

Wetguard[®] 200 SA

Installation Guide
For Moisture Protection
of Wooden Elements

Introduction

These guidelines will outline the materials and process required to achieve a temporary moisture protection layer during the construction phase of buildings susceptible to moisture damages through extended water exposure.

Diligence paid to sealing techniques and proper detailing is crucial in creating a watertight installation of the product.

These instructions do not replace any national, provincial, or local building codes. Install all products in accordance with manufacturer's specifications, local building codes, or (where applicable) specifications established by the licensed design professional.

Regional standard practices, environmental conditions, and codes may vary and supersede the procedures contained within. The responsibility for compliance is yours: the installer, inspector, and owner(s).

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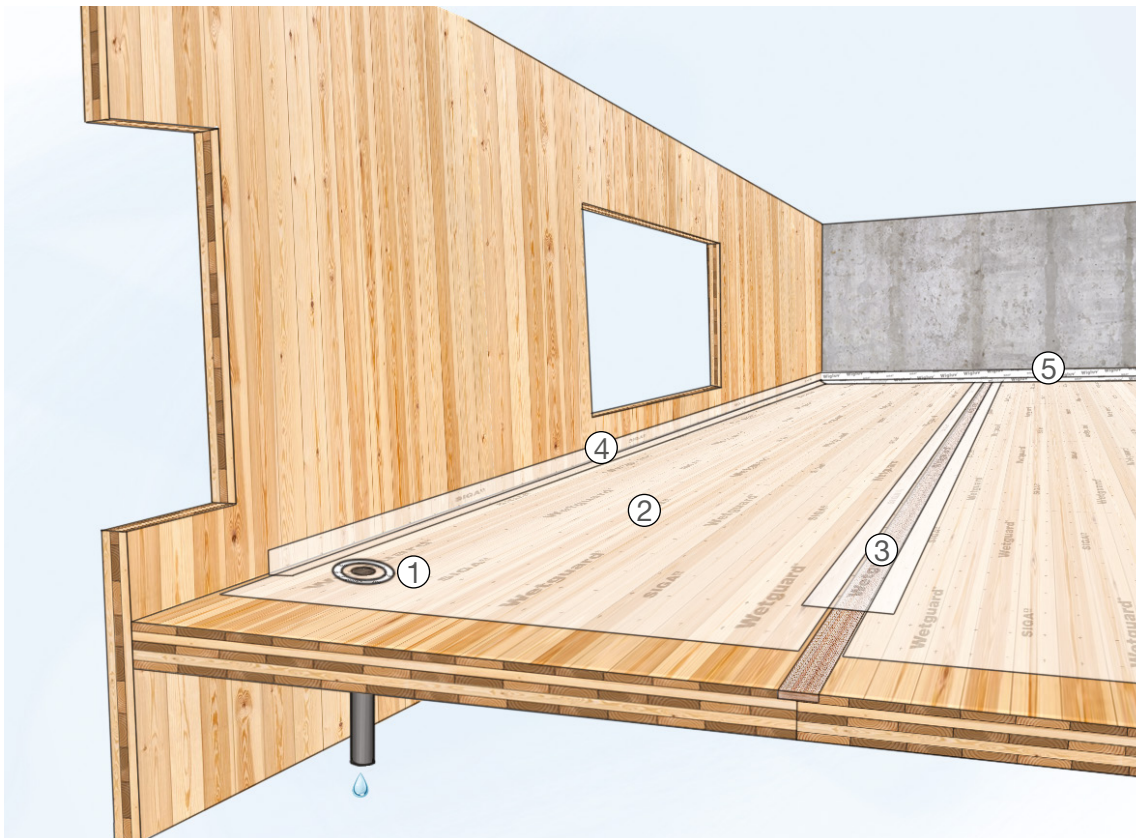
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PART 1 System Overview

The Wetguard 200 SA Installation Guide depicts installation best practices for protecting mass timber elements from moisture and weather damage during construction.

