SIKALASTIC® ROOFING ESTIMATOR HANDBOOK

INTRODUCTION

Welcome to the Sikalastic® Roofing Estimators Handbook. This pocket guide is designed to serve as a quick reference for Estimators when considering a Sikalastic® Roof Pro or Sikalastic® RoofCoat project*.

Our Sales and Technical Services teams are here to support you in your efforts. Their phone number can be located on our website.

Sika Canada website https://can.sika.com/en/construction/67113.html which contains Product Data Sheets, Safety Data Sheets, typical drawings, and specifications that may be of assistance to you.

* Although accurate at the time of printing, we continuously endeavour to improve. Consult Sika Canada's website regularly at https://can.sika.com/en/home.html to ensure you have the latest information.

INDEX

1. DESIGN REVIEW

Prior to bidding you can obtain a design review from Sika Canada for your project.

MANY MANUFACTURERS RESISTANCE DESIGN CRITERIA ARE BASED ON THE WIND SPEED OF THEIR WARRANTIES AND NOT THE CALCULATED WIND LOAD PRESSURES

Sika Technical Services can provide upon request, Design Reviews for wind uplift, fire ratings and any other specific requested requirements which can assist you in your estimation of your Sika project.

Information Required for Design Review			
Building Address			
Building Length (ft.)			Not required if dimensioned drawings are submitted
Building Width (ft.)			Not required if dimensioned drawings are submitted
Roof Height (h) (ft.)			Not required if dimensioned drawings are submitted
Roof Slope (Degree)	Select		Not required if dimensioned drawings are submitted
Importance Category	Select		See below for definition
Building Openings	Select		See below for definition
Roof Type/Shape	Select		See below for definition. Not required if dimensioned drawings are submitted
Structural Deck:	Select		If other please describe in additional information
Wind load compliance	Select		Not required if specification submitted
Fire compliance	Select		Not required if specification submitted
Sika Warranty Required	Select	Warranty Length (Years)	Select

Sarnafil® BUILDING TRUST CONSTRUIRE LA CONFIANCE Sika®

Date: June 19th, 2020

Re: Revised Design review for, Multi Family Rental Housing, 1037 West King Edward Ave, Vancouver BC

Based on the information provided we would offer the following guidance. All wind load pressures and roof zones are to be confirmed by the design professional.

Wind load calculation: Based on NRC Wind-RCI wind load roof calculator (see tables below). Wind-RCI calculates the NBCC specified wind loads for various zones (i.e., field, edge and corner) of the roof assembly in accordance to the NBCC's Limit States design requirement, (NBCC - Subsections: 4.1.3 and 4.1.7).

Wind-RCI
Roof Calculator on Internet

Building parameters

Building location: Vancouver Region, West Vancouver, British Columbia

Building geometry:

- Low-rise building, Low-slope roof without parapet
- Height (reference height): 45 ft (14 m)
- Width (smaller plan dimension): 80 ft (24 m)
- Length: 175 ft (53 m)

Building exposure: Open

Building openings: Category 2

Building importance: Normal

Wind loads for roof cladding

Roof area	Wind load
End zone width, z	8 ft (2.4 m)
Corner, ©	-88 psf (-4.2 kPa)
Edge, ⑤	-45 psf (-2.2 kPa)
Field, ⓡ	-35 psf (-1.7 kPa)

R1 - Sikalastic Roof System:

- ¾" Plywood Deck
- Vapour Retarder SA 31 with Vapour Retarder Primer SB
- Tapered Type II EPS insulation loose laid
- 2 layers Sarnatherm (R-28) polyisocyanurate, mechanically attach the top layer as described below.
- ¼" DensDeck Prime cover board, adhered with Sarnacol LRA or Sarnacol 2163 as described below
- Sikalastic Roof Pro 25 system
- Sarnafelt NWP loose laid
- Extensive Green Roof with drainage layer (by others)

R2 - Sikalastic Roof System:

- ¾" Plywood Deck
- Vapour Retarder SA 31 with Vapour Retarder Primer SB
- Tapered Type II EPS insulation loose laid
- 2 layers Sarnatherm (R-28) polyisocyanurate, mechanically attach the top layer as described below.
- ¼" DensDeck Prime cover board, adhered with Sarnacol LRA or Sarnacol 2163 as described below
- Sikalastic Roof Pro 20 system

R3 - Sikalastic Roof System:

- ¾" Plywood Deck
- Sikalastic Roof Pro 20 system
- Sarnafelt NWP loose laid
- Concrete Paver on Pedestals

R4 - Sikalastic Roof System:

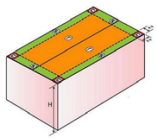
- ¾" Plywood Deck
- Vapour Retarder SA 31 with Vapour Retarder Primer SB
- Tapered Type II EPS insulation loose laid
- 2 layers Sarnatherm (R-28) polyisocyanurate, mechanically attach the top layer as described below.
- 5/8" DensDeck Prime cover board, adhered with Sarnacol LRA or Sarnacol 2163 as described below
- Sikalastic Roof Pro 20 system
- Sarnafelt NWP loose laid
- Concrete Paver on Pedestals

Attachment (R1, R2 & R4):

- Field of Roof Zone: top layer of Sarnatherm polyisocyanurate is attached with 10 (per 4'x8' board) #15 Sarnafastener and 3" square Sarnaplate. DensDeck cover board is adhered at 12"o.c.
- Perimeter/Edge Roof Zone: top layer of Sarnatherm polyisocyanurate is attached with 12 (per 4'x8' board) #15 Sarnafastener and 3" square Sarnaplate. DensDeck cover board is adhered at 6"o.c.
- Corner Roof Zone: top layer of Sarnatherm polyisocyanurate is attached with 10 (per 4'x8' board) #15 Sarnafastener and 3" square Sarnaplate. DensDeck cover board is adhered at 4"o.c.

Roof Zone definition:

The field zone = (r), the perimeter zone = (s) and the corner zone = (c). The value "z" defined as the lessor of: 40% of the roof height or 10% of the lessor building dimension (NOT ROOF) of length or width, but not less than 4% of the least horizontal dimension. Minimum "z" value = 8ft.

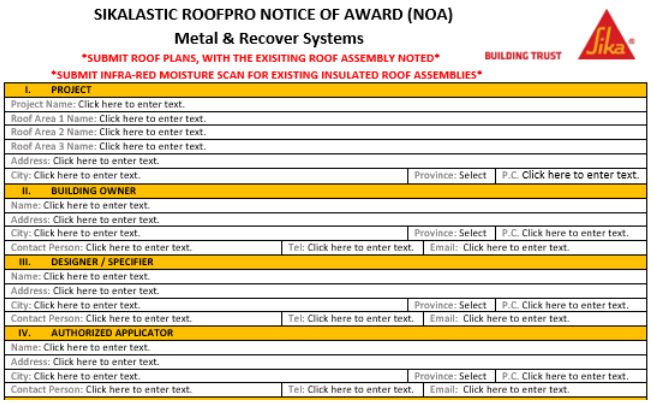


The roof assemblies described above will meet the requirements for a Sika Canada System warranty (up to a 20 year duration) when installed according to current Sika Canada published specification, application and details.

2. NOTICE OF AWARD

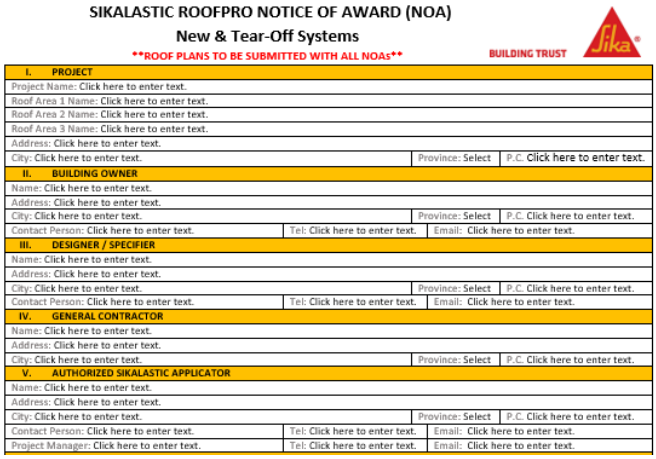
All Sikalastic® projects, regardless of warranty type must have a Notice of Award (NOA) submitted to Sika Technical Services prior to the project commencement. This form is the method used to track the project and ensure that the correct materials are used in your project.

- Contractor completes the NOA and submits the form electronically.
- Project is reviewed by Sika Technical Services, and the contractor is notified of any required changes



SIKALASTIC ROOFPRO NOTICE OF AWARD (NOA)
Metal & Recover Systems
SUBMIT ROOF PLANS, WITH THE EXISITING ROOF ASSEMBLY NOTED
SUBMIT INFRA-RED MOISTURE SCAN FOR EXISTING INSULATED ROOF ASSEMBLIES
BUILDING TRUST

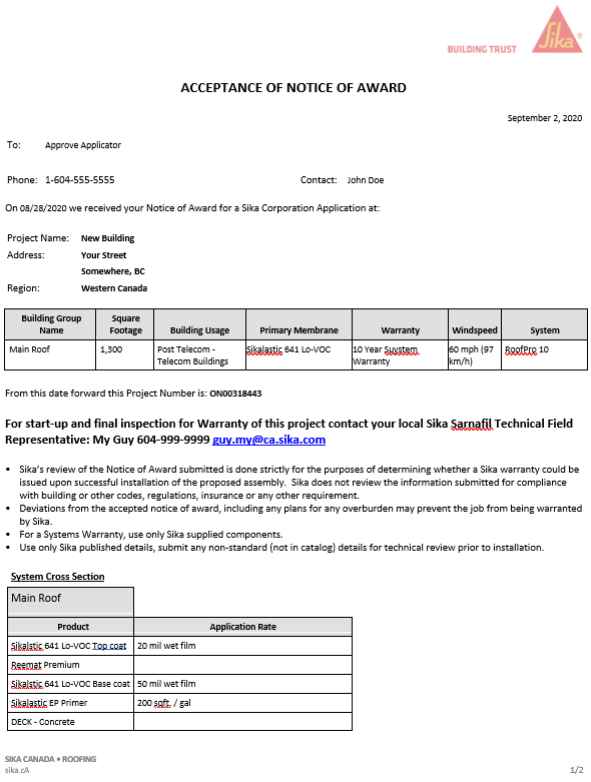
I. PROJECT		
Project Name: Click here to enter text.		
Roof Area 1 Name: Click here to enter text.		
Roof Area 2 Name: Click here to enter text.		
Roof Area 3 Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
II. BUILDING OWNER		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
Contact Person: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.
III. DESIGNER / SPECIFIER		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
Contact Person: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.
IV. AUTHORIZED APPLICATOR		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
Contact Person: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.



SIKALASTIC ROOFPRO NOTICE OF AWARD (NOA)
New & Tear-Off Systems
ROOF PLANS TO BE SUBMITTED WITH ALL NOAs
BUILDING TRUST

I. PROJECT		
Project Name: Click here to enter text.		
Roof Area 1 Name: Click here to enter text.		
Roof Area 2 Name: Click here to enter text.		
Roof Area 3 Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
II. BUILDING OWNER		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
Contact Person: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.
III. DESIGNER / SPECIFIER		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
Contact Person: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.
IV. GENERAL CONTRACTOR		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
V. AUTHORIZED SIKALASTIC APPLICATOR		
Name: Click here to enter text.		
Address: Click here to enter text.		
City: Click here to enter text.	Province: Select	P.C. Click here to enter text.
Contact Person: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.
Project Manager: Click here to enter text.	Tel: Click here to enter text.	Email: Click here to enter text.

- Once accepted, the contractor is sent an Acceptance Notice of Award (ANOA) acceptance letter and Request for Warranty form



BUILDING TRUST

ACCEPTANCE OF NOTICE OF AWARD

September 2, 2020

To: Approve Applicator

Phone: 1-604-555-5555 Contact: John Doe

On 08/28/2020 we received your Notice of Award for a Sika Corporation Application at:

Project Name: **New Building**
Address: **Your Street**
Somewhere, BC
Region: **Western Canada**

Building Group Name	Square Footage	Building Usage	Primary Membrane	Warranty	Windspeed	System
Main Roof	1,300	Post Telecom - Telecom Buildings	Sikalastic 641 Lo-VOC	10 Year System Warranty	60 mph (97 km/h)	RoofPro 10

From this date forward this Project Number is: **ON00318443**

For start-up and final inspection for Warranty of this project contact your local Sika Sarnafil Technical Field Representative: My Guy 604-999-9999 guy.my@ca.sika.com

- Sika's review of the Notice of Award submitted is done strictly for the purposes of determining whether a Sika warranty could be issued upon successful installation of the proposed assembly. Sika does not review the information submitted for compliance with building or other codes, regulations, insurance or any other requirement.
- Deviations from the accepted notice of award, including any plans for any overburden may prevent the job from being warranted by Sika.
- For a Systems Warranty, use only Sika supplied components.
- Use only Sika published details, submit any non-standard (not in catalog) details for technical review prior to installation.

System Cross Section

Main Roof	
Product	**Application Rate**
Sikalstic 641 Lo-VOC Top coat	20 mil wet film
Reemat Premium	
Sikalstic 641 Lo-VOC Base coat	50 mil wet film
Sikalastic EP Primer	200 sqft. / gal
DECK - Concrete	

SIKA CANADA • ROOFING
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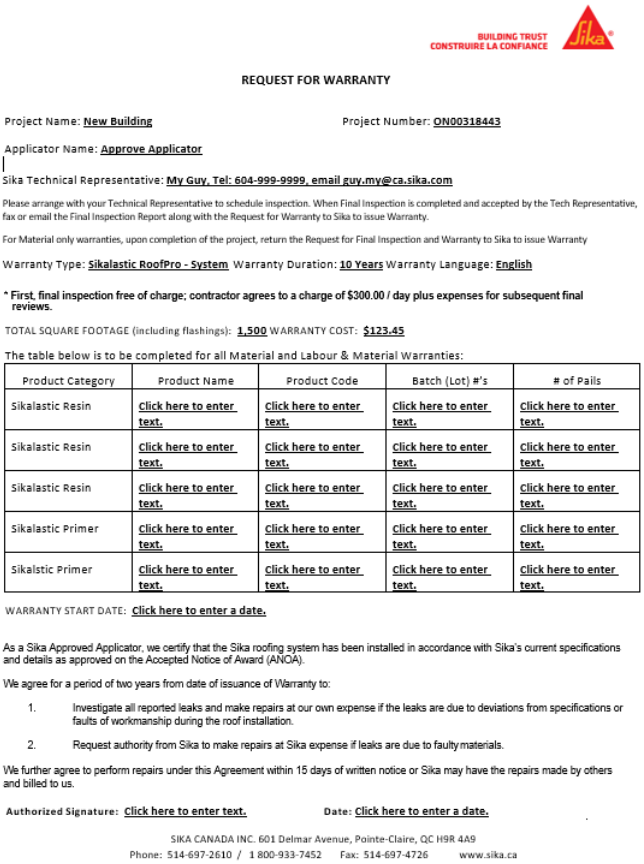


BUILDING TRUST
CONSTRUIRE LA CONFIANCE

REQUEST FOR WARRANTY

Project Name: **New Building** Project Number: **ON00318443**

Applicator Name: **Approve Applicator**

Sika Technical Representative: **My Guy, Tel: 604-999-9999, email guy.my@ca.sika.com**

Please arrange with your Technical Representative to schedule inspection. When Final Inspection is completed and accepted by the Tech Representative, fax or email the Final Inspection Report along with the Request for Warranty to Sika to issue Warranty.

For Material only warranties, upon completion of the project, return the Request for Final Inspection and Warranty to Sika to issue Warranty

Warranty Type: **Sikalastic RoofPro - System** Warranty Duration: **10 Years** Warranty Language: **English**

* **First final inspection free of charge; contractor agrees to a charge of $300.00 / day plus expenses for subsequent final reviews.**

TOTAL SQUARE FOOTAGE (including flashings): **1,500** WARRANTY COST: **$123.45**

The table below is to be completed for all Material and Labour & Material Warranties:

Product Category	Product Name	Product Code	Batch (Lot) #'s	# of Pails
Sikalastic Resin	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Sikalastic Resin	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Sikalastic Resin	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Sikalastic Primer	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Sikalstic Primer	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.

WARRANTY START DATE: **Click here to enter a date.**

As a Sika Approved Applicator, we certify that the Sika roofing system has been installed in accordance with Sika's current specifications and details as approved on the Accepted Notice of Award (ANOA).

We agree for a period of two years from date of issuance of Warranty to:

1. Investigate all reported leaks and make repairs at our own expense if the leaks are due to deviations from specifications or faults of workmanship during the roof installation.
2. Request authority from Sika to make repairs at Sika expense if leaks are due to faulty materials.

