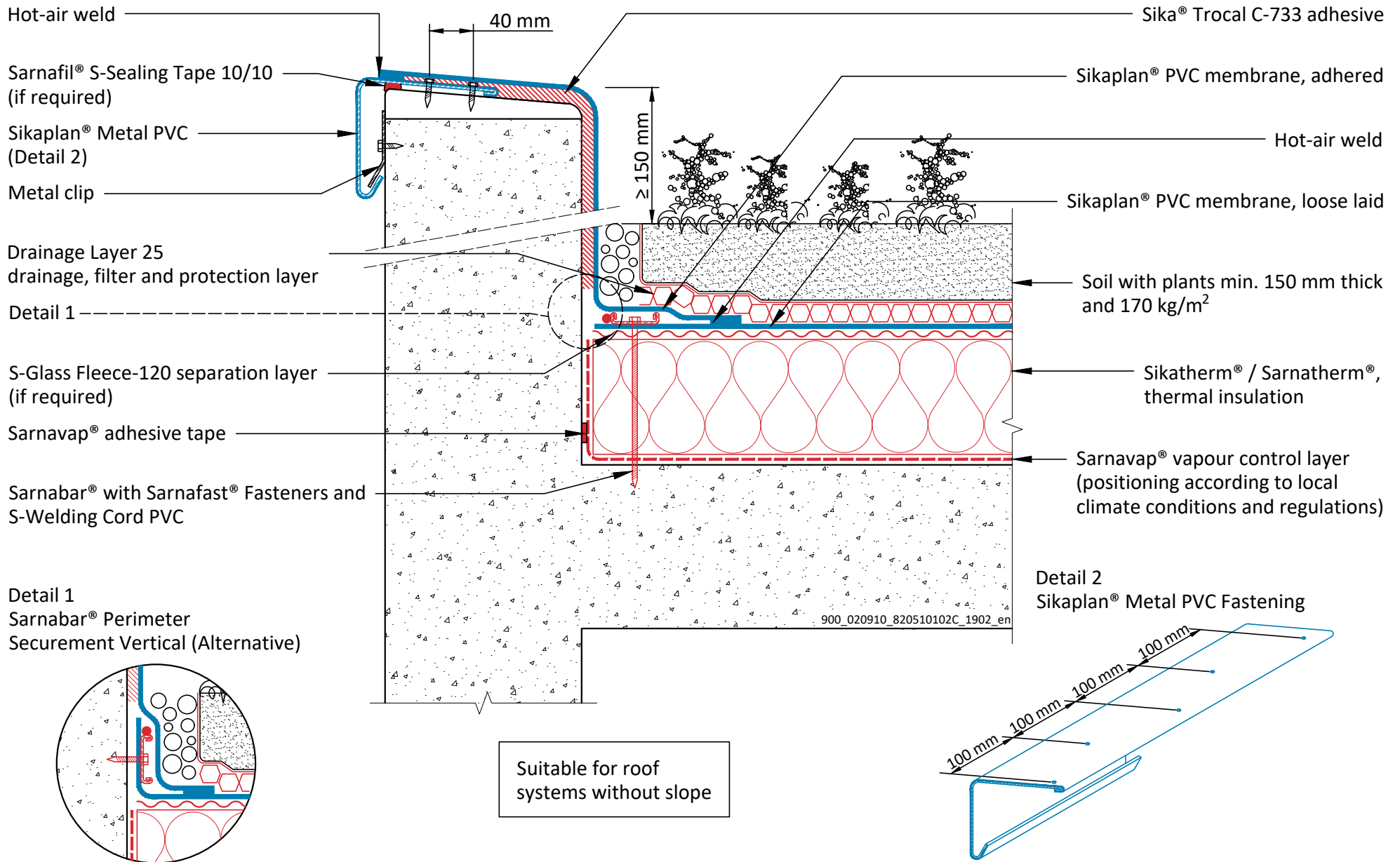
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SPL PVC - 051.01.02 - Parapet - Sikaplan® Metal PVC - Adhered on Concrete Parapet

Sika General Detail. Template for translation.

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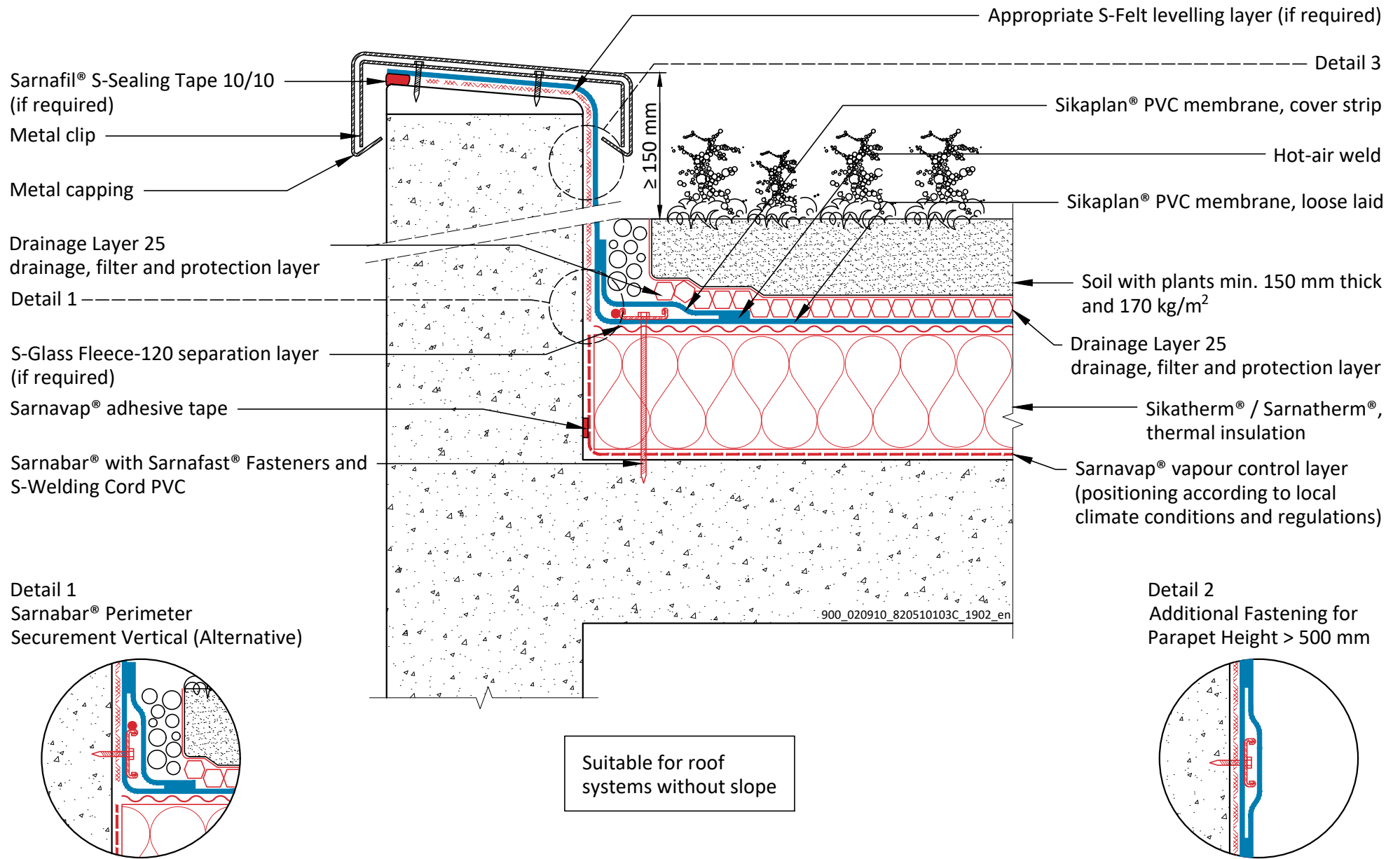
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**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
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SPL PVC - 051.01.03 - Parapet - Metal Capping - Mechanically Fastened on Concrete Parapet