Wetguard 200 SA is a vapor semi-impermeable, transparent, self-adhered membrane that can be used in floor or roof panel applications to reduce moisture damage and absorption. Wetguard 200 SA is highly resistant to ponding water, designed to be safe to walk on, and is resilient to construction damage.

It is the responsibility of the design Authority of Record to confirm or adapt these guidelines to support specific project parameters and local code compliance. For procedures and conditions beyond the scope of this document, or for assistance with modifying specific details, please consult your local licensed design professional or SIGA representative.



- ① Water drainage incorporation
- ② Wetguard 200 SA protecting CLT floor panels
- ③ Wetguard 200 SA overlap
- ④ Wetguard 200 SA CLT floor to CLT wall transition
- ⑤ Wetguard 200 SA CLT floor to concrete wall transition

PART 2 Installation Requirements

2.1 SUBSTRATE PREPARATION



Wetguard 200 SA should not be applied unless the moisture content of the mass timber laminations, inclusive of any plywood or OSB sheathing layer, is a maximum of 16% at any location within a panel (surface, core, or edge).

- Before adhesion, all wood surfaces must be free of all foreign materials including, but not limited to, dust, paint, grease, oils, solvent, inks, sealers, asphalt, adhesive residue, mold, mildew, and other foreign materials that might prevent adhesive bond
- All wood substrates should always be protected from exposure to rain, snow, and wet ground during the construction process
- Wood substrates exceeding 16% moisture content at the time of installation will require additional drying before Wetguard 200 SA is installed
- If the substrate is exposed to wetting, operate fans, heaters and dehumidifiers as required to promote drying
- Mechanical fasteners should be installed flush to the substrate surface

2.2 SITE CONDITIONS

- Wetguard 200 SA can sustain the following UV exposure prior to being covered:
 - 12 weeks (Climate Zone 3-8)
 - 6 weeks (Climate Zone 1-2)
- Application temperature: From +14°F (-10°C)
- Cover Wetguard 200 SA as soon as practical after installation
- Do not install in rain or inclement weather, or when substrate is damp or frost-covered
- Avoid accumulation of dirt and debris onto face during installation

2.3 STORAGE

- SIGA products must be stored in cool, dry locations in their original packaging. Protect SIGA products from UV during storage. No long-term storage limitations, when above conditions are maintained
- Dockskin 100: Store in original container. Protect from freezing

PART 2 Installation Requirements

2.4 MOISTURE MITIGATION RECOMMENDATIONS



Install Wetguard 200 SA in a factory setting for ideal installation conditions and additional panel protection during shipping and staging onsite.

The following recommendations should be followed, based on the anticipated exposure to moisture, to achieve an appropriate level of moisture protection on site and to reduce uptake when factory install is not feasible.

- Timber panels should always be protected from exposure to rain, snow, and wet ground during transport, jobsite storage, and construction
- Due to end grain's sensitivity to moisture, panel joint treatment and protection of panel edges/end grain should always be a high priority
- Wetguard 200 SA cannot be applied in wet conditions. Install Wetguard 200 SA on timber panels when there is no precipitation (i.e., rain or snow), or with the help of on-site tent structures
- Limit extended exposure to standing water or snow. Periodically remove accumulated water or snow using a squeegee, broom, or wet vacuum
- Create drainage pathways for water to easily drain from the assembly in order to prevent standing water
- Arrangements to divert rain loads should be undertaken around exposed openings, staircases, and larger holes
- Permanent or temporary construction tenting, tarping and other protection systems can help eliminate moisture-related risks during construction and the installation of Wetguard 200 SA
- Periodically monitor and check moisture content of mass timber panels prior to and after covering to satisfy moisture content requirements

PART 3 Installation

3.1 COMPONENTS

Use the SIGA products below to complete a resilient moisture protection during construction. Additional product data can be found at the end of this guide or at siga.swiss.