We further agree to perform repairs under this Agreement within 15 days of written notice or Sika may have the repairs made by others and billed to us.

Authorized Signature: **Click here to enter text.** **Date:** **Click here to enter a date.**

SIKA CANADA INC. 601 Delmar Avenue, Pointe-Claire, QC H9R 4A9
Phone: 514-697-2610 / 1 800-933-7452 Fax: 514-697-4726 www.sika.ca

- Upon completion of the project the contractor submits the request for Final Warranty

3. OVERVIEW TYPICAL SIKALASTIC® ROOF SYSTEMS

SIKALASTIC® ROOFPRO

a. Conventional Insulated

Sikalastic® RoofPro liquid-applied, single component membranes embedded with fibreglass reinforcement direct to approved substrates. Boards shall be secured to the roof deck by either fasteners and plates or insulation adhesive.

b. PMR System

Sikalastic® RoofPro liquid-applied, single component membranes embedded with fibreglass reinforcement direct to approved substrates. Sikalastic® RoofPro (WP) membrane is installed beneath the insulation and ballasted with either round washed river stones, pavers, or vegetative roof cover.

c. Conventional Un-Insulated

Sikalastic® RoofPro liquid-applied, single component membranes embedded with fibreglass reinforcement direct to approved substrates.

d. Recover

Sikalastic® RoofPro liquid-applied, single component membranes embedded with fibreglass reinforcement direct to approved substrates.

e. Recover

Sikalastic® RoofPro liquid-applied, single component membranes, locally reinforced direct to approved substrates.

SIKALASTIC® ROOFCOAT

a. Recover

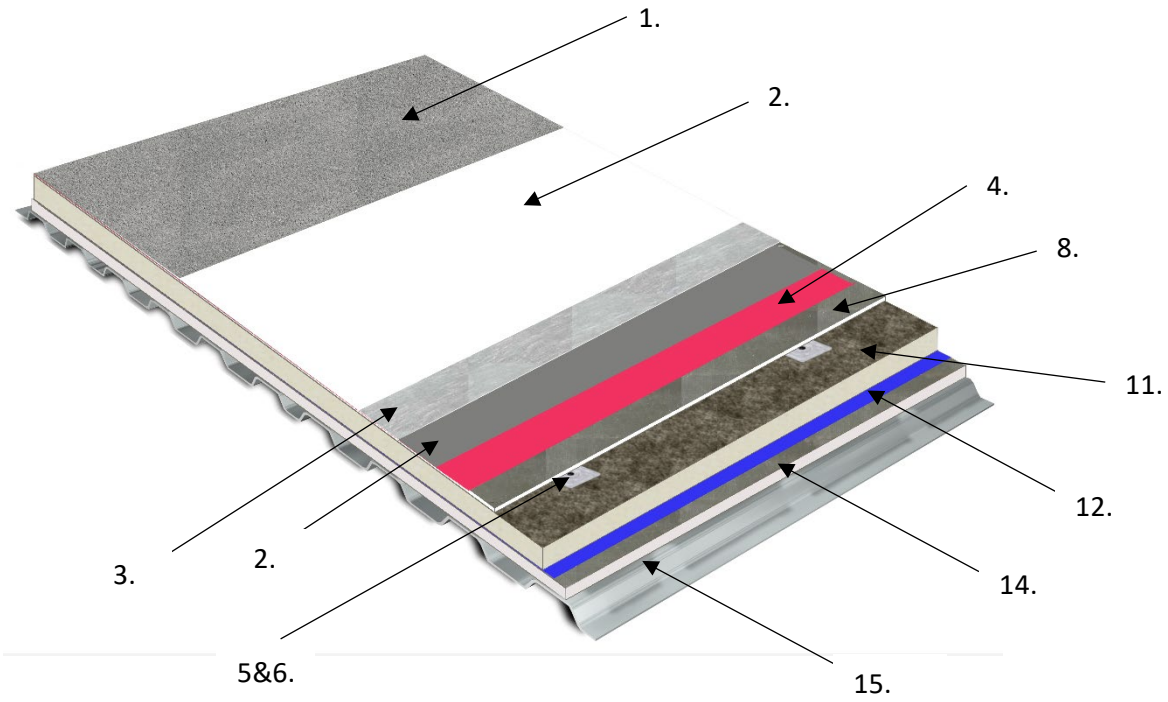
Sikalastic® RoofCoat liquid-applied, single component membranes, locally reinforced, direct to approved substrates.

b. Metal Recover

Sikalastic® RoofPro liquid-applied single, component membranes, locally reinforced, direct to approved substrates.

4. SIKALASTIC® ROOFPRO SYSTEMS

a. Conventional Insulated



Cross Section Layer Conventional Insulated	Approved Materials
1. Surfacing (optional)	Ovendried quartz sand, Sika® DecoQuartz® or Sika® DecoFlake®
2. Pavers & Pedestals (not shown) in lieu of surfacing	Pavers shall be highly resistant to freeze/thaw cracking. Weight shall be at least 88 kg/m^2 (18 lb/ft^2). Pedestals, minimum PAVE-EL 5x or Sika approved
3. Sikalastic® Resin	Sikalastic®-621, -624 WP, -641 Lo-VOC or -644 Lo-VOC
4. Sikalastic® Reinforcement	Reemat Premium
5. Sikalastic® Primer	Refer to Sikalastic® System PDS
6. Board Securement, Mechanical	Sarnaplate
7. Board Securement, Mechanical Fasteners	Sarnafastener #15 XP (Steel & Wood Decks), Sarnafastener #14 (Concrete & Wood Decks)
8. Board Securement, adhesive (not shown)	Sarnacol® LRA, Sarnacol®-2163 or Sarnacol® OM Board Adhesive
9. Cover board	6, 12 & 15 mm (¼", ½" & 5/8") DensDeck Prime
10. Sikalastic® Reinforcement at transition and cover board joints (not shown)	Sika Flexitape Heavy, Sika Joint Tape SA
11. Grounding Layer (optional not shown)	EFVM Grid
12. Insulation	Sarnatherm (20 psi or 25 psi) flat & tapered, Sarnatherm CG (20 psi or 25 psi) flat & tapered or Rockwool DD
13. Vapour Retarders	Sarnavap 6, Sarnavap 10, Vapor Retarder SA 31, Vapor Retarder SA 106, Vapor Retarder TA 138
14. Vapour Retarder Primers (not shown)	Vapor Retarder Primer SB, Vapor Retarder Primer VC, Vapor Retarder Primer WB. Note, primers not required for Sarnavap 6 or Sarnavap 10)
15. Thermal Barrier (Optional)	12 mm (½" & 5/8") DensDeck & DensDeck Prime
16. Structural Deck	22 Ga Steel, 50 mm (2") Wood Plank, 19 mm (¾") Plywood, 3000 psi Concrete

Notes:

- Sikalastic® base layer resin and Sikalastic® top layer resin are to be different colours for RoofPro 10, 15 & 20 systems.
- Sikalastic® intermediate layer resin is a different colour than the Sikalastic® base layer resin and the Sikalastic® top layer resin for RoofPro 25 system.
- Membrane Reinforcement at Transition: Sika Flexitape Heavy, Sika Joint Tape SA
- Install Sika pressure sensitive Aluminum Tape as a barrier between the Sikalastic® RoofPro membrane and Air Vapour Barriers
- A continuous air seal is required at perimeter edge for example refer to Section 8 standard details
- Board & Membrane securement rates are based on wind load pressures in the field, perimeter, and corner roof zones. Refer to Section 7b Roof System Attachment Guide or consult Sika Technical Services for a Design Review
- Refer to appendix Section 7a Roof Zone Guide to define the field, Perimeter and Corner roof zones.
- Refer to appendix Section 8 for typical standard details

Warranty Types:

1. Material: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin only
2. Standard: workmanship & material warranty for Sikalastic® Resin and Sika supplied accessories
3. System: workmanship & material warranty for all components

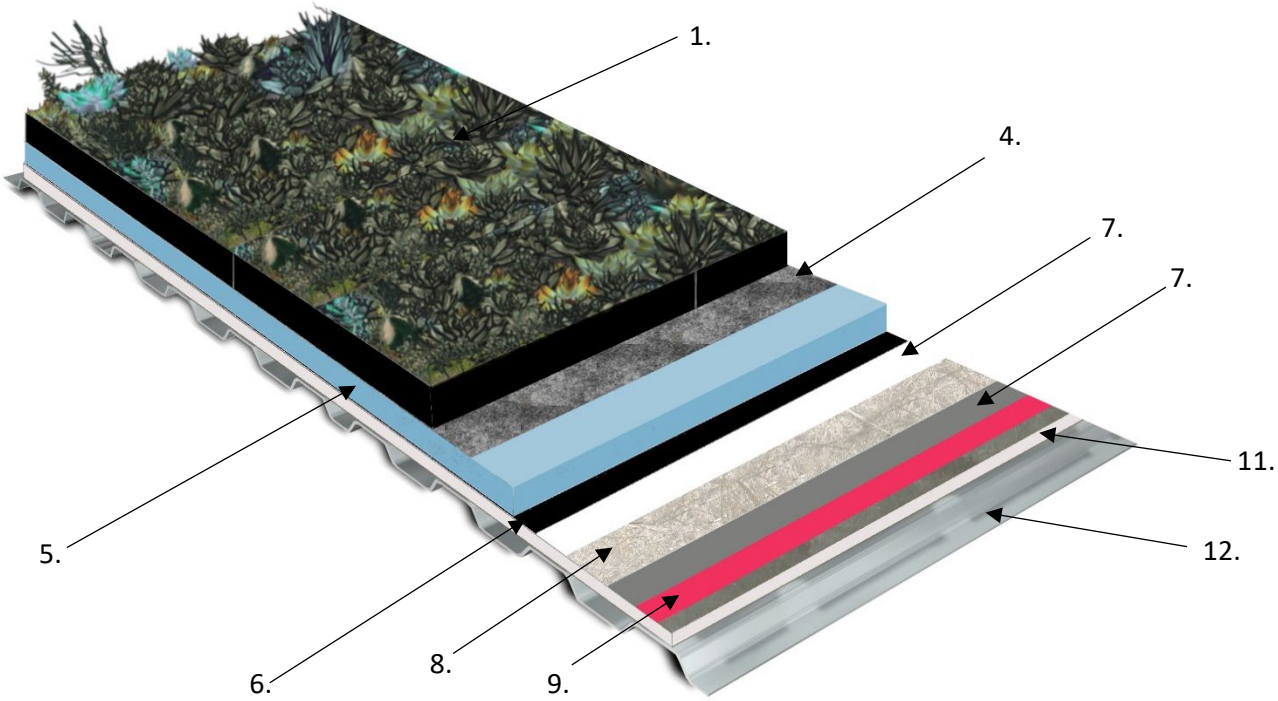
Warranty Duration:

1. Material: 5, 10, 15, 20 or 25* years
2. Standard: 5, 10, 15 or 20 years
3. System: 5, 10, 15, 20 or 25* years

Warranty Notes:

- System warranties require all materials be supplied by Sika from the structural deck up
- Standard warranties require all materials for insulation/cover board fixation/adhesion to be supplied by Sika
- *Sarnavap 6 IS NOT permitted in 25-year warranties
- *Sarnatherm CG or Rockwool insulation required for all 25-year warranties
- Refer to Section 7g warranty selection guide for application rates and reinforcement requirements

b. PMR



Cross Section Layer Paver PMR	Approved Materials
1. Vegetative roof cover	Tray (shown) or Intensive/Extensive vegetative roof system by others (not shown)
2. Ballast (not shown) in lieu of vegetative cover	Ballast shall be nominal 38 mm (1-1/2"), smooth, clean and well-rounded, river-bottom stone meeting ASTM D448 No. 4, minimum rate of 49 kg/m^2 (10 lb/ft^2).
3. Pavers & Pedestals (not shown) in lieu of vegetative cover	Pavers shall be highly resistant to freeze/thaw cracking. Weight shall be at least 88 kg/m^2 (18 lb/ft^2). Pedestals, minimum PAVE-EL 5x or Sika approved
4. Filter Fabric or Drainage Mat (not shown)	Sarnafelt® NWP, Sika® Drainage Mat 420, Sika® Drainage 720 or Sika® Drainage Mat GRS
5. Insulation	Closed cell extruded polystyrene foam insulation board, meeting ASTM C578 Type VI or VII, at least 137 kPa (20 psi) compressive strength
6. Filter Fabric	Sarnafelt® NWP
7. Sikalastic Resin	Sikalastic®-621, -624 WP, -641 Lo-VOC or -644 Lo-VOC
8. Sikalastic Reinforcement	Reemat Premium
9. Sikalastic Primer	Refer to Sikalastic® System PDS
10. Sikalastic Reinforcement at the transition and thermal barrier joints (not shown)	Sika Flexitape Heavy, Sika Joint Tape SA
11. Thermal Barrier required on steel decks	12.5 & 15 mm (½" & 5/8") DensDeck Prime
12. Structural Deck	22 Ga Steel, 50 mm (2") Wood Plank, 19 mm (¾") Plywood, 20 684 kPa(3000 psi) Concrete

Notes:

- Sikalastic® base layer resin and Sikalastic® top layer resin are to be different colours for RoofPro 10, 15 & 20 systems.
- Sikalastic® intermediate layer resin is a different colour than the Sikalastic® base layer resin and the Sikalastic® top layer resin for RoofPro 25 system.
- Membrane Reinforcement at Transition: Sika Flexitape Heavy, Sika Joint Tape SA
- Install Sika pressure sensitive Aluminum Tape as a barrier between the Sikalastic® RoofPro membrane and Air Vapour Barriers
- A continuous air seal is required at perimeter edge for example refer to Section 8 standard details
- Ballast/Paver rates are based on ANSI/SPR RP-4 requirements or consult Sika Technical Services for a Design Review
- Refer to appendix Section 7a Roof Zone Guide to define the Field, Perimeter and Corner roof zones
- Refer to appendix Section 8 for typical standard details

Warranty Types:

1. Material: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin only
2. Standard: workmanship & material warranty for Sikalastic® Resin and Sika supplied accessories
3. System: workmanship & material warranty for all components

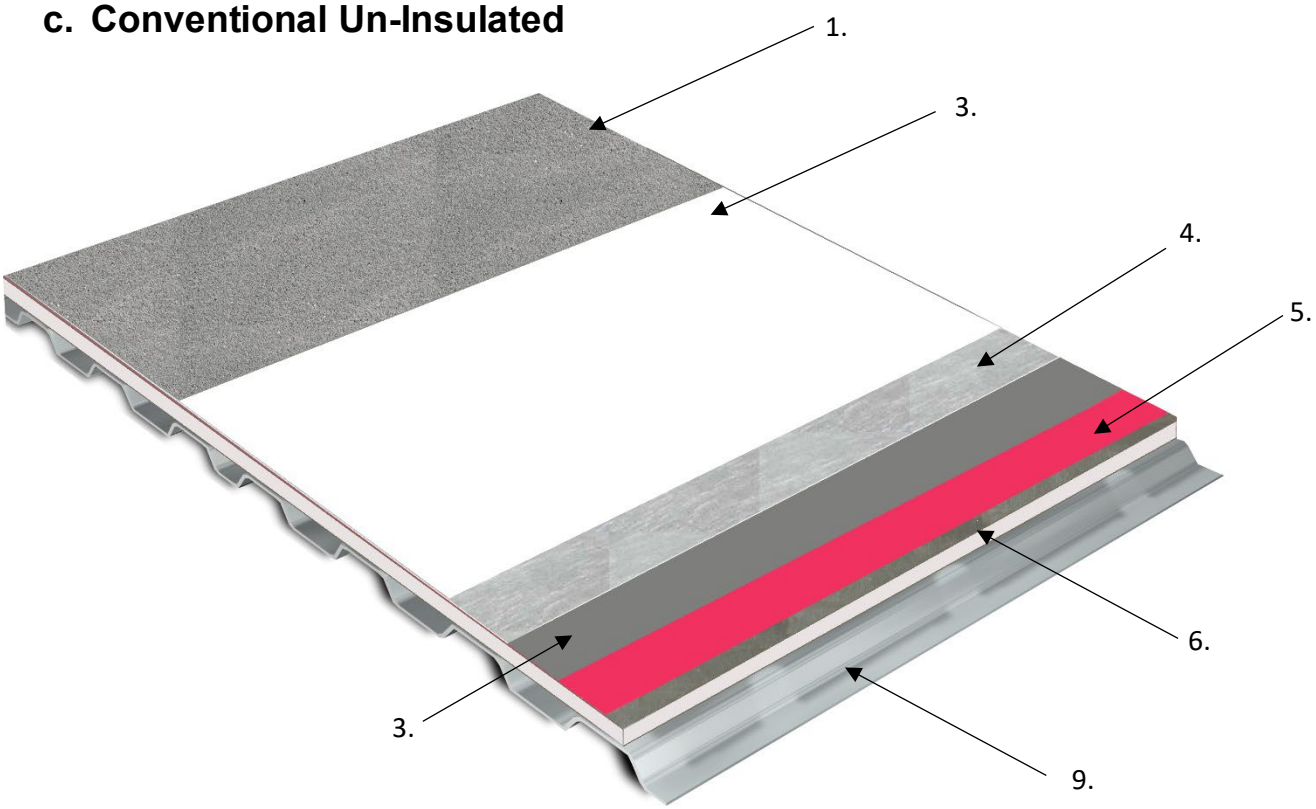
Warranty Duration:

1. Material: 5, 10, 15, 20 or 25 years
2. Standard: 5, 10, 15 or 20 years
3. System: 5, 10, 15, 20 or 25 years

Warranty Notes:

- System warranties require all materials be supplied by Sika from the structural deck up.
- Refer to Section 7g warranty selection guide for application rates and reinforcement requirements

c. Conventional Un-Insulated



Cross Section Layer Conventional Un-Insulated	Approved Materials
1. Surfacing (optional)	Oven-dried quartz sand, Sika® DecoQuartz® or Sika® DecoFlake®
2. Pavers & Pedestals (not shown) in lieu of surfacing	Pavers shall be highly resistant to freeze/thaw cracking. Weight shall be at least 88 kg/m^2 (18 lb/ft^2). Pedestals, minimum PAVE-EL 5x or Sika approved
3. Sikalastic Resin	Sikalastic®-621, -624 WP, -641 Lo-VOC or -644 Lo-VOC
4. Sikalastic Reinforcement	Reemat Premium
5. Sikalastic Primer	Refer to Sikalastic® System PDS
5. Sikalastic Reinforcement at the transition and thermal barrier joints (not shown)	Sika Flexitape Heavy, Sika Joint Tape SA
6. Thermal Barrier (Optional)	12 & 15 mm (½" & 5/8") DensDeck Prime
7. Board Securement (not shown)	Sarnaplate
8. Board Securement (not shown)	Sarnafastener #15 XP (Steel & Wood Decks), Sarnafastener #14 (Concrete & Wood Decks)
9. Structural Deck	22 Ga Steel, 50 mm (2") Wood Plank, 19 mm (¾") Plywood, 3000 psi Concrete

Notes:

- Sikalastic® base layer resin and Sikalastic® top layer resin are to be different colours for RoofPro 10, 15 & 20 systems.
- Sikalastic® intermediate layer resin is a different colour than the Sikalastic® base layer resin and the Sikalastic® top layer resin for RoofPro 25 system.
- Membrane Reinforcement at Transition: Sika Flexitape Heavy, Sika Joint Tape SA

- Install Sika pressure sensitive Aluminum Tape as a barrier between the Sikalastic® RoofPro membrane and Air Vapour Barriers
- A continuous air seal is required at perimeter edge for example refer to Section 8 standard details
- Refer to appendix Section 8 for typical standard details

Warranty Types:

1. Material: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin only
2. Standard: workmanship & material warranty for Sikalastic® Resin and Sika supplied accessories
3. System: workmanship & material warranty for all components

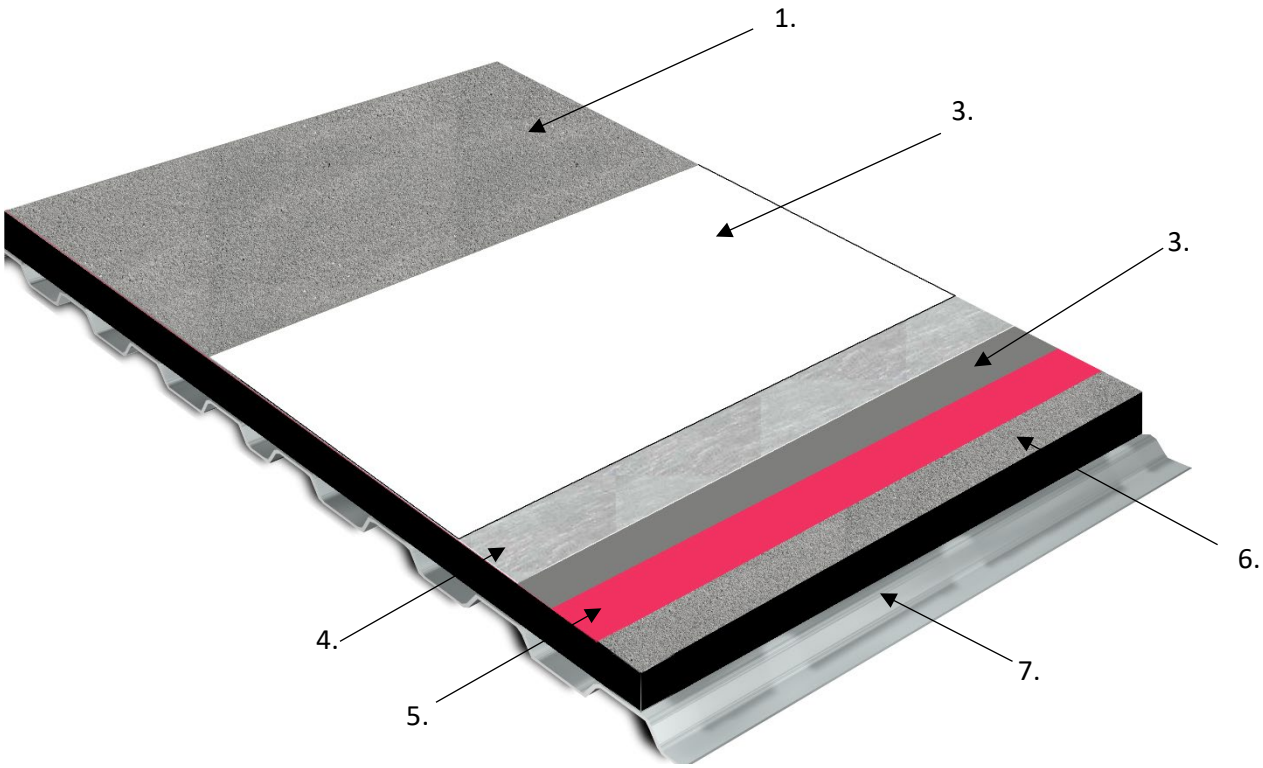
Warranty Duration:

1. Material: 5, 10, 15, 20 or 25 years
2. Standard: 5, 10, 15 or 20 years
3. System: 5, 10, 15, 20 or 25 years

Warranty Notes:

- System warranties require all materials be supplied by Sika from the structural deck up
- Standard warranties require all materials for thermal barrier fixation/adhesion to be supplied by Sika
- Refer to Section 7g warranty selection guide for application rates and reinforcement requirements

d. Recover



Cross Section Layer Conventional Recover	Approved Materials
1. Surfacing (optional)	Oven-dried quartz sand, Sika® DecoQuartz® or Sika® DecoFlake®
2. Pavers & Pedestals (not shown) in lieu of surfacing	Pavers shall be highly resistant to freeze/thaw cracking. Weight shall be at least 88 kg/m^2 (18 lb/ft^2). Pedestals, minimum PAVE-EL 5x or Sika approved
3. Sikalastic® Resin	Sikalastic®-621, -624 WP, -641 Lo-VOC or -644 Lo-VOC
4. Sikalastic® Reinforcement	Reemat Premium
5. Sikalastic® Primer	Refer to the specific Sikalastic® roof system for primer selection
6. Existing Roof Assembly	Refer to the specific Sikalastic® roof system for acceptable existing roof assembly. All existing assemblies must be fully adhered.
7. Structural Deck	22 Ga Steel, 50 mm (2") Wood Plank, 19 mm (¾") Plywood, 20 684 kPa (3000 psi) Concrete

Notes:

- Sikalastic® base layer resin and Sikalastic® top layer resin are to be different colours for RoofPro 10, 15 & 20 systems.
- Membrane Reinforcement at Transition: Sika Flexitape Heavy
- Install Sika pressure sensitive Aluminum Tape as a barrier between the Sikalastic® RoofPro membrane and Air Vapour Barriers
- A continuous air seal is required at perimeter edge for example refer to Section 8 standard details
- Refer to appendix Section 8 for typical standard details

Warranty Types:

1. Material: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin only
2. Standard: workmanship & material warranty for Sikalastic® Resin and Sika supplied accessories

Warranty Duration:

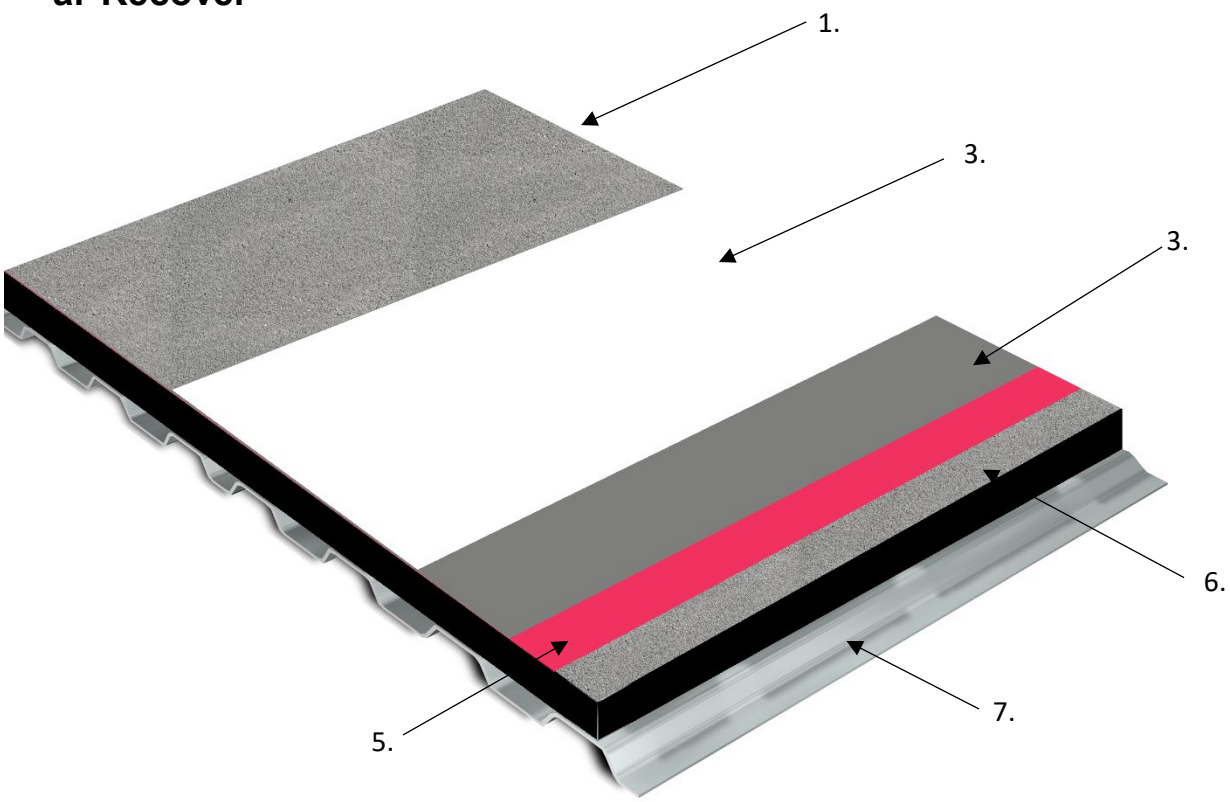
1. Material: 5, 10, 15 or 20 years
2. Standard: 5, 10, 15 or 20 years

Warranty Notes:

- Standard warranties require all materials for insulation/cover board fixation/adhesion to be supplied by Sika
- Refer to Section 7g warranty selection guide for application rates and reinforcement requirements

5. SIKALASTIC® ROOFCOAT SYSTEMS

a. Recover



Cross Section Layer Conventional Recover	Approved Materials
1. Surfacing (optional)	Oven-dried quartz sand, Sika® DecoQuartz® or Sika® DecoFlake®
2. Pavers & Pedestals (not shown) in lieu of surfacing	Pavers shall be highly resistant to freeze/thaw cracking. Weight shall be at least 88 kg/m^2 (18 lb/ft^2). Pedestals, minimum PAVE-EL 5x or Sika approved
3. Sikalastic® Resin	Sikalastic®-626, Sikalastic®-646 Lo-VOC
4. Sikalastic® Reinforcement at the transition and seams of existing membrane (not shown)	Sika Flexitape Heavy
5. Sikalastic® Primer	Refer to the specific Sikalastic® roof system for primer selection
6. Existing Roof Assembly	Refer to the specific Sikalastic® roof system for acceptable existing roof assembly. All existing assemblies must be fully adhered.
7. Structural Deck	22 Ga Steel, 50 mm (2") Wood Plank, 19 mm (¾") Plywood, 20 684 kPa (3000) psi Concrete

Notes:

- Sikalastic® base layer resin and Sikalastic® top layer resin are to be different colours
- Membrane Reinforcement at Transition: Sika Flexitape Heavy
- Install Sika pressure sensitive Aluminum Tape as a barrier between the Sikalastic® RoofCoat membrane and Air Vapour Barriers
- A continuous air seal is required at perimeter edge for example refer to Section 8 standard details
- Refer to appendix Section 8 for typical standard details

Warranty Types:

1. Material: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin only
2. Material & Labour: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin and labour to install the Sikalastic® Resin

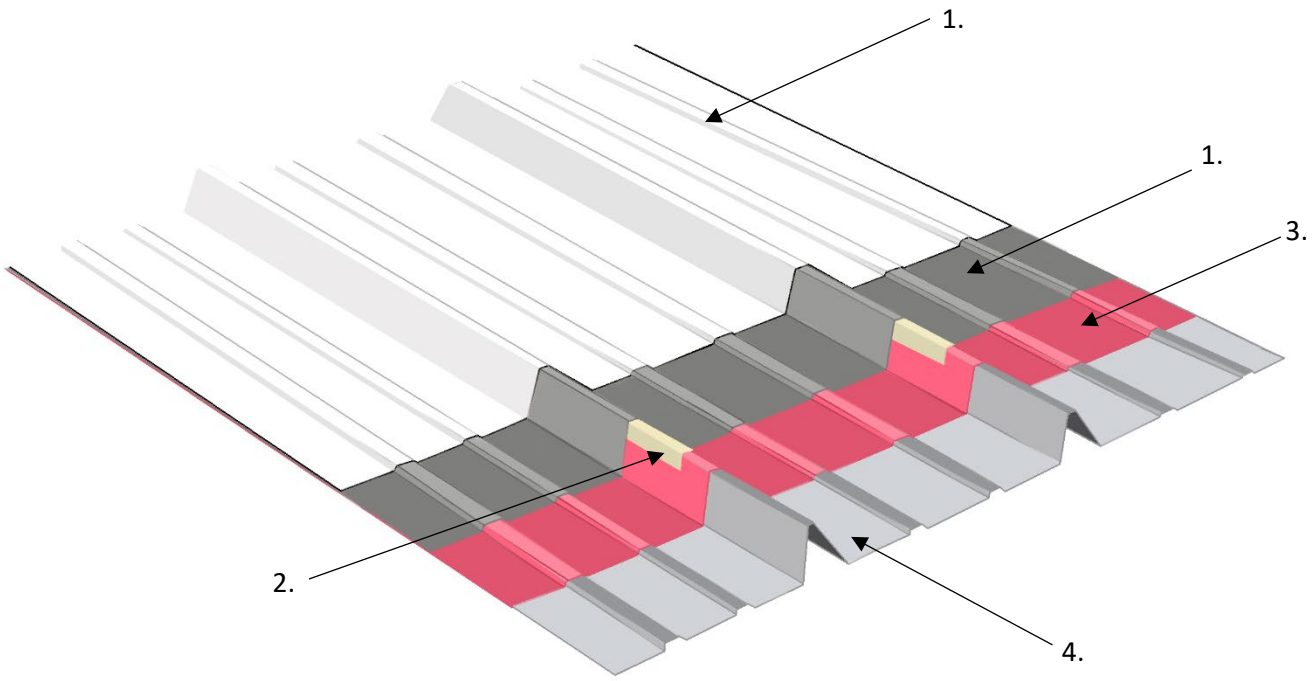
Warranty Duration:

- Material: 5, 10, 15 or 20 years
- Material & Labour: 5, 10, 15 or 20 years

Warranty Notes:

- Sika does not provide site inspections for Sikalastic® RoofCoat applications
- Refer to Section 7g warranty selection guide for application rates and reinforcement requirements

b. Metal Recovers



Cross Section Layer Metal Recover	Approved Materials
1. Sikalastic® Resin	Sikalastic®-626, Sikalastic®-646 Lo-VOC
2. Sikalastic® Reinforcement	Sika Flexitape Heavy, Sika Joint Tape SA
3. Sikalastic® Primer	Refer to the specific Sikalastic roof system for primer selection
4. Existing Metal Roof	Note: If there are existing paint or coatings a surface evaluation and field adhesion testing is required

Notes:

- Refer to Section 7h warranty selection guide for applications for Sikalastic® RoofPro Resin application rates.
- Sikalastic® base layer resin and Sikalastic® top layer resin are to be different colours
- Membrane Reinforcement at Transition: Sika Flexitape Heavy, Sika Joint Tape SA
- Install Sika pressure sensitive Aluminum Tape as a barrier between the Sikalastic® RoofCoat membrane and Air Vapour Barriers
- A continuous air seal is required at perimeter edge for example refer to Section 8 standard details
- Refer to appendix Section 8 for typical standard details

Warranty Types:

1. Material: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin only
2. Material & Labour: replacement of Sikalastic® Resin as a result of manufacturing defects in Sikalastic® Resin and labour to install the Sikalastic® Resin

Warranty Duration:

1. Material: 5, 10, 15 or 20 years
2. Material & Labour: 5, 10, 15 or 20 years

Warranty Notes:

- Sika does not provide site inspections for Sikalastic® RoofCoat applications
- Refer to Section 7g warranty selection guide for application rates and reinforcement requirements

6. TYPICAL PRODUCTS

For a complete listing of all of our available products, please contact your local Technical Sales Representative or refer to the price list. Refer to the PDS, specifications, application manuals, guides for additional product information and application information.