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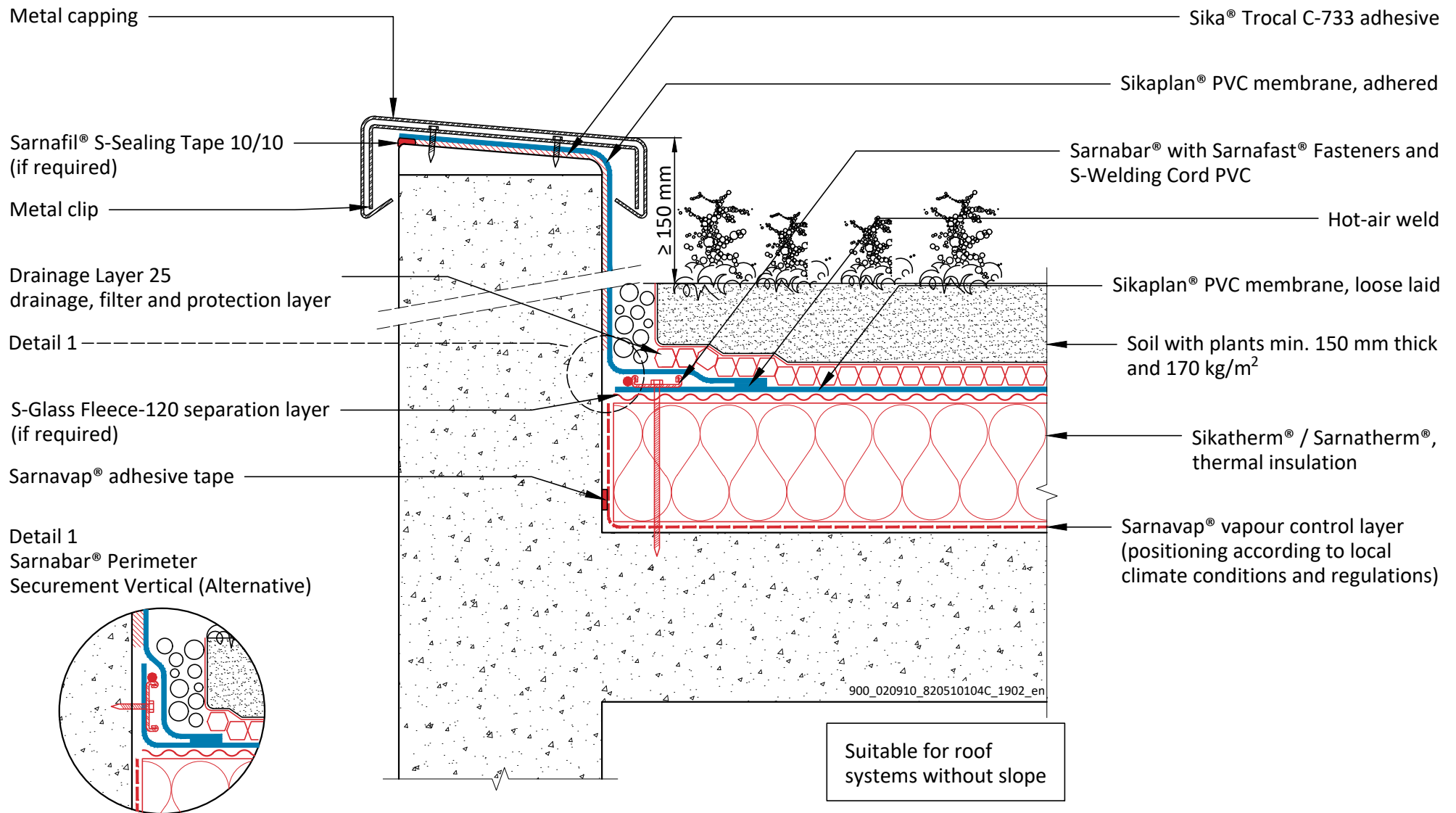
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SPL PVC - 051.01.04 - Parapet - Metal Capping - Adhered on Concrete Parapet

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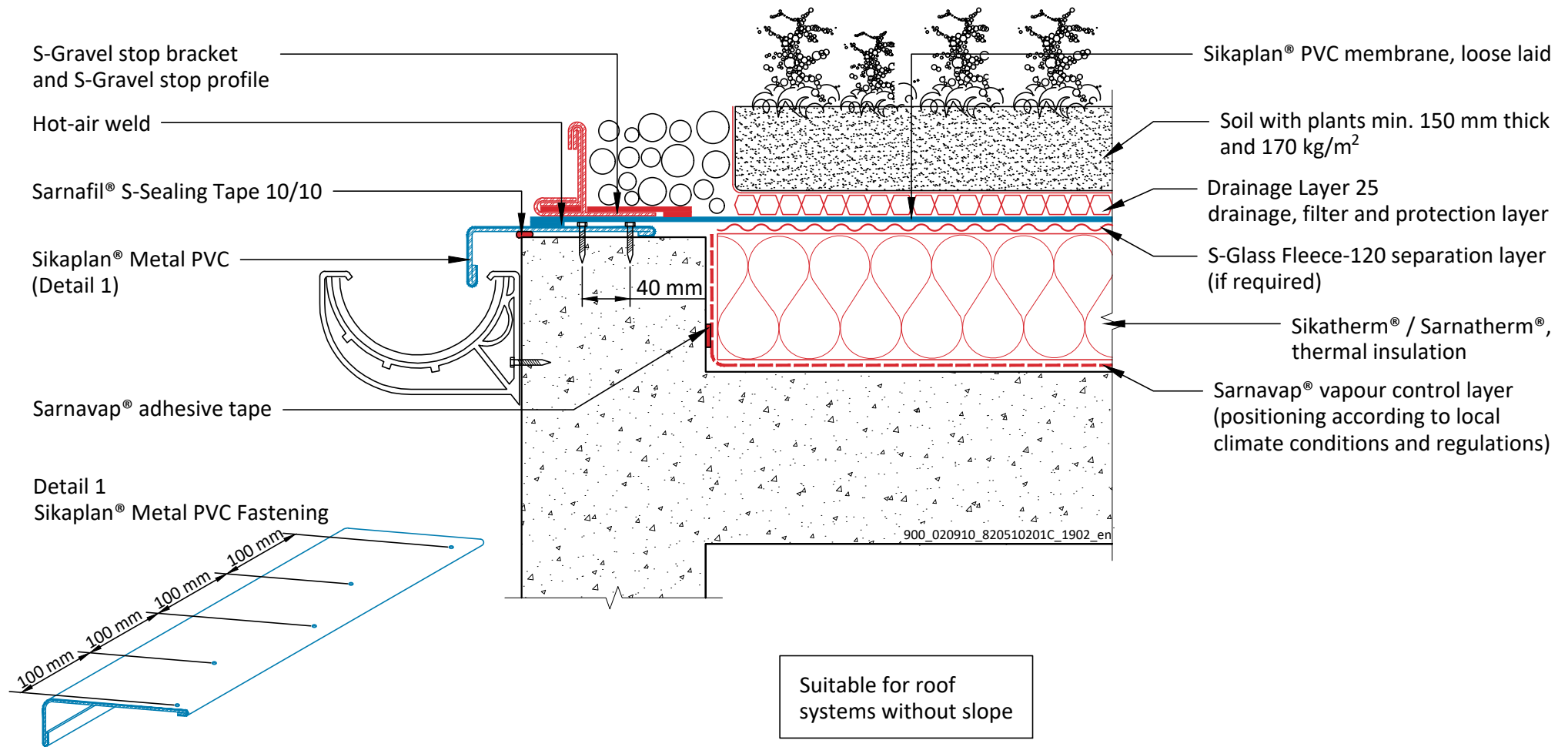
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SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION

SPL PVC - 051.02.01 - Roof Edge Termination with Gutter

Sika General Detail. Template for translation.