	PRODUCT	DIMENSIONS	AREA
MEMBRANE PRODUCTS			
	Wetguard® 200 SA	61.4 in x 164 ft	839 sq ft
	Wetguard 200 SA	30.7 in x 164 ft	419 sq ft
	Wetguard 200 SA	15.3 in x 164 ft	209 sq ft
FLASHING PRODUCTS			
	Wigluv® 60	2.4 in x 131 ft	
	Wigluv 100	3.9 in x 82 ft	
	Wigluv 150	5.9 in x 82 ft	
	Wigluv 230	9 in x 82 ft	
PRIMER			
	Dockskin® 100	2.2 lbs	54 sq ft / bottle

PART 3 Installation

3.2 USAGE & MATRIX

	Wetguard 200 SA	Wetguard 200 SA 15"	Wigluv 60	Wigluv 100/150/230
RECOMMENDED USAGE				
Field on Floor/Roof Assembly	X	X		
Overlaps / Panel Joints	X	X		
Penetration Sealing				
Fenestrations				
Substrate Transition		X		
Expansion Joint				
Damage Repairs		X		
Reverse Laps or Overlap Reinforcement				
SUBSTRATES WITH RECOMMENDED MINIMUM OVERLAP				
Wood	2"	2"	1"	1"
Wood Based Panels (Plywood, OSB...)	2"	2"	1"	1"
Exterior Gypsum	2"	2"	1"	1"
Metal	2"	2"	1"	1"
Rigid Insulation EPS / XPS / PU			1"	1"
Concrete				2" <small>*Dockskin 100</small>
Hard Plastics / Vinyl			1/2"	1/2"
Electric Wires			1/2"	1/2"
Wetguard 200 SA	4"	4"	1"	1"

3.3 RECOMMENDED TOOLS

- Broom, roller, or a squeegee
- Heavy steel roller
- Tape measure
- Sharp razor knife
- Pencil or chalk line

PART 3 Installation

3.4 MOISTURE PROTECTION STRATEGIES

Wetguard 200 SA can be applied on timber elements in a factory or onsite to protect a timber assembly from moisture. Pros and cons of factory installation vs onsite installation are listed below.

For any assistance with modifying specific details, please consult your local licensed design professional or SIGA representative.



FACTORY-INSTALLED MOISTURE PROTECTION

- + Installed in a controlled, dry and accessible factory environment
- + Protects timber elements during transportation from factory to building site and while stored
- + Reduces on-site construction time and timber elements exposure to moisture
- + Provides better protection on the edges, where the end grain of the wood is exposed
- Logistical challenge for manufacturers



SITE-INSTALLED MOISTURE PROTECTION

- + Alternative solution when main moisture protection membrane can't be applied within the constraints of a factory
- + Reduces overlaps
- + Greater application adaptability
- On-site protection from precipitation, like wrapping, sheltering or other protection methods, may be necessary
- Wetguard can not be installed in wet conditions or during rain, all substrates must be free from condensation, dust and jobsite debris

PART 3 Installation



3.5 SHEET INSTALLATION PROCESS



The adhesive-layer of Wetguard 200 SA is pressure sensitive, and all installed areas must be heavily burnished.



- Clean wood surface from dust and loose material



- Mark course using a chalk line or pencil and orientate roll



- Remove larger backing and adhere the first 1-2 ft while ensuring straight application



- Gradually remove backing while pressing on using a broom, squeegee, or J-Roller

PART 3 Installation

3.6 OVERLAPS



Extra attention should be paid to the on-site protection of all joints and penetrations, once the wood panels are erected including, but not limited to, immediate treatment of panel-to-panel (e.g.: spline joint), panel-to-wall connections, and penetrations, to maintain continuity of the Wetguard 200 SA, and reduce potential exposure to wetting.

Taping of the spline connection is only effective at preventing water penetration through the mass timber when coupled with an entire membrane coverage of the timber floor or roof elements.