VAPOUR RETARDERS

Sarnavap 6 & 10
Polyethylene vapour retarder/air barriers for use within Sikalastic® RoofPro insulated roof systems.

Vapor Retarder SA 31
0.8 mm (31 mil) thick, self-adhesive vapour retarder/air barrier for use within Sikalastic® RoofPro insulated roof systems. It can also serve as temporary roof protection in areas limited to light construction traffic. It can be left exposed for up to two (2) months.

Vapor Retarder SA 106
2.7 mm (106 mil) thick, self-adhesive vapour retarder/air barrier for use within Sikalastic® RoofPro insulated roof systems. It can also serve as temporary roof protection. It can be left exposed for up to six (6) months.

Vapor Retarder TA 138 (Concrete Only) (Torch-Applied)
3.5 mm (138 mil) thick, torch-applied SBS modified-bitumen polyester reinforced vapour retarder for use within Sikalastic® RoofPro insulated roof systems. It can also serve as temporary roof protection. It can be left exposed for up to six (6) months.

INSULATION

Sarnatherm® ISO
Rigid, closed cell, polyisocyanurate insulation board with fibre-reinforced felt facers and is suitable for use in new construction and re-roofing with Sikalastic® RoofPro membranes. Sarnatherm® ISO is available as flat or tapered board. Sarnatherm® ISO is available with a compressive strength of 138 kPa (20 psi) or 172 kPa (25 psi).

Sarnatherm® CG

Rigid, closed cell, polyisocyanurate insulation board with coated glass facers. Sarnatherm® CG is suitable for use in new construction and re-roofing with Sikalastic® RoofPro membranes. Sarnatherm® CG is available with a compressive strength of 138 kPa (20 psi) or 172 kPa (25 psi).

Notes:
1. When insulation is to be secured to the deck with fasteners and plates, the fastener must have 25 mm (1 in) penetration into the steel or plywood decks, and embedment into concrete or wood plank decks.
2. Use two (2) layers of insulation when total thickness of Sarnatherm® exceeds 69 mm (2.7 in). Stagger joints in both directions at least 300 mm (12 in) between layers.
3. When adhering Sarnatherm® insulation use 1,20 m x 1,20 m (4 ft x 4 ft) boards only.

BOARD ADHESIVES

Sarnacol®-2163 Board Adhesive
Two-component, foamable, polyurethane board adhesive that is applied in one step and sets up in minutes. Sarnacol®-2163 Board Adhesive is used to bond insulation and cover boards to approved substrates, vapour retarders and/or to intermediate insulation boards.

Sarnacol® LRA
Two-component, foamable, polyurethane board adhesive that is applied in one step and sets up in minutes. Sarnacol® LRA is used to bond insulation and cover boards to approved substrates, vapour retarders and/or to intermediate insulation boards.

Sarnacol® OM (WG) Board Adhesive
Two-component, foamable, polyurethane board adhesive that is applied in one step and sets up in minutes. Sarnacol® OM (WG) Board Adhesive is used to bond insulation and cover boards to approved substrates, vapour retarders and/or to intermediate insulation boards.

FASTENERS AND PLATES

Sarnaplate
Specially designed stress plate used with approved Sarnafasteners to attach Sarnatherm® insulation, Sarnatherm® roof boards, gypsum roof boards, or other Sika approved boards directly to the roof deck prior to the installation of the Sikalastic® RoofPro roof membrane.

Sarnastop
Sarnastop is an aluminum alloy bar used with approved fasteners to clamp Sikalastic® membrane to the roof deck, walls, curbs, and other details.

Sarnafastener #14
Threaded drill point fastener used within Sikalastic® RoofPro roof systems to attach Sarnatherm® insulation boards, gypsum roof boards, or other Sika approved boards into structural concrete 63-68 kg/m (140 - 150 lb/ft), wood planks (min. 38 mm (1-1/2")), or plywood sheathing (min. 12 mm (1/2")).

Sarnafastener #15 XP

Threaded drill point fastener used within Sikalastic® RoofPro roof systems to attach Sarnatherm® insulation boards, gypsum roof boards, or other Sika approved boards into steel decking (18 – 24 gauge), wood planks (min. 38 mm (1–1/2")), or plywood sheathing (min. 12 mm (1/2")).

Fastener CD-10
Non-threaded hammered in fasteners used within Sikalastic® RoofPro roof systems to attach Sarnatherm® insulation boards, gypsum roof boards, other Sika approved boards, and Sika approved accessories into structural concrete.

COVER BOARD / THERMAL BARRIER

DensDeck® Prime Roof Board
Thermal barrier and cover board used in Sikalastic® RoofPro roof systems that have been enhanced to provide a broader compatibility and higher performance with adhesives and self adhered vapour barriers.

REINFORCEMENTS

Reemat Premium
Surface treated, randomly oriented glass-fibre reinforcement to enhance the strength and durability of Sikalastic®-621, -624 WP, -641 Lo-VOC and -644-Lo-VOC roofing membranes. Ideal for roofing applications displaying complex details and geometry or where visibility of reinforcement overlaps is an aesthetic concern.

Sika Flexitape Heavy
Double knit, polyester mesh reinforcement to enhance the strength and durability of Sikalastic® roofing membranes at joints, cracks, and angle changes. Reinforcement of joints moving and non-moving cracks, cold joints, joints between dissimilar materials, walls/deck intersections and flashing reinforcement.

Sika Joint Tape SA
Self-adhering polymeric rubberized tape with plastic release liners on the underside and woven polyester facer on top sides. Enhances the strength and durability of Sikalastic® roofing membranes at joints and angle changes. Reinforcement of joints between cover boards, joints between plywood deck panels, joints and seams in metal roofing and stripping in of metal flanges to structural deck

PRIMERS

Sika Bonding Primer
Two-component, water-based epoxy primer to consolidate substrates and enhance the adhesion of Sikalastic® RoofPro systems

Sikalastic® EP Primer
Two-component, universal primer, consisting of an epoxy resin (Part A), and an activator (Part B). In its wet, mixed state, it displays a red colour.

Sikalastic® EP Primer Rapid
Two-component, universal fast-curing primer, consisting of an epoxy resin (Part A), and an activator (Part B). In its wet, mixed state, it displays a red colour.

Sika® Concrete Primer
Two-component, rapid curing, high solids, polyurea/polyurethane-hybrid primer for consistent and durable adhesion of Sikalastic® RoofPro Systems.

RESINS

Sikalastic® RoofPro

Sikalastic®-621
Single-component, cold-applied, highly elastic, aliphatic, moisture-triggered polyurethane resin, designed for easy application as part of Sikalastic®-621 RoofPro reinforced roofing systems. Sikalastic®-621 may only be used by experienced professionals.

Sikalastic®-641 Lo-VOC
Single-component, cold-applied, highly elastic, aliphatic, low-odour, low-VOC moisture-triggered polyurethane resin, designed for easy application as part of Sikalastic®-641 Lo-VOC RoofPro reinforced roofing systems.

Sikalastic®-624 WP
Single-component, cold-applied, highly elastic, aliphatic, alkali resistant, moisture-triggered polyurethane resin, designed for easy application as part of Sikalastic®-624 RoofPro reinforced roofing systems.

Sikalastic®-644 Lo-VOC
Single-component, cold-applied, highly elastic, aliphatic, alkali resistant, moisture-triggered polyurethane resin, designed for easy application as part of Sikalastic®-644 Lo-VOC RoofPro reinforced roofing systems.

Sikalastic® RoofCoat

Sikalastic®-626
Single-component, cold-applied, high elastic, aliphatic, liquid-applied, moisture-triggered polyurethane roof coating designed for easy application as part of Sikalastic®-626 RoofCoat locally reinforced roof membrane. Effective and cost-efficient life cycle extension of existing roofs.

Sikalastic®-646 Lo-VOC
Single-component, cold-applied, highly elastic, aliphatic, liquid-applied, low odour, low VOC, moisture-triggered polyurethane roof coating designed for easy application as part of Sikalastic®-646 Lo-VOC RoofCoat locally reinforced roof membrane. Effective and cost-efficient life cycle extension of existing roofs.

ACCESSORIES

Aluminum Tape
Aluminum foil faced pressure sensitive taping, which allows for a separation barrier between contaminated/non-compatible materials and Sikalastic® RoofPro and Sikalastic® RoofCoat membranes.

SikaLastomer®-65
High-performance sealant tape with superior surface tack that remains elastic and is designed to bond to Sikalastic® RoofPro and Sikalastic® RoofCoat membranes and a variety of metals.

Surfacing Aggregate Selection

Clean, rounded, or semi-angular, oven-dried quartz sand with a minimum hardness of 6.5 per the Moh's scale. Supplied in pre-packaged bags and free of metallic or other impurities. The following size gradations are recommended: 16–30 or 20–40 mesh.

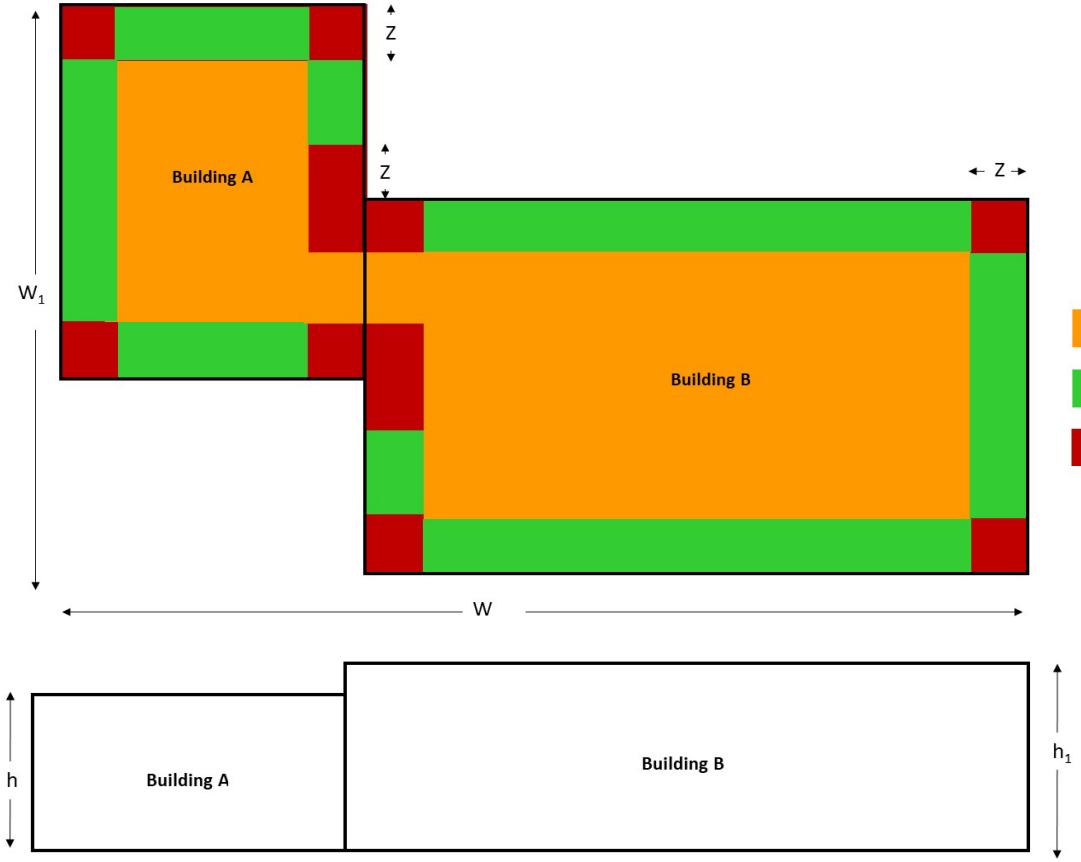
Or

Sika® DecoQuartz® or Sika® DecoFlake® blends. Virgin vinyl flakes supplied in pre-packaged bags and free from impurities. Seal with a coat of Sikalastic®-748 PA at 15 mil (wet film thickness).

7. GUIDES

a. Roof Zone Guide

STEPPED 1



Criteria:

- h < 65 ft.
- slope: 0° α < 7° (0 α 1.5/12)
- Elevation of Building B is less than 10 ft. above the Elevation of Building A (h_1 - h < 10ft.)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise

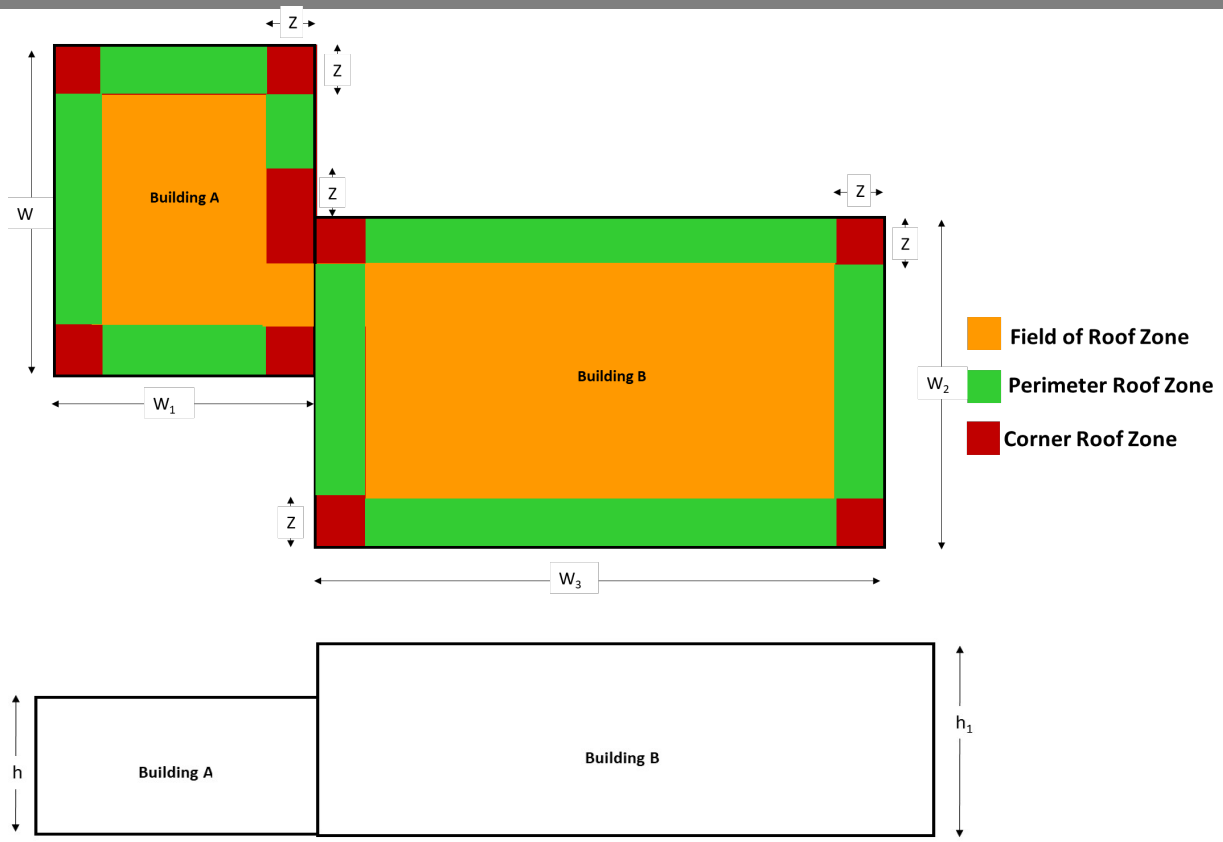
Field of Roof Zone

Perimeter Roof Zone

Corner Roof Zone

Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

STEPPED 2

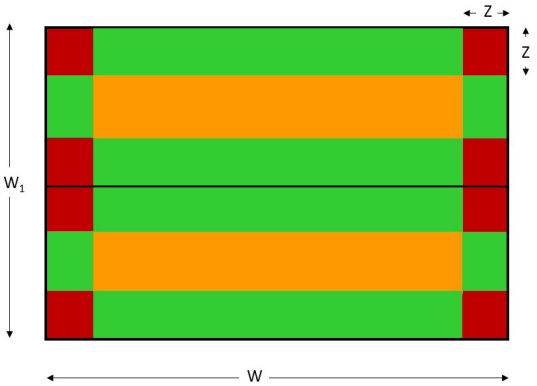


Criteria:

- h < 65 ft.
- slope: 0° α < 7° (0 α 1.5/12)
- Elevation of Building B is greater than 10 ft. above the Elevation of Building A (h_1 - h > 10ft.)
- h < W_1 (lessor Building Plan dimension)
- h_1 < W_2 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise
- if h_1 > W_2 refer to High Rise

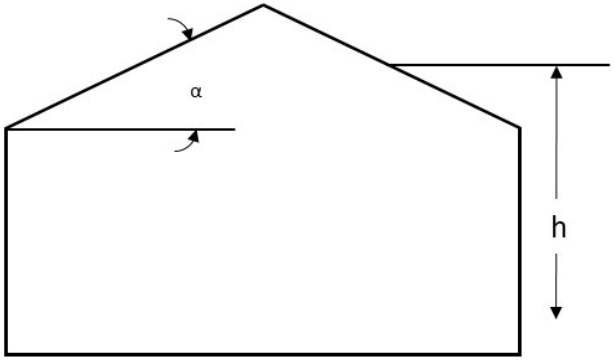
Note: Z is to be calculated separetly for Building A and Building B.
Building A, Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1.

GABLE



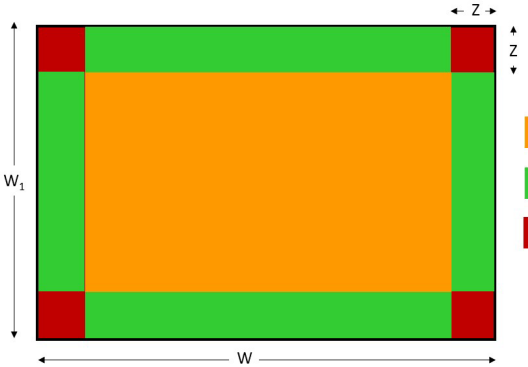
Criteria:

- h < 65 ft.
- slope: 7° α < 45° (1.5/12 α 12/12)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise



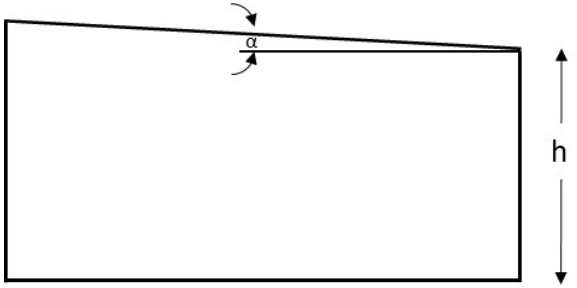
Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than

MONOSLOPE 1



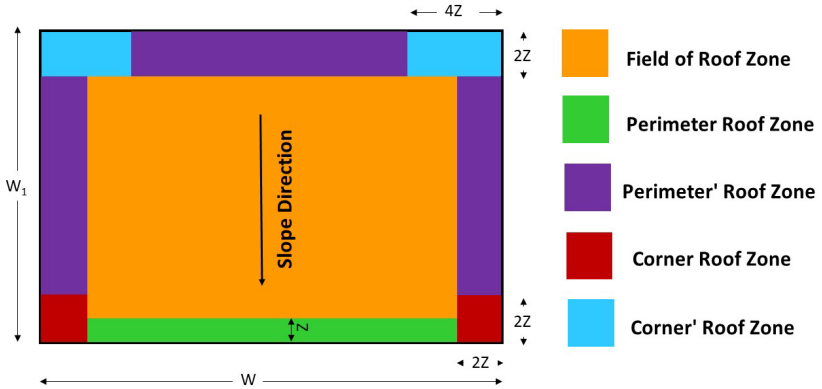
Criteria:

- h < 65 ft.
- slope: 0° α < 3° (0 α .62/12)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise



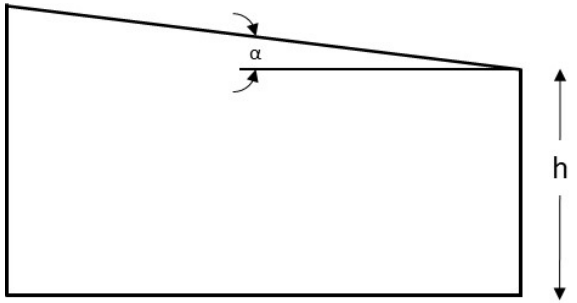
Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

MONOSLOPE 2



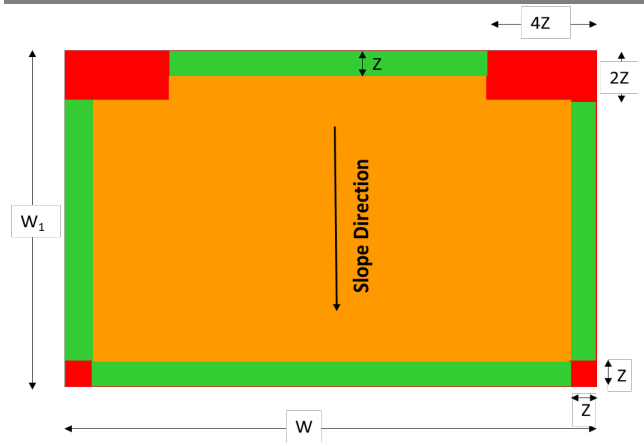
Criteria:

- h < 65 ft.
- slope: 3° α < 10° (.6/12 α 2.1/12)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise



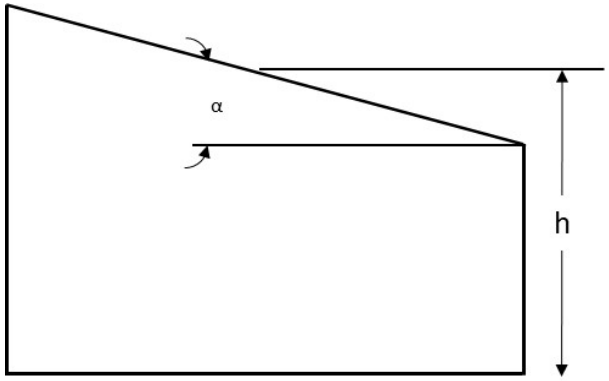
Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

MONOSLOPE 3



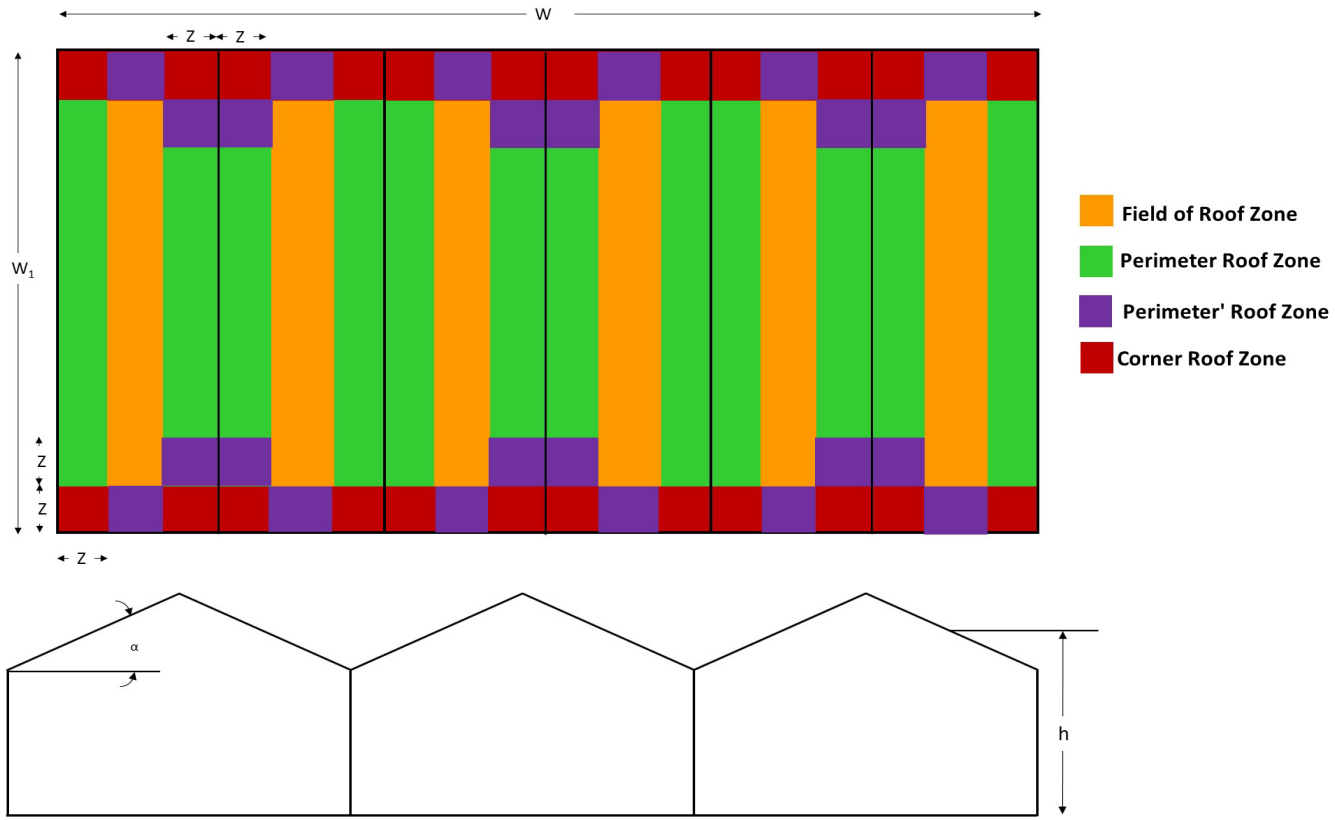
Criteria:

- h < 65 ft.
- slope: 10° α < 30° (2.1/12 α 6.9/12)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise



Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

MULTISPAN

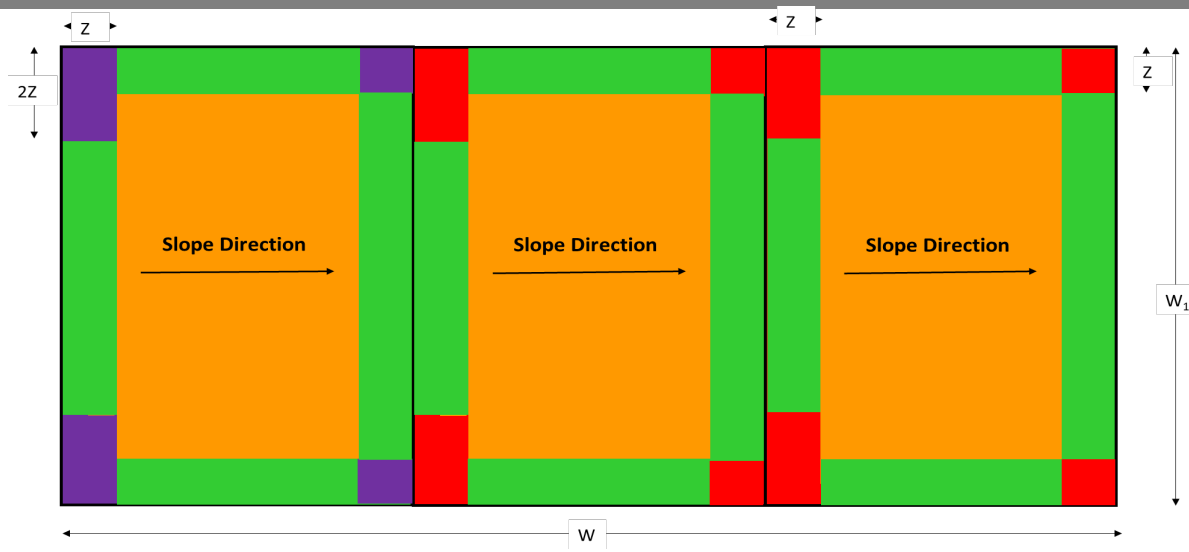


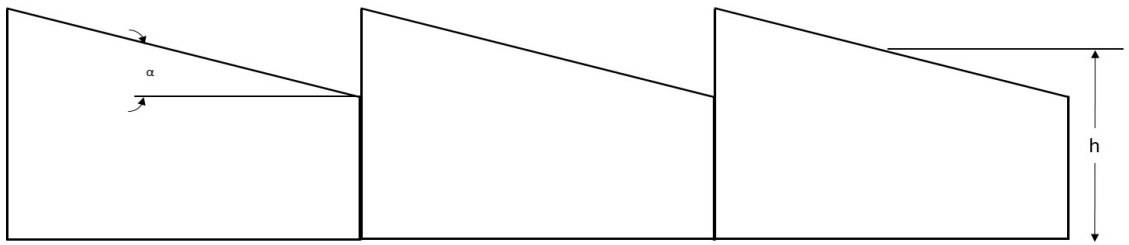
Criteria:

- h < 65 ft.
- slope: 10° α < 45° (2.1/12 α 12/12)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise

Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

SAWTOOTH





Criteria:

- h ≤ 65 ft.
- slope: 10° α ≤ 30° (2.1/12 α 6.9/12)
- h < W_1 (lessor Building Plan dimension)
- if h > W_1 refer to High Rise

Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

b. Roof System Attachment Guide

CONVENTIONAL INSULATED SYSTEMS							
RoofPro 621, RoofPro 624 WP, Roof Pro 641 Lo-VOC or RoofPro 644 Lo-Voc							
Deck[3]	Thermal Barrier[4]	Vapour Retarder	Insulation	Cover Board	Field of Roof Pressure	Zones	Attachment
Steel, Wood Plank, Plywood	Minimum 1/2" DensDeck Prime	Vapour Retarder SA 31 or SA 106	Min 2" Sarnatherm (CG) - maxiumum board size is 4ft. X 4ft.	Minimum 1/4" DensDeck Prime	35 psf	Field:	Thermal Barrier fastened at 1 per 4 sqft
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 12" o.c.
						Perimeter:	Thermal Barrier fastened at 1 per 2.67 sqft
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 6" o.c.
						Corner:	Thermal Barrier fastened at 1 per 1.33 sqft
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 4" o.c.
Steel, Wood Plank, Plywood	Minimum 1/2" DensDeck Prime	Vapour Retarder SA 31 or SA 106	Min 2" Sarnatherm (CG) - maxiumum board size is 4ft. X 4ft.	Minimum 1/4" DensDeck Prime	50 psf	Field:	Thermal Barrier fastened at 1 per 2.67 sqft
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 12" o.c.
						Perimeter:	Thermal Barrier fastened at 1 per 1.78 sqft
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 6" o.c.
						Corner:	Thermal Barrier fastened at 1 per 1 sqft
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 4" o.c.
Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika® [1,2]	Min 2" Sarnatherm (CG)	Minimum 1/4" DensDeck Prime	35 psf	Field:	Insulation/Cover Board fastened 1 per 4 sqft.
						Perimeter:	Insulation/Cover Board fastened 1 per 2.67 sqft.
						Corner:	Insulation/Cover Board fastened 1 per 1.33 sqft.
Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika® [1,2]	Min 2" Sarnatherm (CG)	Minimum 1/2" DensDeck Prime	50 psf	Field:	Insulation/Cover Board fastened 1 per 4 sqft.
						Perimeter:	Insulation/Cover Board fastened 1 per 2.67 sqft.
						Corner:	Insulation/Cover Board fastened 1 per 1.33 sqft.
Steel	minimum 1/2" DensDeck Prime	Vapour Retarder SA 31 or SA 106	Min 2" Sarnatherm (CG) - maxiumum board size is 4ft. X 4ft.	Minimum 1/4" DensDeck Prime	45 psf	Field:	Thermal Barrier with LRA @ 6" o.c.
							Insulation/Cover Board adhered with LRA @ 12" o.c.
						Perimeter:	Thermal Barrier with LRA @ 6" o.c.
							Insulation/Cover Board adhered with LRA @ 6" o.c.
						Corner:	Thermal Barrier with LRA @ 6" o.c.
							Insulation/Cover Board adhered with LRA @ 4" o.c.
Structural Concrete	N.A.	Vapour Retarder SA 31, SA 106 or TA 138	Min 2" Sarnatherm (CG) - maxiumum board size is 4ft. X 4ft.	Minimum 1/4" DensDeck Prime	60 psf	Field:	Insulation/Cover Board adhered with LRA @ 12" o.c.
						Perimeter:	Insulation/Cover Board adhered with LRA @ 6" o.c.
						Corner:	Insulation/Cover Board adhered with LRA @ 4" o.c.
Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika® [1,2]	Min 2" Sarnatherm (CG)	Minimum 1/4" DensDeck Prime	37.5 psf	Field:	Insulation Board fastened 1 per 4 sqft.
							Cover Board adhered with Sarancol Low Rise Board Adhesive @ 12" o.c.
						Perimeter:	Insulation Board fastened 1 per 2.67 sqft.
							Cover Board adhered with Sarancol Low Rise Foam @ 12" o.c.
						Corner:	Insulation/Cover Board fastened 1 per 1.78 sqft.
							Cover Board adhered with Sarancol Low Rise Foam @ 6" o.c.