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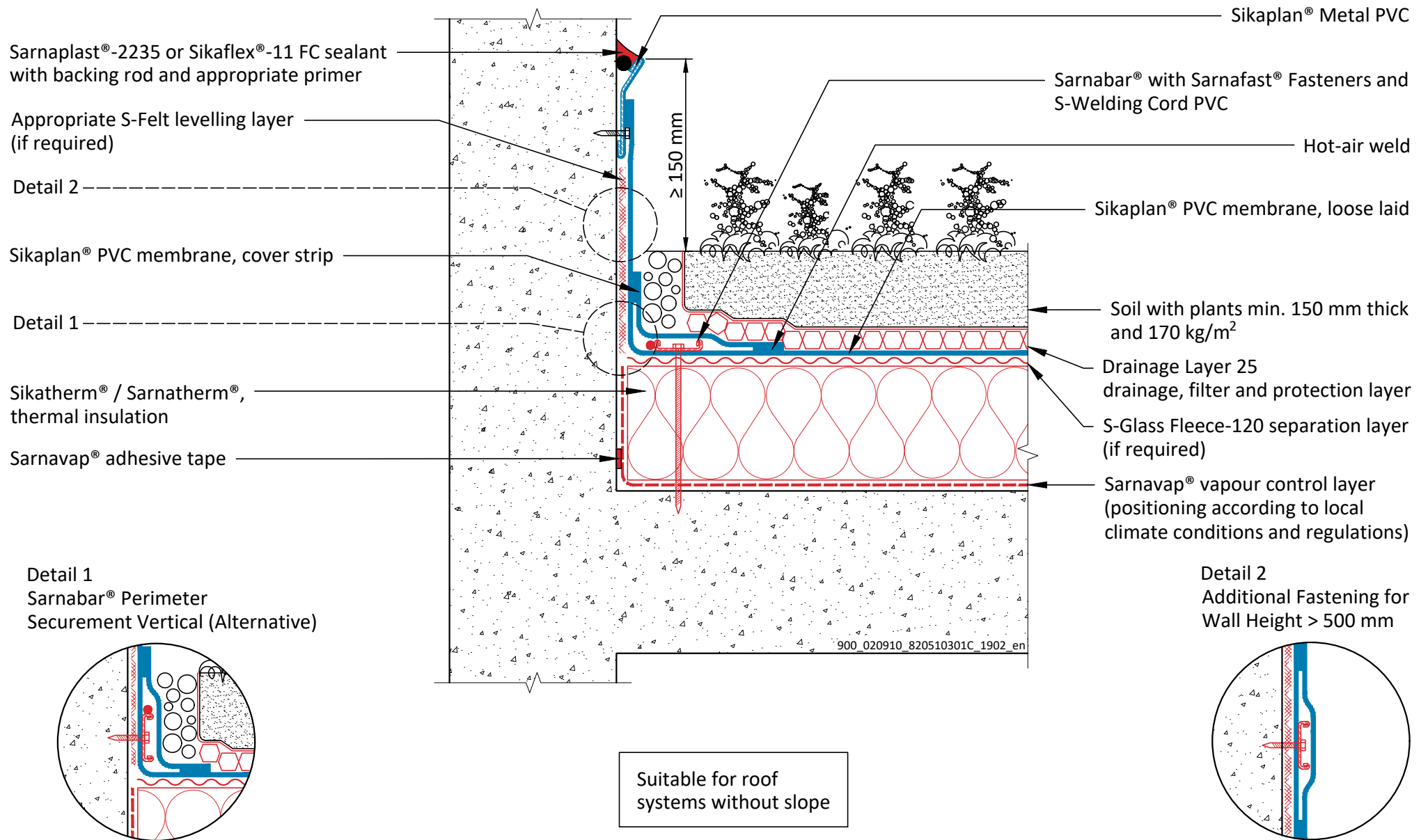
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**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
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SPL PVC - 051.03.01 - Upstand - Sikaplan® Metal PVC - Mechanically Fastened on Concrete Wall

Sika General Detail. Template for translation.

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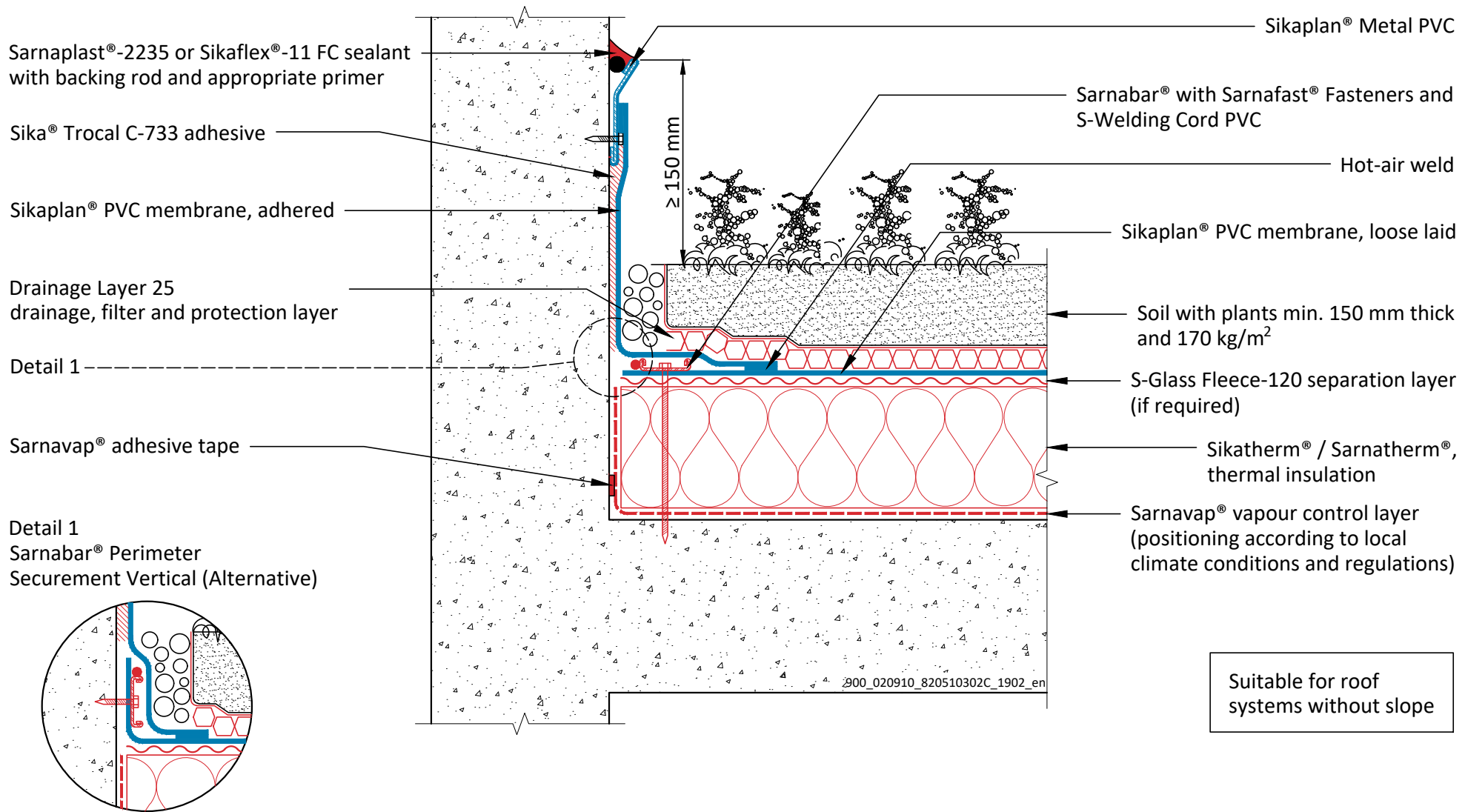
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Sarnaplast®-2235 or Sikaflex®-11 FC sealant with backing rod and appropriate primer

Sika® Trocal C-733 adhesive

Sikaplan® PVC membrane, adhered

Drainage Layer 25 drainage, filter and protection layer

Detail 1

Sarnavap® adhesive tape

Detail 1
Sarnabar® Perimeter Securement Vertical (Alternative)

Sikaplan® Metal PVC

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

Hot-air weld

Sikaplan® PVC membrane, loose laid

Soil with plants min. 150 mm thick and 170 kg/m²

S-Glass Fleece-120 separation layer (if required)