- Make sure the overlap area is free of moisture, dust and debris
- If overlap area is wet or dirty use a mop or blowing device (leaf blower, heat gun, etc.) to prepare the overlap section for a proper adhesive bond
- Overlap Wetguard by 6", or a minimum of 4"
- Apply heavy pressure to entire surface using a heavy steel roller to obtain optimal adhesion

- Bond element connecting joints (spline joint) with Wetguard 15" or wider



OPTIONAL: Edge-terminate overlaps using a continuous strip of Wigluv 60 or wider if any wrinkles or lack of bonding is observed to avoid paths for moisture intrusion.

- Apply heavy pressure to entire surface using a heavy steel roller to obtain optimal adhesion

PART 3 Installation

3.7 TRANSITIONS AND PENETRATIONS



Seal transitions to mineral substrates (concrete, cement-bonded particleboard) with Wigluv 100 or wider:

- Pre-treat mineral substrates with Dockskin 100. Depending on temperature and substrate, wait until Dockskin 100 is transparent and sticky
- Apply Wigluv in the middle, align
- Peel off backing strips one after the other, press down firmly



Seal transitions to timber materials with Wigluv 4" or wider or Wetguard 15":

- Apply Wigluv or Wetguard in the middle, align
- Peel off backing strips one after the other, press down firmly



Seal penetrations with Wigluv 60

- Fold tape lengthwise
- Apply to penetration, then to Wetguard 200 SA
- Repeat, overlapping each piece of tape to create a gasket

PART 3 Installation

3.8 DAMAGE REPAIR

Wetguard 200 SA can only reliably keep moisture away from the structure if it is continuous. Patching of lifting holes and tears will be required to achieve a full seal.



- Conduct a visual inspection after enclosure completion and spot-check for holes and tears

- Apply a piece of Wetguard 200 SA or Wigluv to face of Wetguard 200 SA field membrane, centered over damage, and extending past

3.9 DETECTING WATER LEAKS

While Wetguard 200 SA shows great resistance to ponding water, undetected damages or insufficient overlap treatment will sometimes happen. Membrane transparency will help to identify and address potential wet areas underneath membrane, throughout the construction phase once the enclosure is completed.



- Conduct a visual inspection after enclosure completion to identify wet areas underneath Wetguard
- Spot-check wood moisture contents through the membrane using a moisture meter
- Partially cut and remove the membrane wherever wood moisture contents over 16% are measured
- Employ additional means of drying such as construction blowers or dehumidifiers to get the wood to acceptable moisture contents before resuming with the floor topping installation

SIGA Reliability

Product Performance and Limitations

SIGA Cover Inc. and SIGA Canada Inc. (SIGA) products have the properties set forth in the corresponding Technical Data Sheets (available at www.siga.swiss). However, SIGA excludes any liability for processing or use that does not comply with these guidelines, or:

- If exceptional factors, in particular those of a chemical and/or mechanical nature, affect the product.
- If permanent mechanical strain (e.g. due to tensile and compression forces) has an impact on the seal.
- If multi-layered sheeting or paneling materials do not have sufficient cohesive strength.
- In case of open façade cladding with Majvest®200 or Majvest®500 SA.
- In case of air-sealing in areas with extraordinary moisture levels (e.g. sauna and swimming pool applications).
- When using Dockskin® 100, if the primed surface is not applied with Majvest® 500 SA, Wigluv®, Rissan® or Fentrim®.
- When the prerequisites for the secure laying of sheeting are not fulfilled. The substructure must be free of any protruding objects which could cause injury, such as screws etc.
- When the prerequisites for reliable sealing are not fulfilled. The substrate must be dry, structurally sound, and free of any dirt, grease, and debris. It must not be adhesive repellent. Before sealing clean the substrate and sheeting and perform an adhesion test on site.
- If substrates are too loose or not densified enough. Strengthen affected areas with the high-performance primer Dockskin® 100.
- If bonds are made under standing water.
- If creases or tension are not relieved. Cut and reseal in the affected areas
- If precipitation cannot run off in a controlled manner. Where applicable, temporary water drainage should be planned to prevent standing water.