CONVENTIONAL INSULATED SYSTEMS

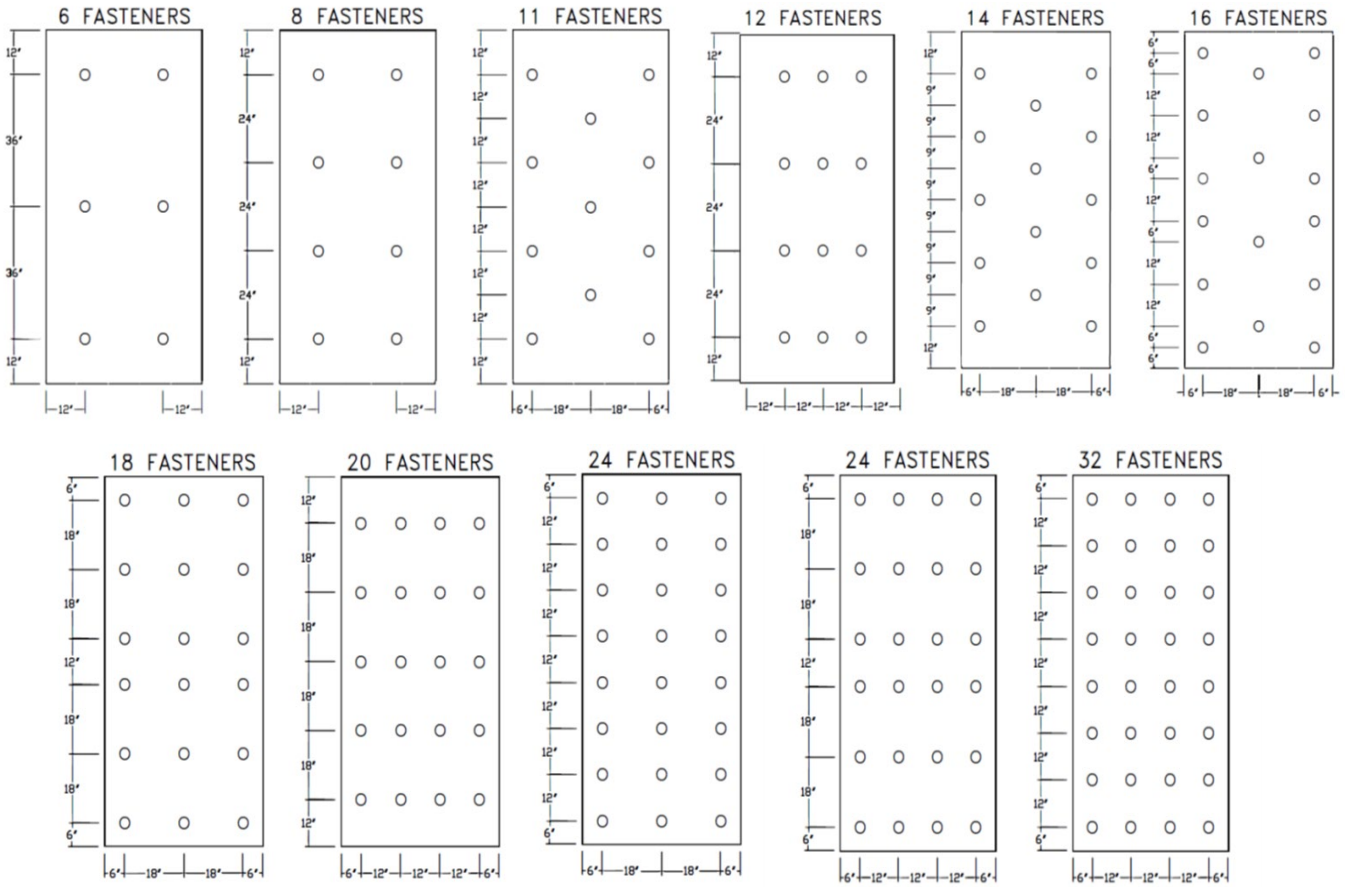
RoofPro 621, RoofPro 624 WP, Roof Pro 641 Lo-VOC or RoofPro 644 Lo-Voc

Steel	Minimum 1/2" DensDeck Prime	Vapour Retarder SA 31 or SA 106	Min 2" Sarnatherm (CG) - maxiumum board size is 4ft. X 4ft.	Minimum 1/4" DensDeck Prime	60 psf	Field:	Thermal Barrier with Sarnacol Low Rise Board Adhesive @ 6" o.c.
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 12" o.c.
						Perimeter:	Thermal Barrier with Sarnacol Low Rise Board Adhesive @ 6" o.c.
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 6" o.c.
						Corner:	Thermal Barrier with Sarnacol Low Rise Board Adhesive @ 6" o.c.
							Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive @ 4" o.c.

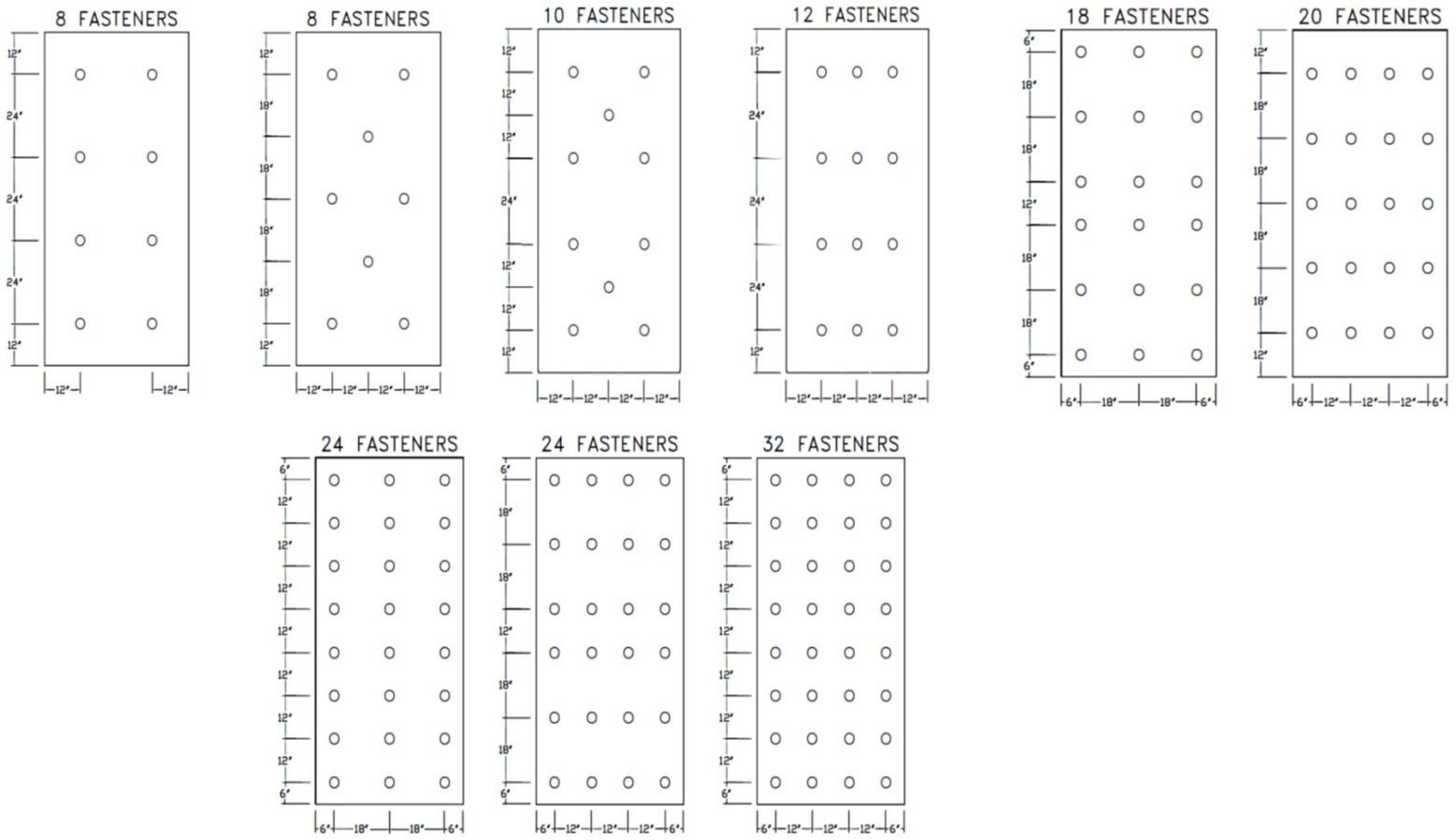
General Notes:
Contact Sika Technical for specific testing requirements.
Specific Notes:
1. Vapour Retarder TA 138 only used on concrete decks
2. Vapour Retarder SA 31 and SA 106 may require a min 1/2" Thermal Barrier except on concrete decks
3. Structural Concrete (min. 3000 psi), Steel (min. 22Ga 33.4 KSI) , Wood Plank (min. 2"), Plywood (min. 3/4")
4. Minimum Thermal Barrier is 1/2" DensDeck (Prime)
For up to date and accurate information, please consult the current Product Data Sheet for all Sika products at www.sika.ca

c. Attachment Guide - Boards

SARNATHERM 4 FT. X 8 FT. BOARDS



DENSDECK (PRIME) 4 FT. X 8FT. BOARDS



d. Vapour Retarder Selection Guide

Sheet Products	Sarnavap 6	Sarnavap 10	Vapor Retarder SA 31	Vapor Retarder SA 106	Vapor Retarder TA 138
Roll Size	20' x 100' (6.9m x 30.5m)	20' x 100' (6.9m x 30.5m)	44.8" x 133.8' (1.14m x 40.8m)	39.4" x 49.2' (1m x 15m)	39.4" x 32.8' (1m x 10m)
Application Type	Loose laid	Loose laid	Self-Adhered	Self-Adhered	Torch Applied
Temperature at Application	Any	Any	14°F (-10°C) & above	40°F (-5°C) & above	Any
Substrates[1]	Any	Any	Concrete, Steel[2], Approved Gypsum Boards, Plywood	Concrete, Steel[2], Approved Gypsum Boards, Plywood	Concrete
Primer	None	None	Vapor Retarder Primer SB, Vapor Retarder Primer VC, Vapor Retarder Primer WB	Vapor Retarder Primer SB, Vapor Retarder Primer VC, Vapor Retarder Primer WB	Vapor Retarder Primer TA
Seams	Sikalastomer 65	Sikalastomer 66	Self-Adhered	Self-Adhered Side Laps, Heat Welded End Laps	Torch Applied
Temporay Roof	No	No	2-months[3]	6-months	6-months
WV Permeance E96: perms (ng/[Pa·s·m^2])	.263 (15)	0.019 (1.07)	0.018 (1.04)	0.010 (0.543)	0.006 (0.320)
WV Transmission E96: g/[hr·m 2] (g/[24hr·m 2])	NA	0.0054 (0.1304)	0.0070 (0.168)	0.0099 (0.2384)	0.0055 (0.1312)
Air Flow Rate At 75 Pa E2178: L/[s·m^2] (L/[Pa·s·m^2])	NA	<0.0002 (<0.000008)	<0.0003 (<0.000012)	0.0004 (0.000005)	0.0004 (0.000005)
Roof Board Application	Mechanically Attached or Loose Laid	Mechanically Attached or Loose Laid	Adhered, Mechanically Attached or Loose Laid	Adhered, Mechanically Attached or Loose Laid	Adhered, Mechanically Attached or Loose Laid
Primer Products	**Colour**	**Substrates**	**Application Temperature**	**Coverage Rates**	**VOC (g/L)**
Vapor Retarder Primer SB (solvent-based)	Red	Concrete, Approved Gypsum Boards, Plywood	14°F (-10°C) & above	83-138 sf/gal porous 166-416 sf/gal non-porous	500
Vapor Retarder Primer VC (low VOC)	Green	Concrete, Approved Gypsum Boards, Plywood	14°F (-10°C) & above	104-208 sf/gal porous 166-416 sf/gal non-porous	0 with exemption (EPA)* 240 (SCAQMD)* 476.3 w/o exemption*
Vapor Retarder Primer WB (water-based)	Blue	Concrete, Approved Gypsum Boards, Plywood	25°F (-4°C) & above	208 sf/gal depending on porosity	0
Vapor Retarder Primer TA (torch-applied)	Black	Concrete	14°F (-10°C) & above	166-277 sf/gal depending on porosity	340

Notes:

[1] Substrates require priming (primer not required when using Vapor Retarder PE 6 or 10) and must be clean, cured, dry, and free of dirt, dust, oil and debris. Steel substrates do not need priming but must be clean, dry and free of dirt, dust, oil and debris.

[2] Except on FM insured projects. Meets reuirements for UL

[3] Light construction traffic

* The U.S. EPA considers the solvents in Vapor Retarder Primer VC as "exempt", and therefore the product's VOC content can be considered "0 g/l" and used in all jurisdictions operating under the EPA guidelines. At this time, the SCAQMD does not recognize the TBAc solvent as "exempt", and therefore the primer's VOC content is "240 g/l" when used in jurisdictions operating under their guidelines.

Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

Use Mastic at and around all penetrations except on Vapor Retarder PE 6 or PE 10 applications, use Multi-Purpose Tape.

e. Adhesive Selection Guide

Board Adhesive Product	Use	Application Temp. Restriction [1]	Dew Point Restriction - Not within 3°C (5°F) of the Dew point	LEED Compliant	VOC Content
Sarnacol LRA	Insulation / Coverboard	4°C (40°F)	No	Yes	11 g/L
Sarnacol 2163		minus 15°C (0°F)			18 g/L
Sarnacol AD Board Adhesive					32 g/L
Sarnacol OM Board Adhesive		4°C (40°F)			11 g/L
Sarnacol OM Board Adhesive WG		minus 18°C to 18°C (0 to			50 g/L

Board Adhesive Product	Packaging	Coverage Rate	Approved Substrates:
Sarnacol LRA	Case: 4 - 1.5L Cartridge	600 sqft /case[4]	Approved Sika Vapour Retarders, Sarnatherm, Sarnatherm CG, Sarnatherm HD Roof Board, DensDeck Prime, Conrete, Cellular Concrete, Mineral Surface Asphalt, Aged Smooth Asphalt
Sarnacol 2163	Case: 4 - 1.5L Cartridge	600 sqft /case[4]	
Sarnacol AD Board Adhesive	Bag in Box Kit: Part A & Part B - 18.9 L (5 US Gal) each.	2,500 - 3,000 sqft / kit[4]	
Sarnacol OM Board Adhesive	Case: 4 - 1.5L Cartridge	600 sqft /case[4]	
	Bag in Box Kit: Part A & Part B - 18.9 L (5 US Gal) each.	2,500 - 3,000 sqft / kit[4]	
Sarnacol OM Board Adhesive WG	Case: 4 - 1.5L Cartridge	600 sqft /case[4]	

Notes:

[1] Adhesive shall not be used if temperatures are expected below listed temperature during application or subsequent drying time. Check individual product data sheets for proper storage and conditioning temperatures.