Sikatherm® / Sarnatherm®, thermal insulation

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

Suitable for roof systems without slope

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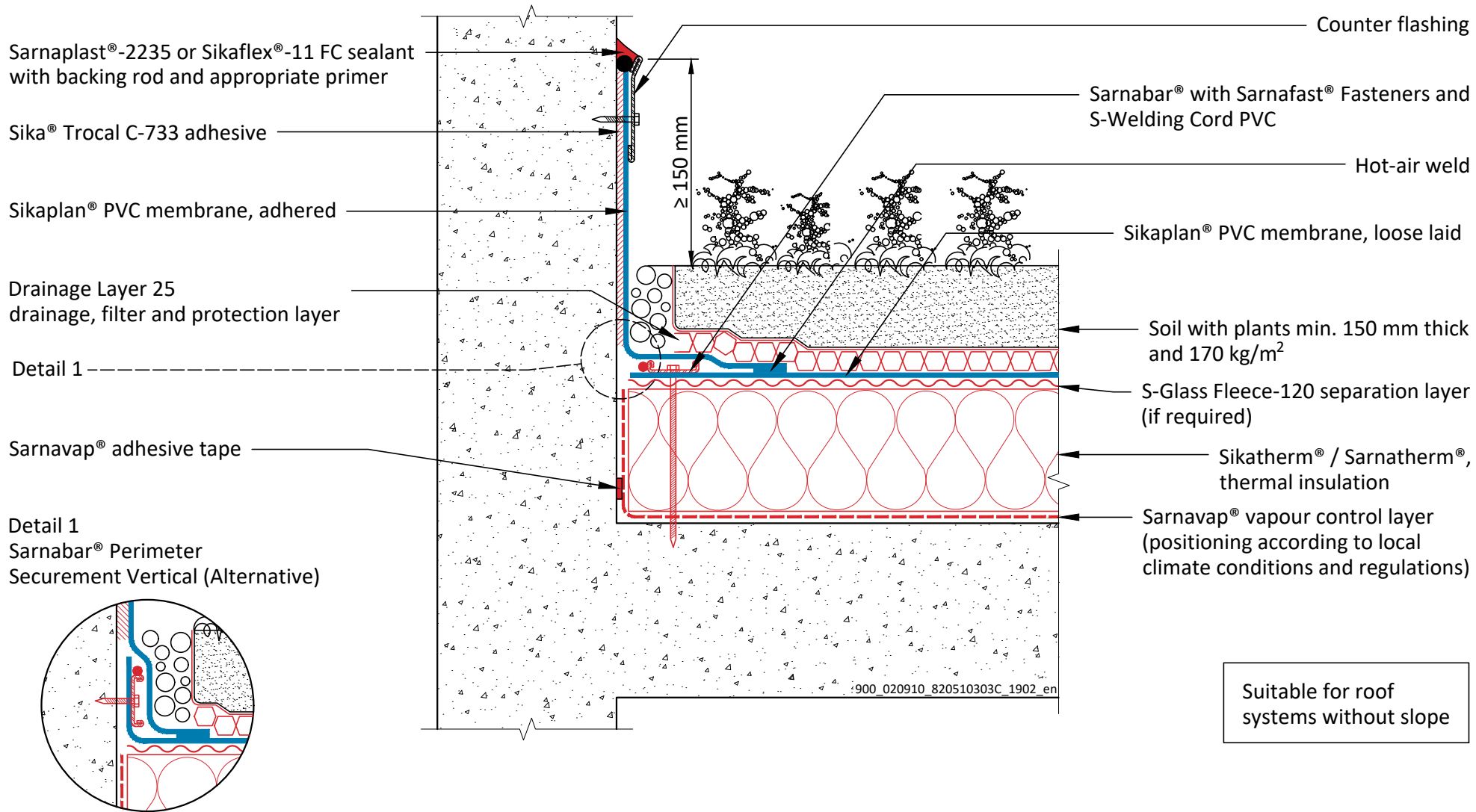
SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION
 SPL PVC - 051.03.02 - Upstand - Sikaplan® Metal PVC - Adhered on Concrete Wall
 Sika General Detail. Template for translation.

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**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
ON CONCRETE DECK WITH THERMAL INSULATION**

SPL PVC - 051.03.03 - Upstand - Counter Flashing - Adhered on Concrete Wall

Sika General Detail. Template for translation.

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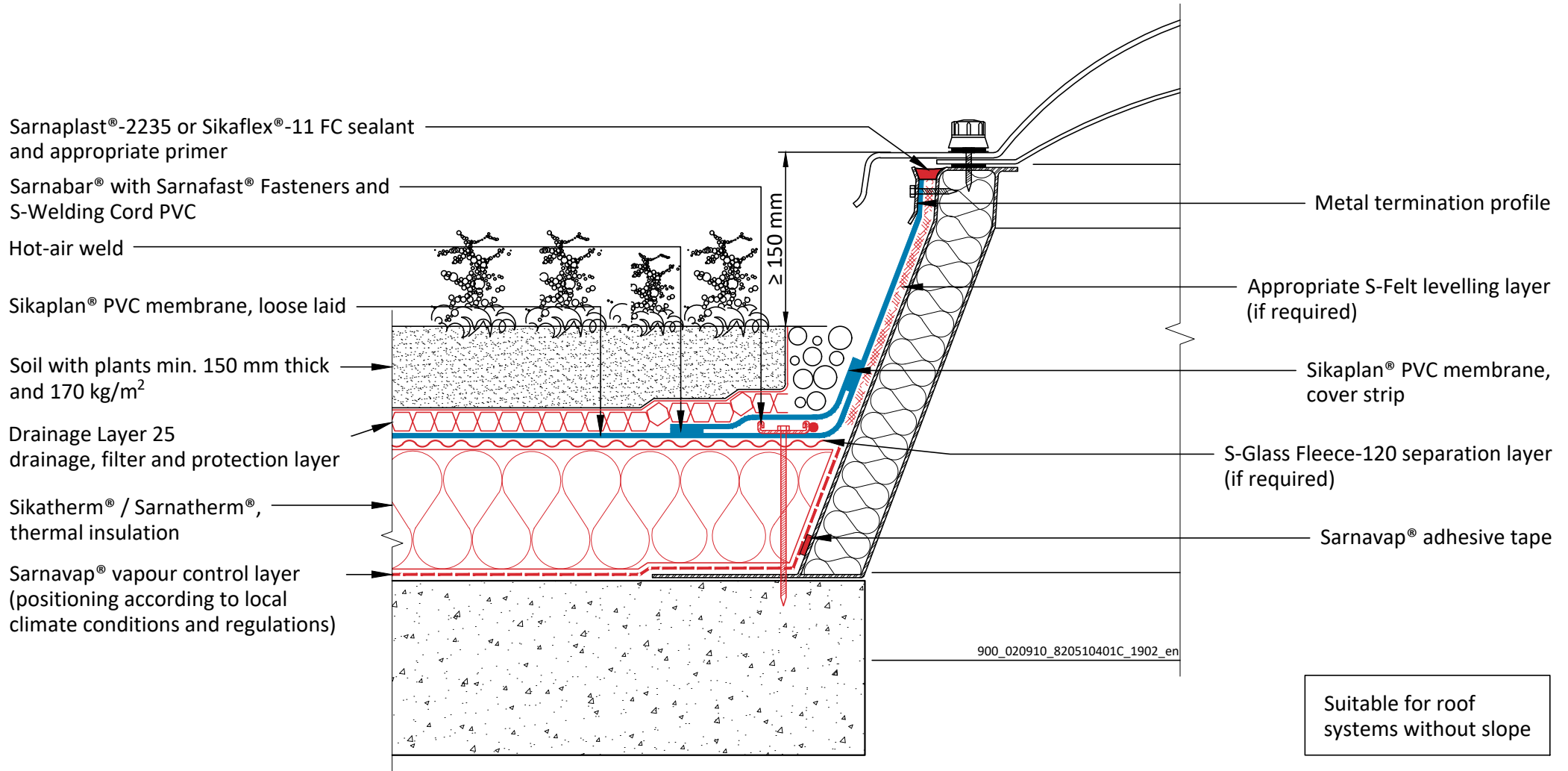
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Suitable for roof systems without slope

SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION
 SPL PVC - 051.04.01 - Skylight - Sealed - Mechanically Fastened on Skylight System
 Sika General Detail. Template for translation.