In the IECC (2018) North America is divided into 8 different climate zones. Accordingly, different zone-related requirements are to be considered regarding the building envelope. For information about climate zones please refer to the International Energy Conservation Code. Consult your planner or building scientist to check whether your planned construction will meet the requirements of the respective climate zone.

Guidelines

These Guidelines can become invalid if new knowledge is acquired or new developments are made. The most up to date version is available at www.siga.swiss. SIGA assumes no liability for the accuracy, completeness or appropriateness of the drawings included in these Guidelines for a specific installation or purpose. Confirm project specific conditions with a local licensed design professional to assure compliance with all legal requirements. SIGA is not licensed to provide professional engineering or architectural services.

Technical Product Properties

SIGA high-performance adhesives are free of solvents, VOCs, high boilers, plasticizers, chlorine, and formaldehyde. They cannot be removed after application. SIGA adhesives are pressure-activated and require firm installation pressure. Ageing resistant, durable adhesive power. Made without rubber, resins, or solvent to prevent embrittlement.

Installation temperature (tapes and membranes): From -10°C / +14°F

Service temperature resistance (tapes): -40°C to +100°C / -40°F to +212°F

Service temperature resistance (membranes): -40°C to +80 °C / -40°F to +176°F

Store SIGA products cool and dry in original packaging. In addition, store Dockskin® 100 frost-free, and Majrex® 200, Majvest® 200, Majvest® 500 SA, Majvest® 700 SOB, Wetguard® 200 SA away from direct UV exposure. For Dockskin® 100, observe the use-by date.

10-Year Limited Warranty

For complete warranty details consult your local SIGA application advisor or consult the SIGA Limited Warranty Document available at www.siga.swiss.

Product Information

Wetguard® 200 SA

Transparent self-adhered membrane for the moisture protection of mass timber elements



Semi-impermeable non-woven with PO anti-slip functional layer • UV exposure: 4 weeks • 0.5 US perms

- ✓ **rainproof with drying potential**
high safety in regards to moisture protection
- ✓ **robust and abrasion resistant**
no damage during construction phase
- ✓ **transparent and non-slip**
work accurate and safe

Product specifications

	Wetguard 200 SA 61"	Wetguard 200 SA 30"	Wetguard 200 SA 15"
ARTICLE NO.	8220-156050	8220-078050	8220-039050
PALLET	16 rolls	32 rolls	64 rolls
WIDTH	1.560 m / 61.4 ft	0.78 m / 30.7 ft	0.390 m / 15.3 ft
LENGTH	50 m / 164 ft	50 m / 164 ft	50 m / 164 ft
WEIGHT/ROLL	24 kg / 52.9 lbs	12kg / 26.5 lbs	6kg / 13.2 lbs

Wigluv® 60

Elastic, semi-permeable tape for sealing membrane overlaps and penetrations



Semi-permeable special PO film • UV exposure: 12 months • 1.7 US perms • The bond must not be under standing water

- ✓ **high adhesive strength at high and low temperatures**
reliable, no building damage
- ✓ **vapor semi-permeable 1.7 US perms**
prevents condensation build-up
- ✓ **driving rain-proof and impermeable to bulk water**
permanent protection for roof and facade

Product specifications

	Wigluv 60
ARTICLE NO.	7510-6040
BOX	10 rolls
WIDTH	60mm / 2.4"
LENGTH	40 m / 131'

Wigluv® 100/150/230

Low-profile, semi-permeable flashing tape for window and door installation



Semi-permeable special PO film • UV exposure: 12 months • 1.7 US perms • The bond must not be under standing water

- ✓ **high adhesive strength at high and low temperatures**
reliable, long-term building value
- ✓ **vapor semi-permeable 1.7 US perms**
prevents condensation build-up
- ✓ **split backing strip**
simple and quick to apply

Product specifications

	Wigluv 100	Wigluv 150	Wigluv 230
ARTICLE NO.	7510-6040	7510-15025	7510-23025
BOX	6 rolls	4 rolls	2 rolls
WIDTH	100mm/3.9"	150mm / 5.9"	230mm/9"
LENGTH	25m/82'	25m/82'	25m/82'

Dockskin® 100

High-performance primer for strengthening sandy and fibrous substrates



Water-based, solvent-free acrylate-copolymer dispersion • Shelf life: 18 months from the date of sale if unopened • Clean the brush immediately with water • Keep out of reach of children!