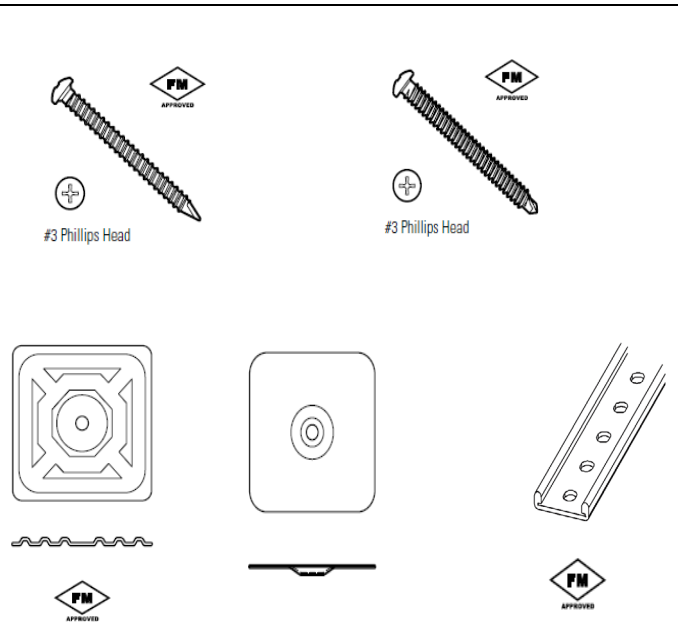
[3] Coverage rate displayed as an average range, bareback vs feltback membrane as well as porous vs non-porous substrates, application method, temperature, and experience with product are some variables which will effect listed values.

[4] Coverage based on 12" o.c. bead spacing.

f. Fasteners & Plates Selection Guide

Fastener	Deck Type[1,2,3]	Lengths
Sarnafastener #14	Structural Concrete, Wood Plank (min 1-1/2"), Plywood (min 5/8")	1 - 1/4" to 14"
Sarnafastener #15 XP	Steel (18 ga - 24 Ga), Wood Plank (min 1-1/2"), Plywood (min 5/8")	1 - 1/4" to 20"
Bar & Plates	**Use**	
Sarnaplate	Board Attachment	
Sarnaplate Low Profile[5]	Board Attachment	
Sarnabar	Termination Securement	

Notes:
1 Fastener is to penetrate the steel, concrete, wood plank deck a minimum 1"
2 Fastener is to penetrate the undeside of the plywood deck by 1/2"
3 Pilot holes are required on structural concretre decks



g. Warranty Selection Guide – Sikalastic® RoofPro

Sikalastic® RoofPro Warranties					
Resin	System	Warranty Length (Years)	Reinforcement	Thickness (wet)	Warranty Type
Sikalastic 621	RoofPro 10	5 or 10	Reemat Premium	Base Layer 35 mil (45 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material, Standard or System
	RoofPro 15	5, 10 or 15	Reemat Premium	Base Layer 45 mil (35 sqft/gal) , Top Layer 30 mil (53 sqft/gal)	Material, Standard or System
	RoofPro 20	5, 10, 15 or 20	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Top Layer 40 mil (40 sqft/gal)	Material, Standard or System
	RoofPro 25	5, 10, 15, 20 or 25	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Intermediate Layer 30 mil (53 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material or System
Sikalastic 641 Lo-VOC	RoofPro 10	5 or 10	Reemat Premium	Base Layer 30 mil (53 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material, Standard or System
	RoofPro 15	5, 10 or 15	Reemat Premium	Base Layer 50 mil (32 sqft/gal), Top Layer 20 mil (80 sqft/gal)	Material, Standard or System
	RoofPro 20	5, 10, 15 or 20	Reemat Premium	Base Layer 50 mil (32 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material, Standard or System
	RoofPro 25	5, 10, 15, 20 or 25	Reemat Premium	Base Layer 50 mil (32 sqft/gal), Intermediate Layer 23 mil (69 sqft/gal), Top Layer 23 mil (69 sqft/gal)	Material or System
Sikalastic 624 WP	RoofPro 15 WP	5, 10 or 15	Reemat Premium	Base Layer 35 mil (45 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material, Standard or System
	RoofPro 20 WP	5, 10, 15 or 20	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Top Layer 40 mil (40 sqft/gal)	Material, Standard or System
	RoofPro 25 WP	5, 10, 15, 20 or 25	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Intermediate Layer 30 mil (53 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material or System
Sikalastic 644 Lo-VOC WP	RoofPro 15 WP	5, 10 or 15	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Top Layer 25 mil (64 sqft/gal)	Material, Standard or System
	RoofPro 20 WP	5, 10, 15 or 20	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Top Layer 30 mil (53 sqft/gal)	Material, Standard or System
	RoofPro 25 WP	5, 10, 15, 20 or 25	Reemat Premium	Base Layer 45 mil (35 sqft/gal), Intermediate Layer 25 mil (64 sqft/gal), Top Layer 25 mil (64 sqft/gal)	Material or System

Notes:

* System warranties require all materials from the structural deck up and supplied by Sika
* Standard warranties require all materials for cover boards, insulation and or thermal barrier fixation/adhesion to be supplied by Sika
* Maximum duration for Standard warranties is 20 years
* Conditions for 25 year warranty - Mechanical fixation is required, for one of the layers (coverboard, insulation or thermal barrier) below the membrane, which incorporate Steel, Wood Plank or
* Conditions for 25 year warranty: Sarnavap 6 NOT permitted, Sarnatherm CG or Rockwool DD and Sika approved cover board are required.
* Vegetative roofs are considered PMR systems. A Sika approved cover board is required if there is insulation below the membrane
* Contact the Technical Representative if Coal Tar Pitch is present in the existing roof system

Consult Product Data Sheets and Application Manual for specific requirements

h. Warranty Selection Guide – Sikalastic® RoofCoat

Sikalastic® Roof Coat Warranties					
Resin	System	Warranty Length	Reinforcement	Thickness (wet)	Warranty Type
Sikalastic 626	RoofCoat 10	5 or 10	Flexitape Heavy[1], Sika Joint Tape SA	Base Layer 35 mil (45 sqft/gal)	Material or Labour & Material
	RoofCoat 15	5, 10 or 15	Flexitape Heavy[1],	Base Layer 35 mil (45 sqft/gal), Top Layer 15 mil (106 sqft/gal)	Material or Labour & Material
	RoofCoat 20	5, 10, 15 or 20	Flexitape Heavy[1],	Base Layer 35 mil (45 sqft/gal), Top Layer 25 mil (65 sqft/gal)	Material or Labour & Material
Sikalastic 646 Lo-VOC	RoofCoat 10	5 or 10	Flexitape Heavy[1],	Top Layer 25 mil (64 sqft/gal)	Material or Labour & Material
	RoofCoat 15	5, 10 or 15	Flexitape Heavy[1], Sika Joint Tape SA	Top Layer 35 mil (45 sqft/gal)	Material or Labour & Material
	RoofCoat 20	5, 10, 15 or 20	Flexitape Heavy[1],	Top Layer 40 mil (40 sqft/gal)	Material or Labour & Material

Notes:

[1] Localized Reinforcement: Sika® Flexitape Heavy embedded in 40-45 wet mils of Sikalastic centered over seams, transitions and properly treated cracks and joints.

* Contact the Technical Representative if Coal Tar Pitch is present in the existing roof system

Consult Product Data Sheets and Application Manual for specific requirements

i. Guideline for Roof Recover

General Criteria:

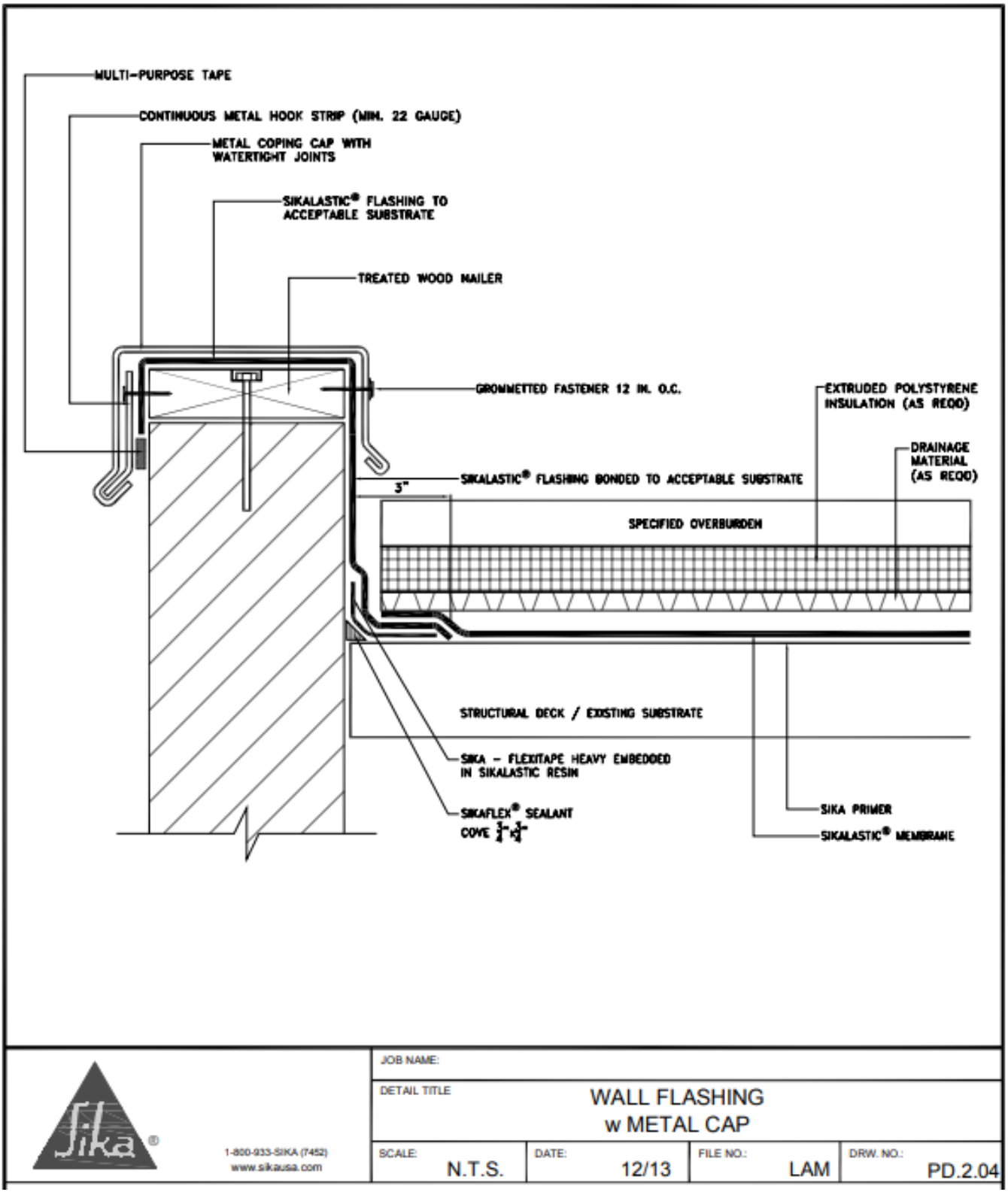
1. The Owner's Representative and Applicator shall determine the condition of the existing roof deck and old roof system.
    a. Areas with deteriorated decking or wet materials are to be removed and replaced.
    b. Acceptable existing roofing must be sound, well adhered, and free of any trapped moisture. Verification that the roof system is free of trapped moisture must be established with a moisture scan and a copy of the moisture scan must be provided to the manufacturer.
2. Existing Fully Adhered Single Ply roofs & Coated roofs.
    a. Surface evaluation and field adhesion testing is required.

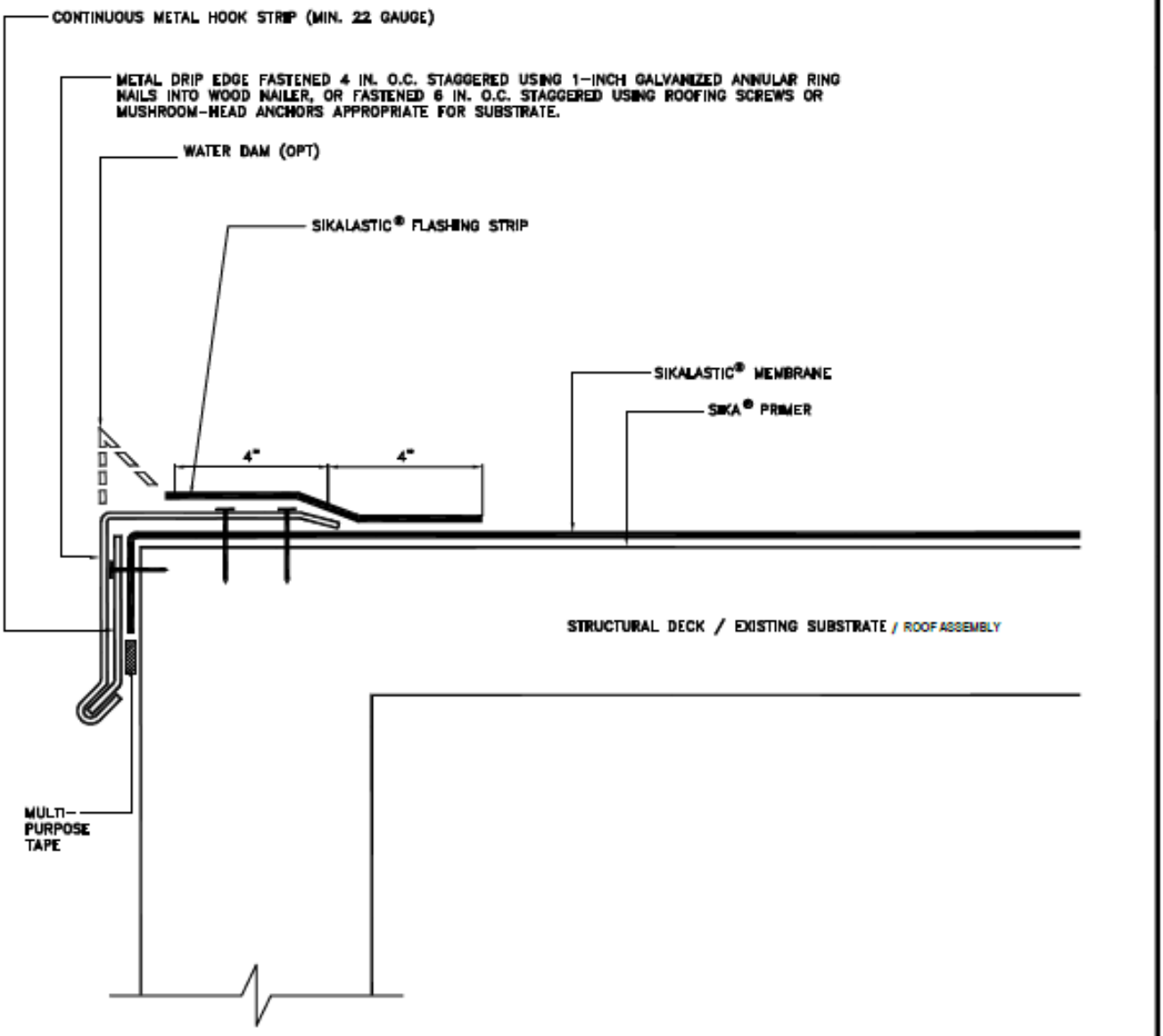
3. Existing gravelled surfaces bitumen roofs.
    a. All gravel and debris shall be removed.
    b. All blisters shall be removed and sealed or cut, fastened down and sealed.
    c. Any accumulation of bitumen or other irregularities shall be scratched and removed to produce a smooth surface.
    d. The surface must be clean and dry
    e. Install a layer of a Sika Canada approved cover roof board or new insulation board (note, approved cover board is required over the new insulation) over the existing roof membrane and then fasten the board according to Sika Canada's requirements.

4. Existing smooth surfaced roofs.
    a. All debris shall be removed
    b. All blisters shall be removed and sealed or cut, fastened down and sealed.
    c. Seal all voids or openings into the existing membrane system. Repair all areas that are wet with like in-kind roofing per allowable building code standards.
    d. The surface must be clean, dry, and sound
    e. All surfaces shall be low-pressure power-washed to remove all dirt, debris or surface contamination that would compromise bonding of the specified roofing membrane system.

Note: Coal-tar pitch or heavily re-saturated roofs, contact Technical Services Roofing, Sika Canada.