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

Sikaplan® PVC membrane, adhered

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

Hot-air weld

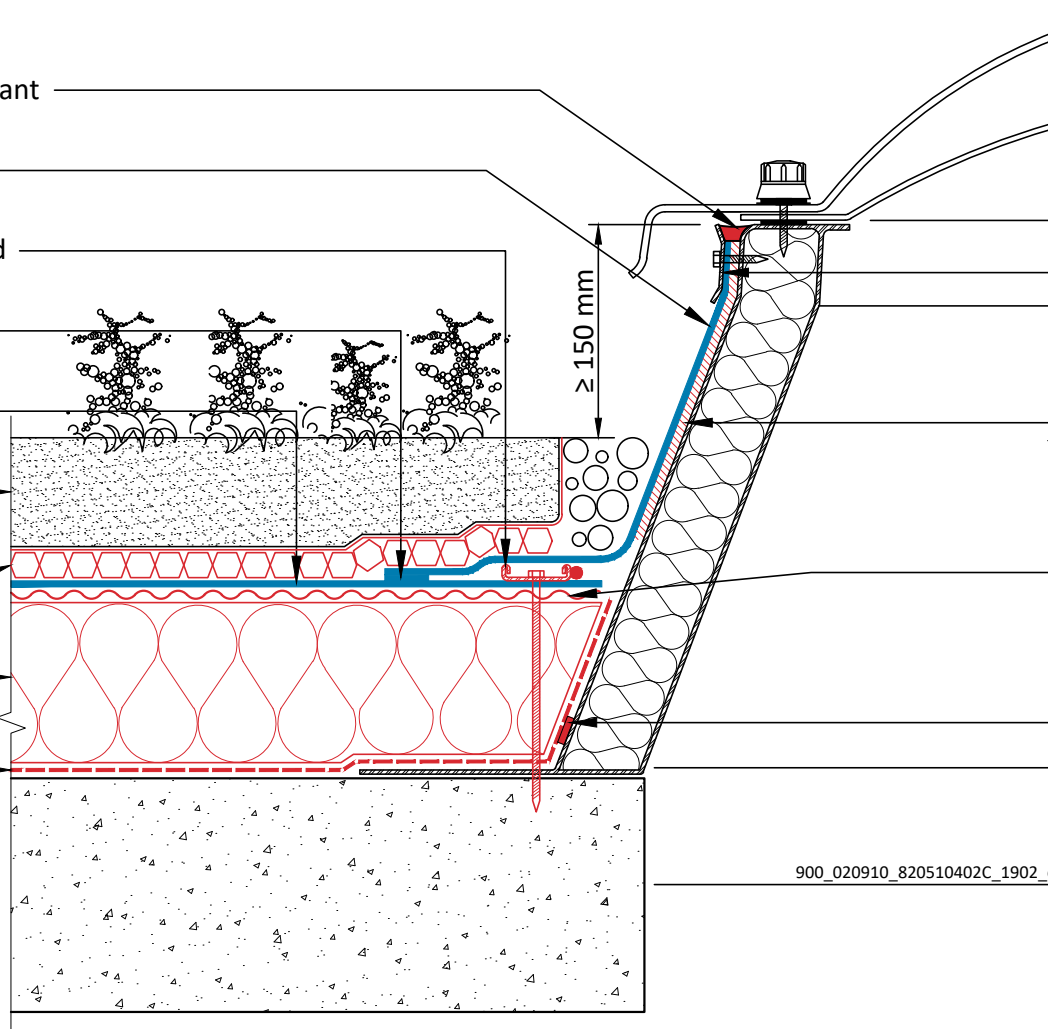
Sikaplan® PVC membrane, loose laid

Soil with plants min. 150 mm thick and 170 kg/m²

Drainage Layer 25 drainage, filter and protection layer

Sikatherm® / Sarnatherm®, thermal insulation

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



Metal termination profile

Sika® Trocal C-733 adhesive

S-Glass Fleece-120 separation layer (if required)

Sarnavap® adhesive tape

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Suitable for roof systems without slope

**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
ON CONCRETE DECK WITH THERMAL INSULATION**
SPL PVC - 051.04.02 - Skylight - Sealed - Adhered on Skylight System
Sika General Detail. Template for translation.

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

Hot-air weld

Sikaplan® PVC membrane, loose laid

Soil with plants min. 150 mm thick and 170 kg/m²

Drainage Layer 25 drainage, filter and protection layer

Sikatherm® / Sarnatherm®, thermal insulation

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

≥ 150 mm

Appropriate S-Felt levelling layer (if required)

Sikaplan® PVC membrane, cover strip

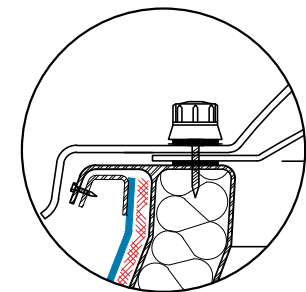
S-Glass Fleece-120 separation layer (if required)

Sarnavap® adhesive tape

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Metalclip Termination (Alternative)

Suitable for roof systems without slope



SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION

SPL PVC - 051.04.03 - Skylight - Clamped - Mechanically Fastened on Skylight System

Sika General Detail. Template for translation.