- ✓ **quick drying**
saves time
- ✓ **strong penetration**
extremely good adhesion on soft fibre boards, masonry and concrete
- ✓ **usable on cold substrates from -10° C/14°F**
solvent-free

Product specifications

	Dockskin 100
ARTICLE NO.	5930
BOX	8 bottles
WEIGHT / BOTTLE	1 kg / 2.2 lbs
COVERAGE RATE (AREA)	5 m ² / bottle 54 sq ft / bottle

SIGA Company Values



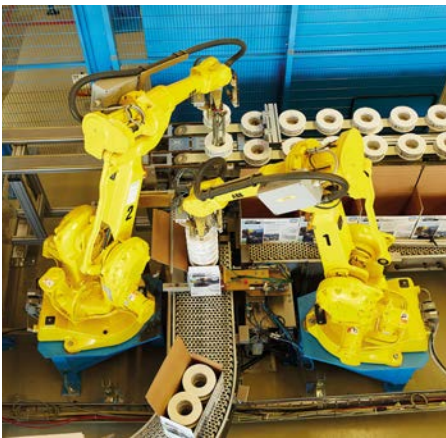
Tradition

For half a century and with great expertise and enthusiasm, we have been developing and producing nontoxic adhesives, tapes and membranes. In 1966, SIGA was established by Paul and Trudy Sieber-Gadient. The business was taken over by their two sons, Reto and Marco Sieber, in 1990. Since then, SIGA has prosperously evolved from a 15-man, local-rooted company to a global company with over 500 employees. In 2016, the five children of Reto and Marco Sieber decided to continue running SIGA as a family business in the third generation.



Executive team

Today, a team of four specialists is responsible for senior management. From left to right: Peter Scherrer (CFO), Daniel Schmid (CTO), Stefan Schaab (CPO) and Patrick Haacke (CSO).



Innovation

Each year, SIGA introduces highly innovative products and services into the market. Over the past decade, SIGA has been granted more than 30 patents in the field of adhesives, tapes, and membranes. Not only are our products highly innovative, but also is our machinery. We manufacture our products with the use of self-developed, one-of-a-kind production machines. SIGA's strive for excellence has also resulted in a unique culture of improvement. Every employee, regardless of his position, can actively optimize all aspects of our company. As a clear commitment to this culture, every 10th work day is solely used to improve the status quo and daily business is suspended.



Passion

With highly motivated employees across 40+ countries, we aspire to meet the needs of our customers for an energy-efficient, enduring, and hazard-free building envelope. SIGA precision, combined with our expertise in roof, wall and floor connections, the installation of facades, window and door elements, pipe and cable penetrations, guarantee the highest quality and efficiency in building and remodeling.

We are very proud to actively contribute to environmental protection with our product range.



Training

Gain know-how from our experts. SIGA offers job site training and educational workshops to help you achieve your air and weathertightness goals.



Job Site Training

Receive on-site application training and technical support to ensure your SIGA products are installed correctly and fit the unique details of your job.

Visit: https://www.siga.swiss/us_en/training/job-site-training

[Sign up for job site training](https://www.siga.swiss/us_en/training/job-site-training)



Educational workshops

Get your learn on by attending one of our air and weathertight education lessons. Workshops span from AIA and CPD-accredited lunch and learns to detailed application training.

Visit: https://www.siga.swiss/us_en/training/educational-workshops

[Sign up for an educational workshop](https://www.siga.swiss/us_en/training/educational-workshops)

Stick with us.

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