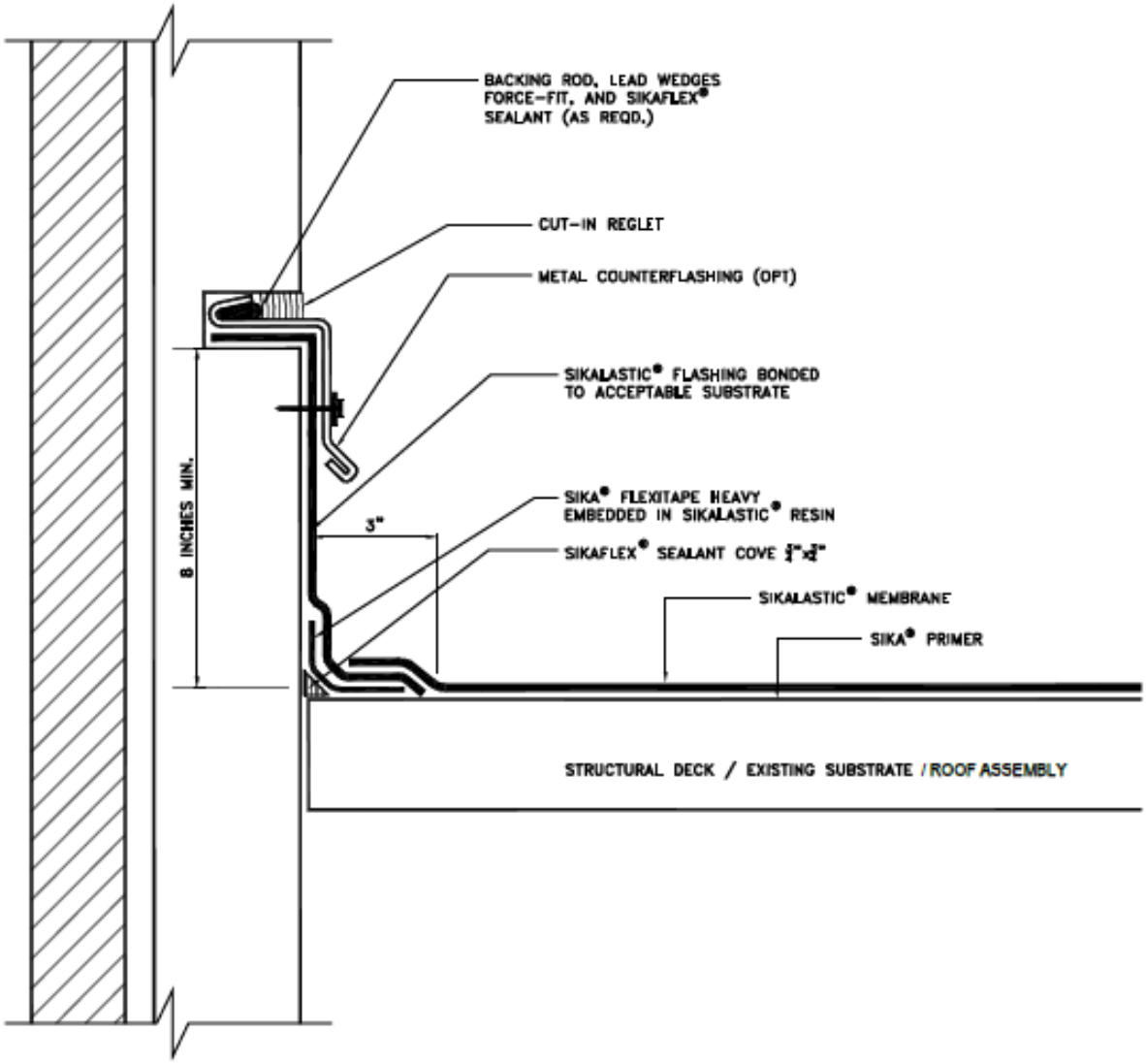
8. TYPICAL DETAIL DRAWINGS





NOTE:
REMOVE ANY EXISTING ROOFING AND METAL EDGE MATERIALS DOWN TO EXISTING WOOD BLOCKING.
ADD ADDITIONAL WOOD NAILER AS REQUIRED TO MATCH HEIGHT OF EXISTING ROOF ASSEMBLY.
EMBED METAL DRIP EDGE FLASHING IN A BEAD OF SIKAFLEX 1A (NOT SHOWN)

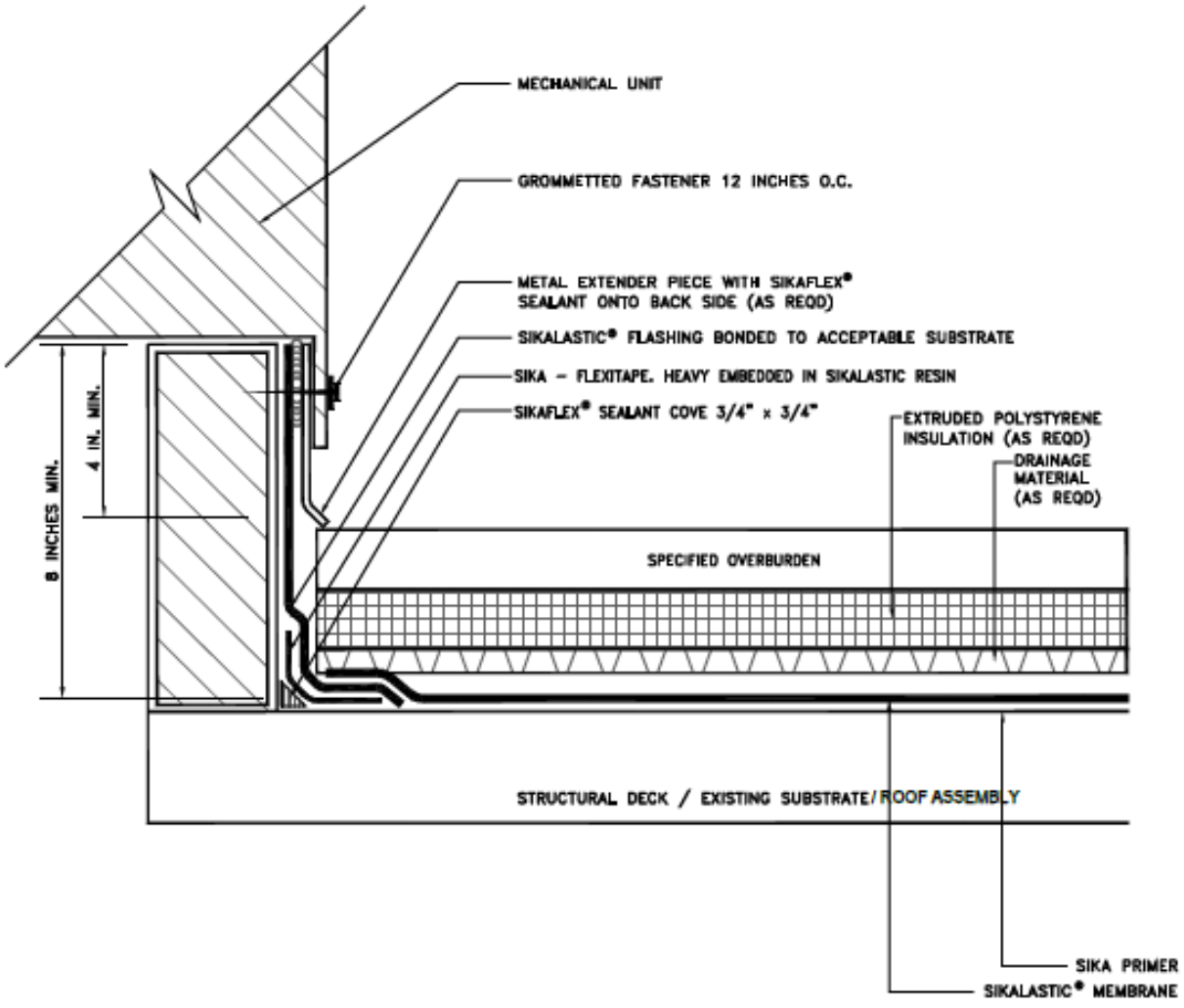
1-800-933-SIKA (7452) www.sikausa.com	JOB NAME:			
	DETAIL TITLE: METAL EDGE			
	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: DS.3.01



NOTES:

1) RAKE OUT EXISTING SEALANT AT REGLET. ADD NEW LEAD-WEDGES IF NEEDED, AND RECAULK AS REQUIRED.

1-800-933-SIKA (7452) www.sikausa.com	JOB NAME:			
	DETAIL TITLE: BASE FLASHING			
	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: DS.2.01



NOTES:

1) METAL EXTENDER IS REQUIRED IF COUNTER FLASHING FASCIA IS LESS THAN 4 INCH WIDE. FASTENED 12 INCHES O.C. WITH GROMMETTED FASTENER.

1-800-933-SIKA (7452) WWW.SIKAUSA.COM	JOB NAME:			
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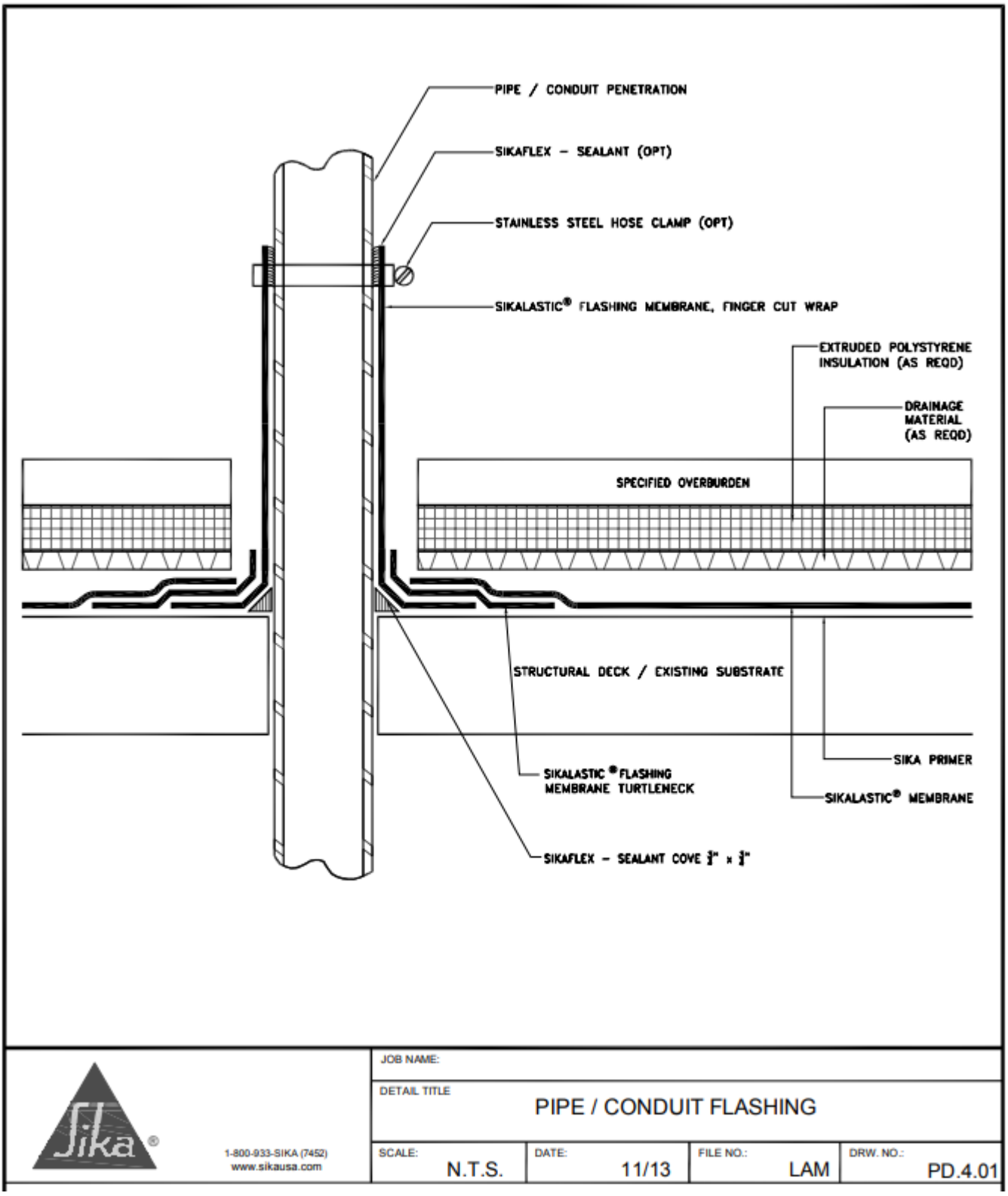
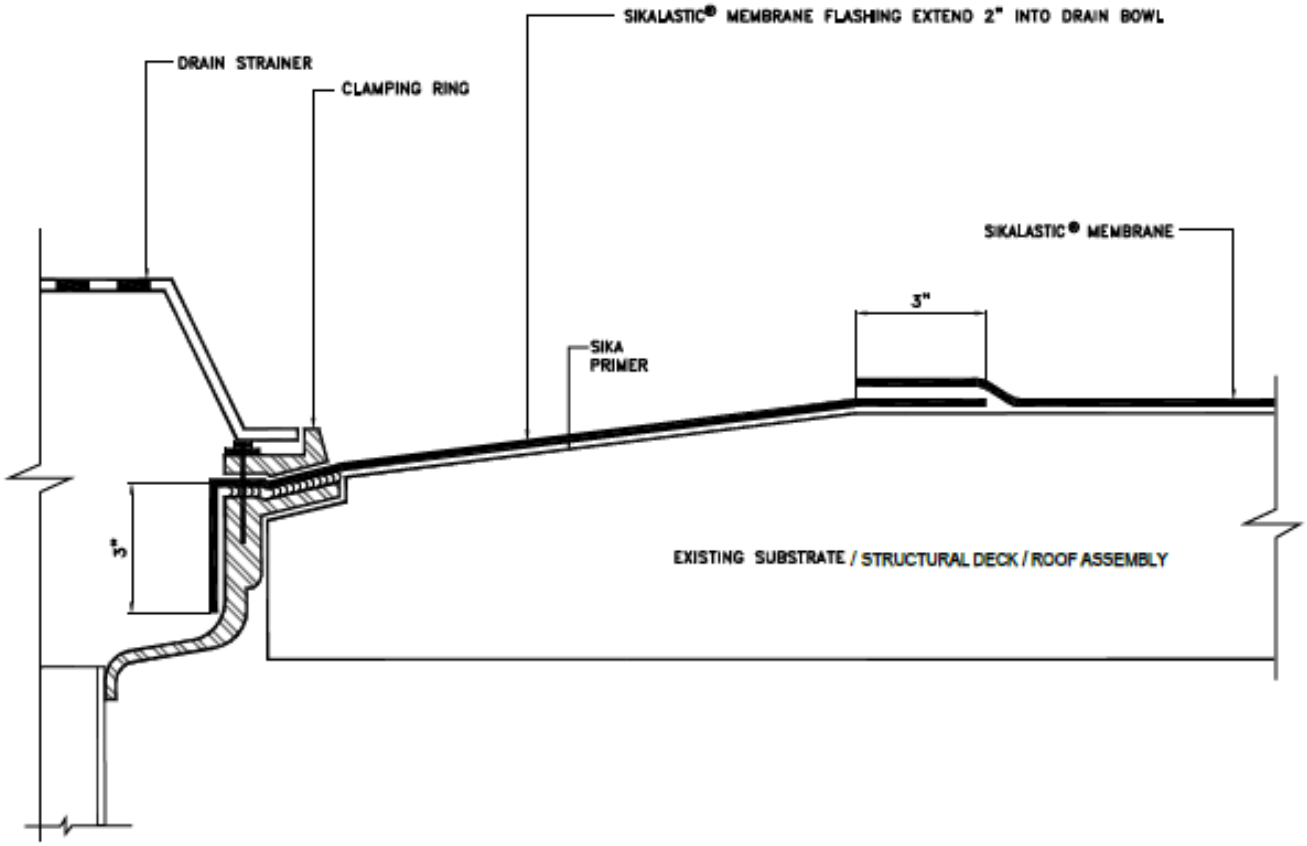


1-800-933-SIKA (7452) www.sikausa.com	JOB NAME:			
	DETAIL TITLE: PIPE / CONDUIT FLASHING			
	SCALE: N.T.S.	DATE: 11/13	FILE NO.: LAM	DRW. NO.: PD.4.01



NOTES:
1) EXISTING DRAIN BOWL, CLAMPING RING AND DRAIN ACCESSORIES ARE TO BE CLEANED FREE OF ALL CONTAMINATES.

1-800-933-SIKA (7452) www.sikausa.com	JOB NAME:			
	DETAIL TITLE: DRAIN FLASHING			
	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: DS.5.01