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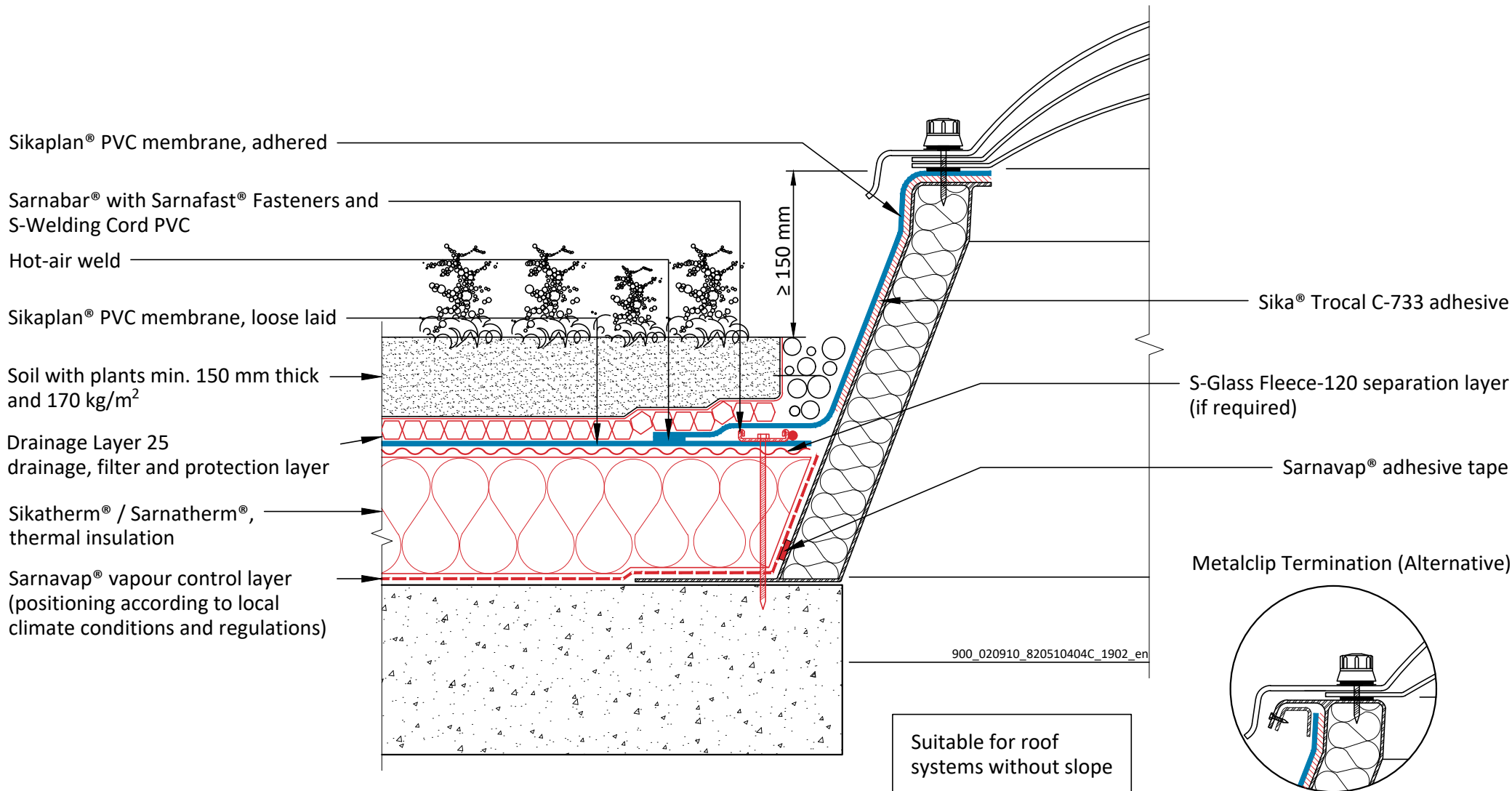
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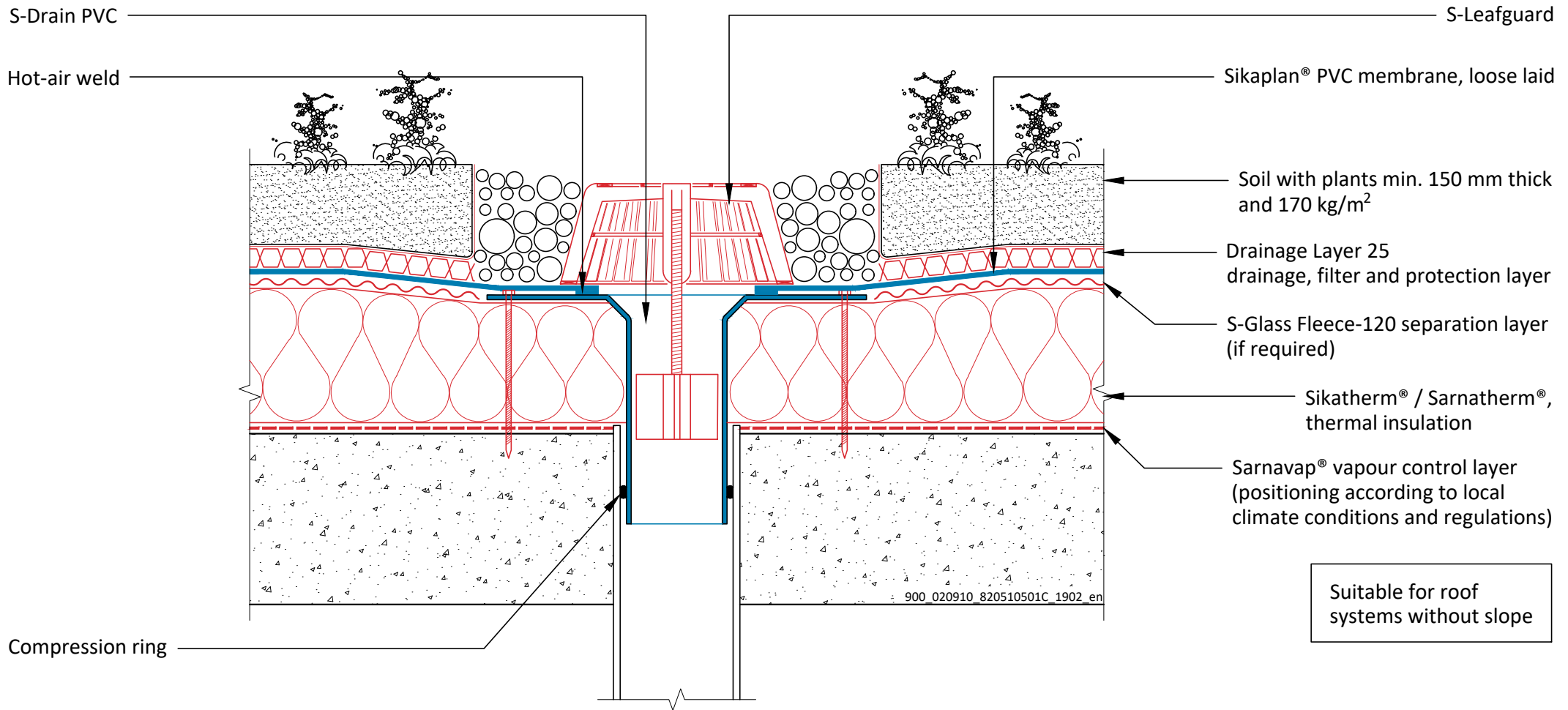
SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION
 SPL PVC - 051.04.04 - Skylight - Clamped - Adhered on Skylight System
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**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
ON CONCRETE DECK WITH THERMAL INSULATION**

SPL PVC - 051.05.01 - Roof Drain (Outlet)

Sika General Detail. Template for translation.

900_020910_820510501C_1902_en
February 2019

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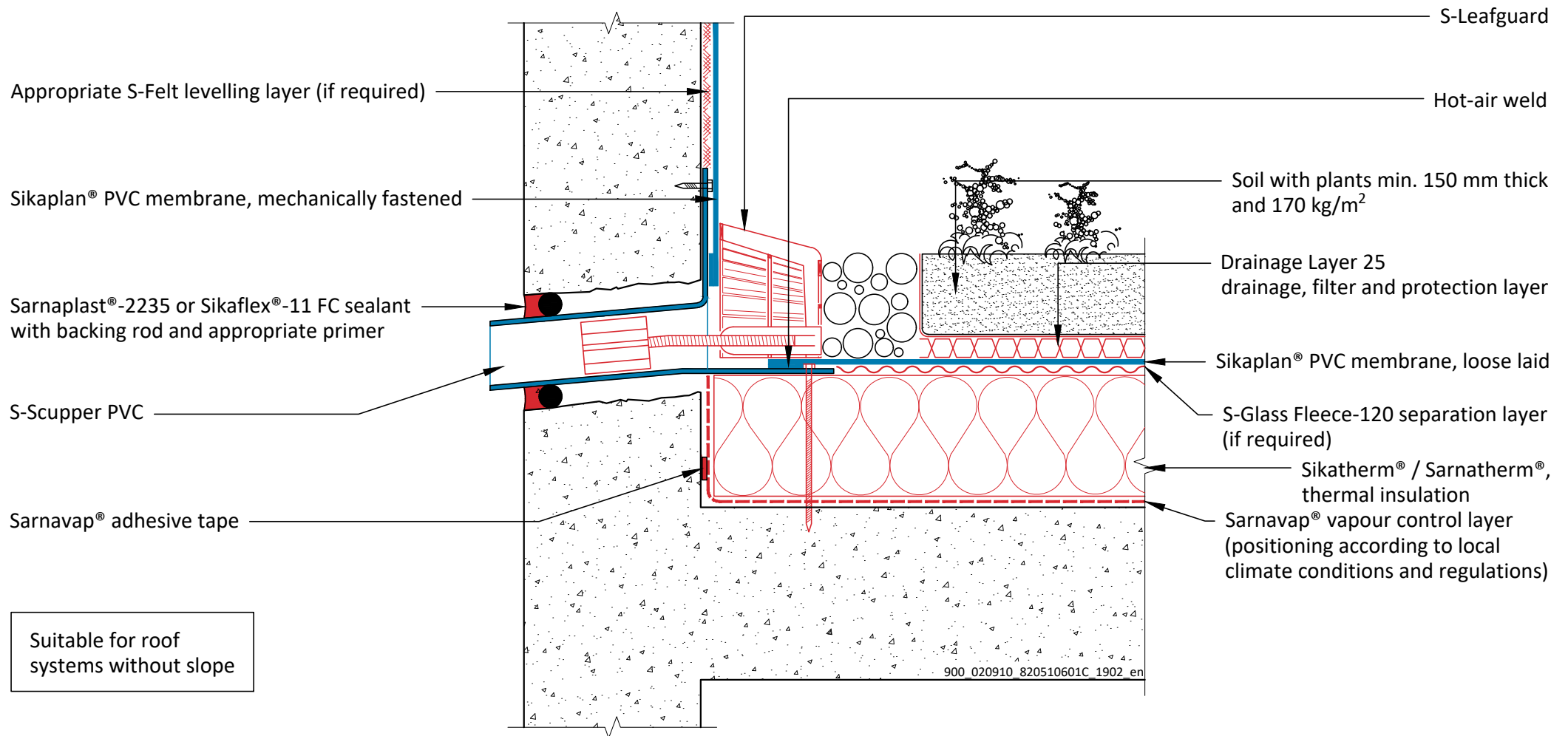
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**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
ON CONCRETE DECK WITH THERMAL INSULATION**
SPL PVC - 051.06.01 - Scupper - Mechanically Fastened on Concrete Wall
Sika General Detail. Template for translation.

900_020910_820510601C_1902_en
February 2019

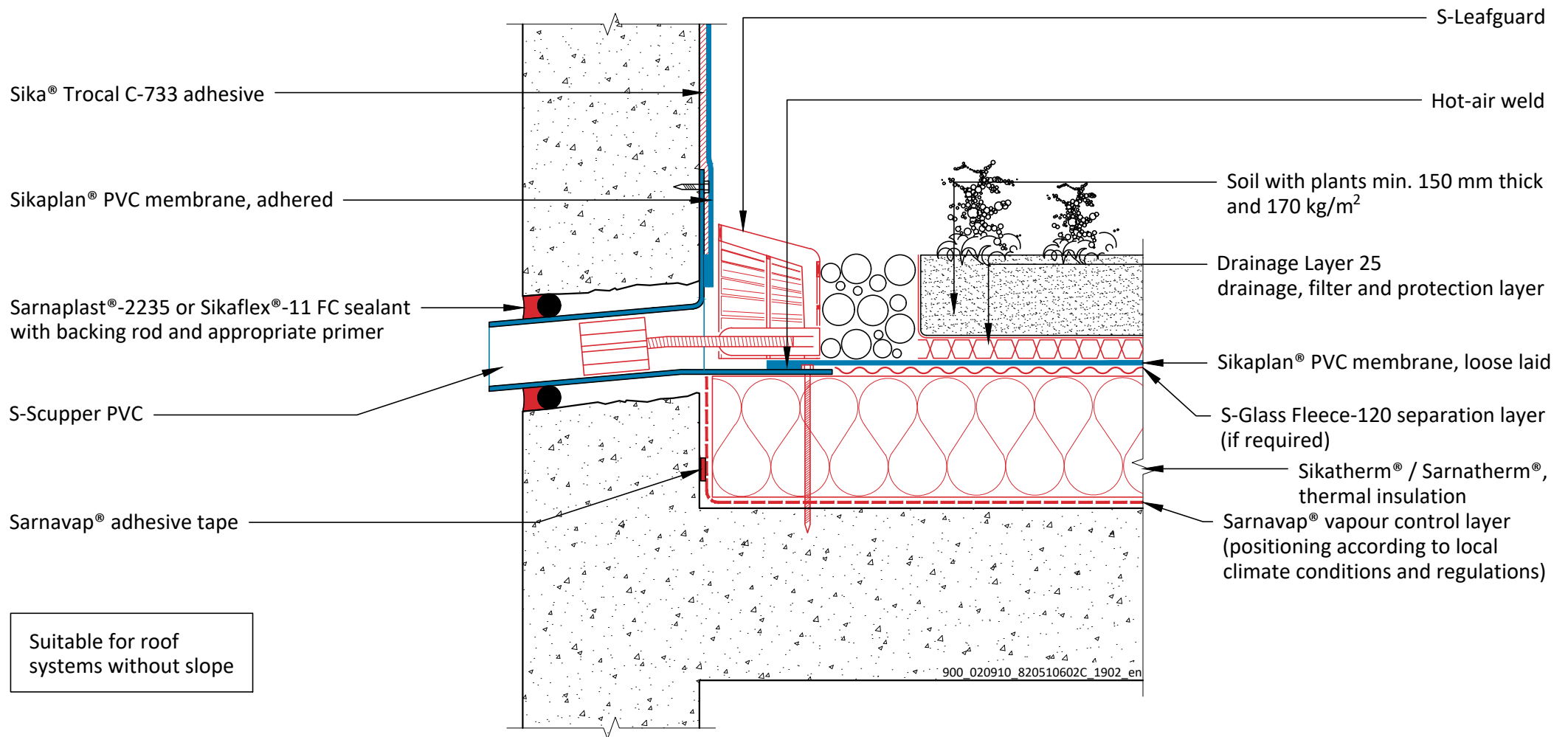
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Suitable for roof systems without slope

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SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION
 SPL PVC - 051.06.02 - Scupper - Adhered on Concrete Wall
 Sika General Detail. Template for translation.

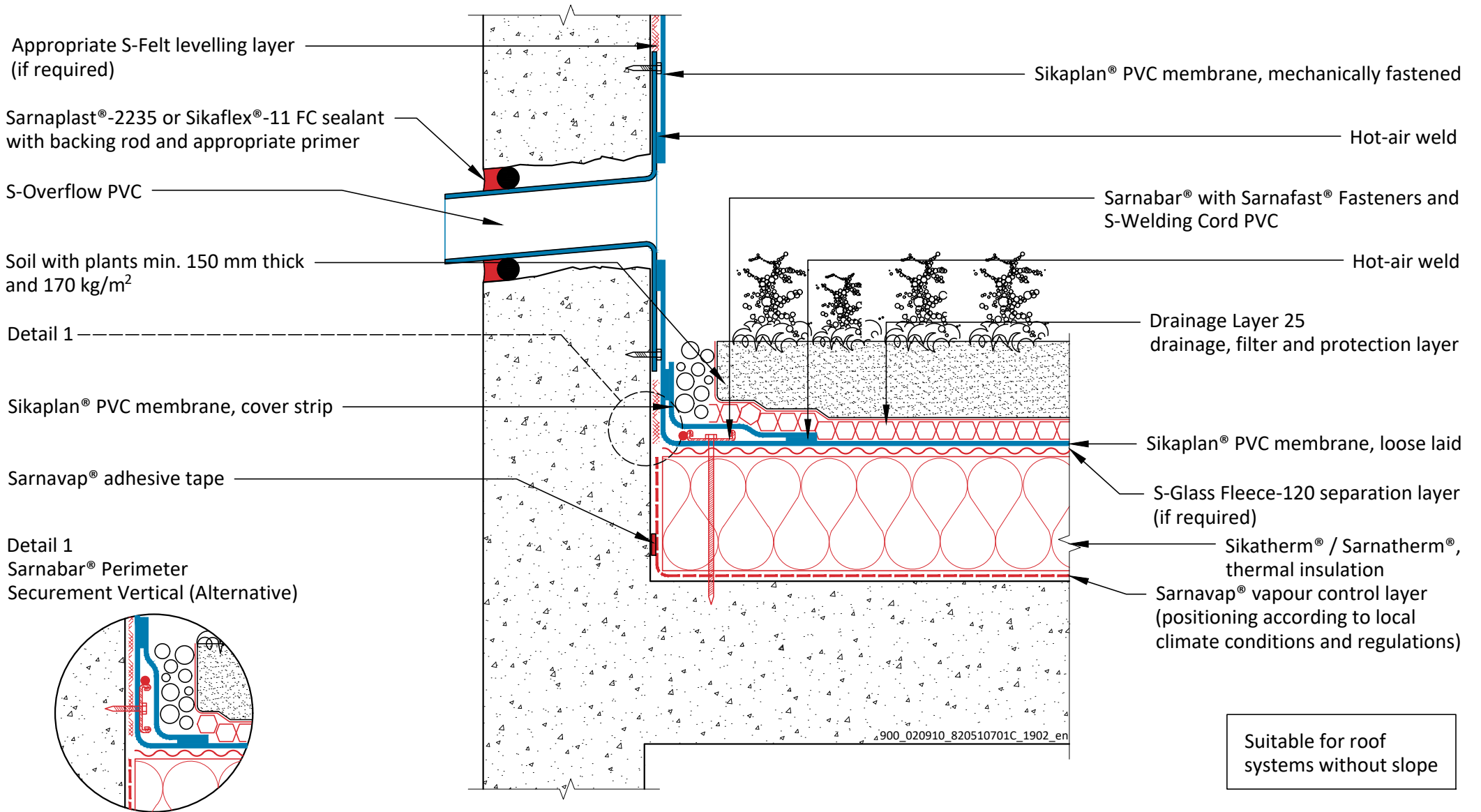
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**SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE
ON CONCRETE DECK WITH THERMAL INSULATION**

SPL PVC - 051.07.01 - Overflow - Mechanically Fastened on Concrete Wall

Sika General Detail. Template for translation.

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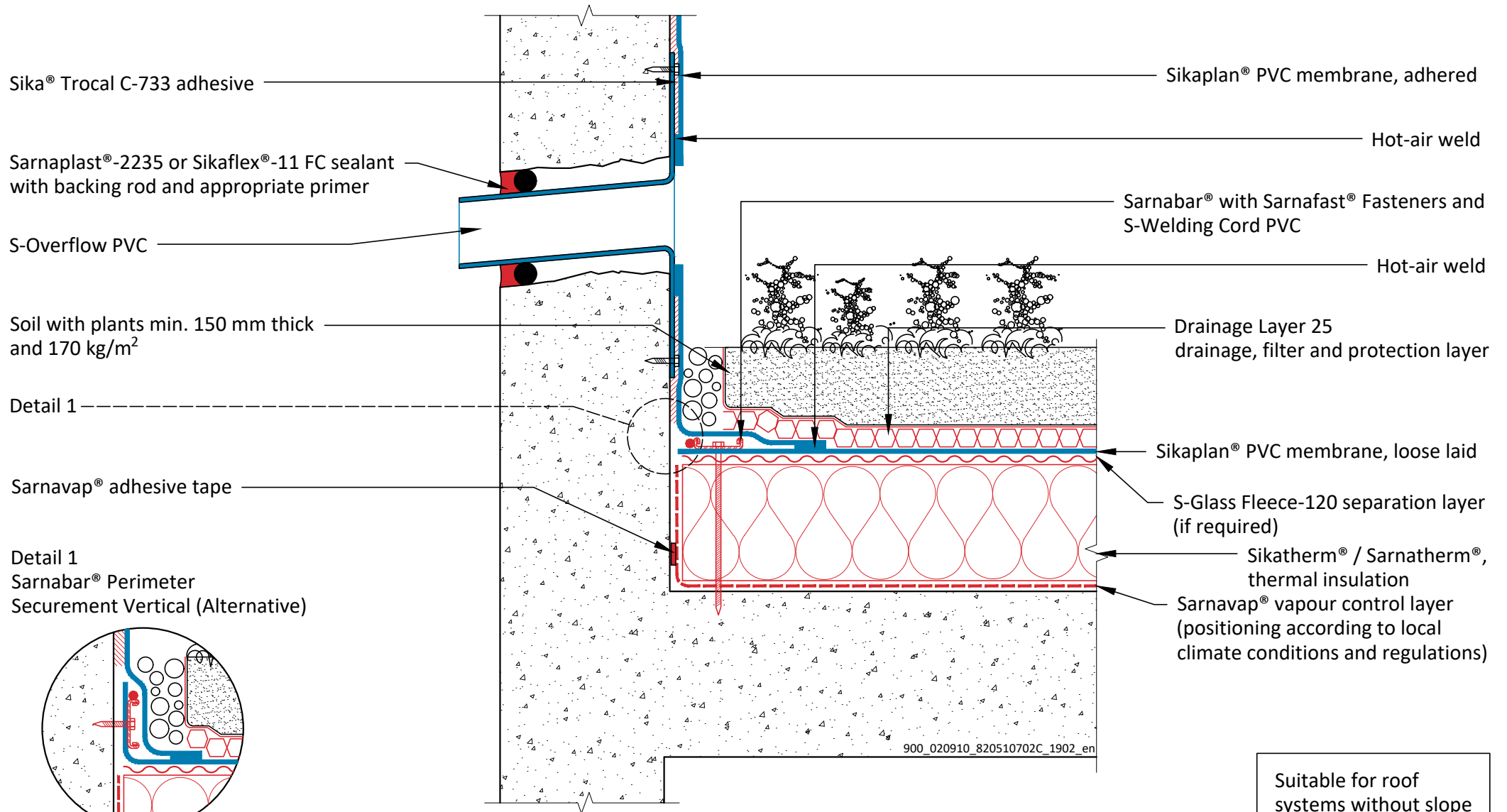
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Suitable for roof systems without slope

SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION
 SPL PVC - 051.07.02 - Overflow - Adhered on Concrete Wall
 Sika General Detail. Template for translation.

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

Hot-air weld

Sikaplan® PVC membrane, loose laid

S-Glass Fleece-120 separation layer (if required)

Sarnavap® adhesive tape

Stainless steel jubilee clip / shrinking hose

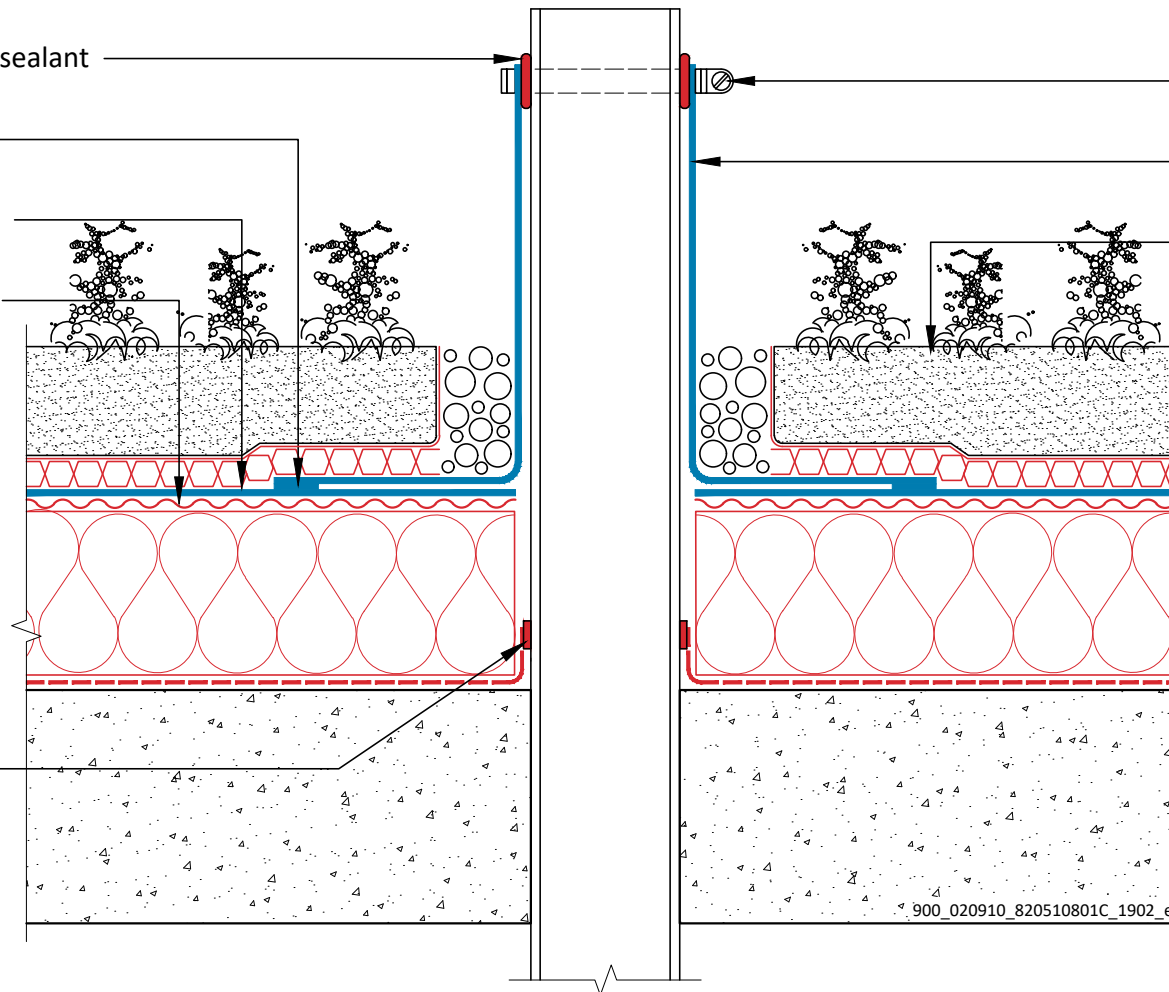
S-Pipe / Post PVC Flashing

Soil with plants min. 150 mm thick and 170 kg/m²

Drainage Layer 25 drainage, filter and protection layer

Sikatherm® / Sarnatherm®, thermal insulation

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



Suitable for roof systems without slope

SIKAPLAN® PVC - GREEN ROOF SYSTEM - INTENSIVE ON CONCRETE DECK WITH THERMAL INSULATION

SPL PVC - 051.08.01 - Vent Pipe / Post

Sika General Detail. Template for translation.

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