

Majvest[®] 700 SOB

Installation Guide
for UV Resistant
Mechanically-Attached
Water-Resistive Barrier in
Open Joint Cladding Systems

Contents

Part 1 Overview	p. 4
Part 2 Installation Requirements	p. 5
2.1 Components	
2.2 Required Tools	
2.3 Substrate Information	
2.4 Site Conditions	
2.5 Cladding Assembly Requirements	
Part 3 Installation	p. 7
3.1 Overlap Requirements	
3.2 Fastening Guidelines	
3.3 Sheet Installation Process	
SIGA Reliability	p. 9
Product Information	p. 10

ATTENTION

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).

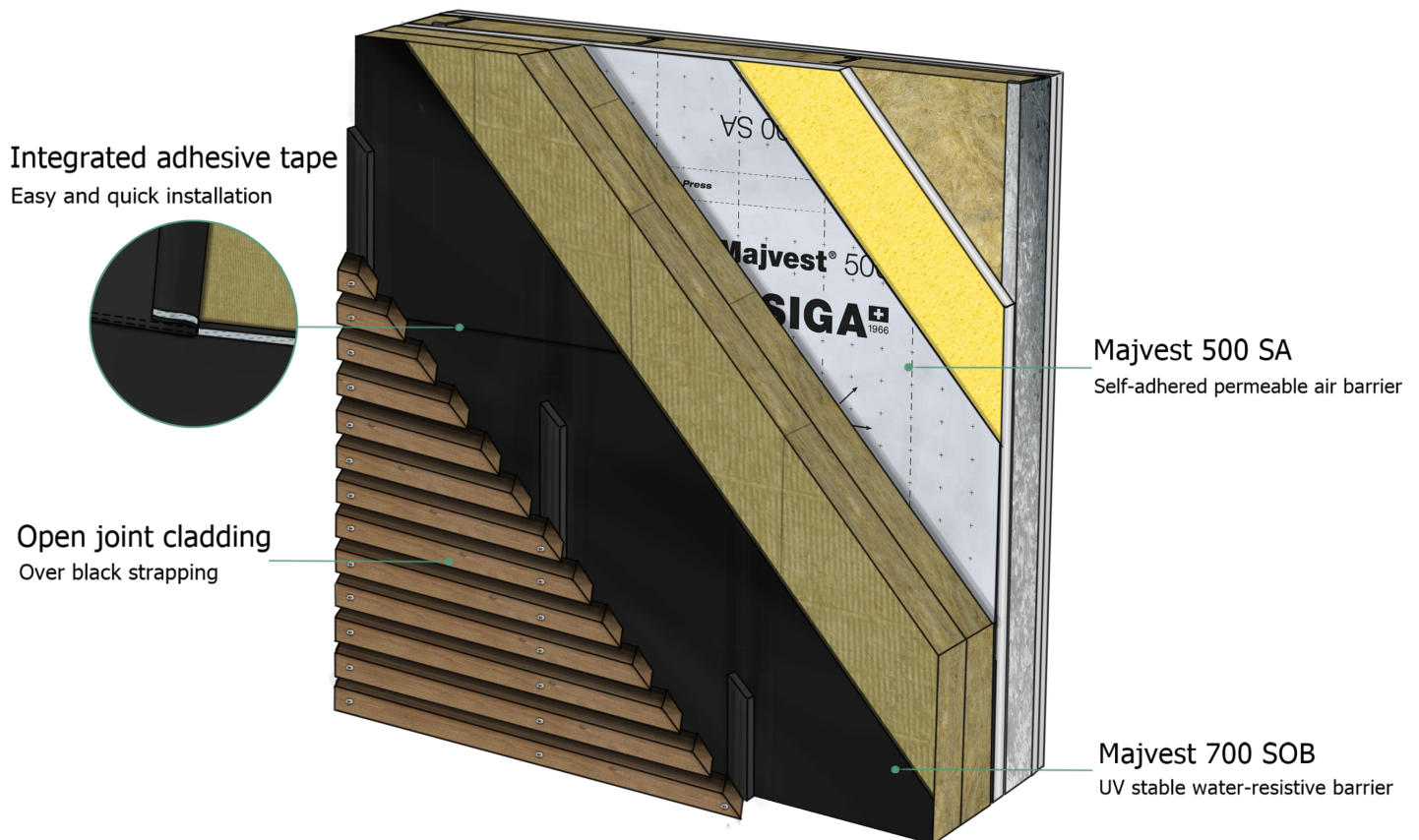
PART 1 System Overview

1.1 INTRODUCTION

This installation guide is intended to portray the broad installation practices for a rainproof and windtight building envelope in exterior applications for open-joint cladding systems, in residential and commercial buildings of less than 6 stories using Majvest® 700 SOB.

It is the responsibility of the design Authority of Record to confirm or adapt these guidelines to support project specific 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.



Additional air barrier must be installed in a protected location prior to Majvest 700 SOB to achieve air barrier assembly.

PART 2 Installation Requirements

2.1 COMPONENTS

Use the SIGA products below to complete a resilient, above-grade exterior building envelope. Additional product data can be found at the end of this guide, or at <https://siga.swiss>.

	PRODUCT	DIMENSIONS	AREA
Membrane Products			
	Majvest 700 SOB	59 in x 110 ft	539 sq. ft
Flashing Products			
	Wigluv® black 60	2.4 in x 131 ft	
	Wigluv black 100	3.9 in x 82 ft	
	Wigluv black 150	5.9 in x 82 ft	
	Wigluv black 20/40	2.4 in x 82 ft	

2.2 RECOMMENDED TOOLS

- sharp razor knife
- chalk-line or pencil
- measuring tape
- 2" cap screws, or equal
- fastener-driving device
- hammer tacker or other temporary fasteners
- hand roller (for flashing and tape application)

PART 2 Installation Requirements

2.3 SUBSTRATE INFORMATION

- Majvest 700 SOB can be installed over multiple substrates including: plywood, OSB, framing lumber, gypsum sheathing, rigid insulation, and semi-rigid insulation (mineral fiber).
- All surfaces must be dry, sound, clean, free of oil, grease, dirt, excess mortar or other contaminants detrimental to the attachment of the mechanically attached water-resistive barrier membrane and flashings.
- Mechanical fasteners should be installed flush to the substrate surface.
- Masonry joints should be struck flush.
- Concrete must be cured before installing Majvest 700 SOB.
- Voids over 1" should be filled and tooled flush, using compatible sealant or spray foam.

2.4 SITE CONDITIONS



Use best practices for scheduling, planning and covering Majvest 700 SOB as soon as possible.

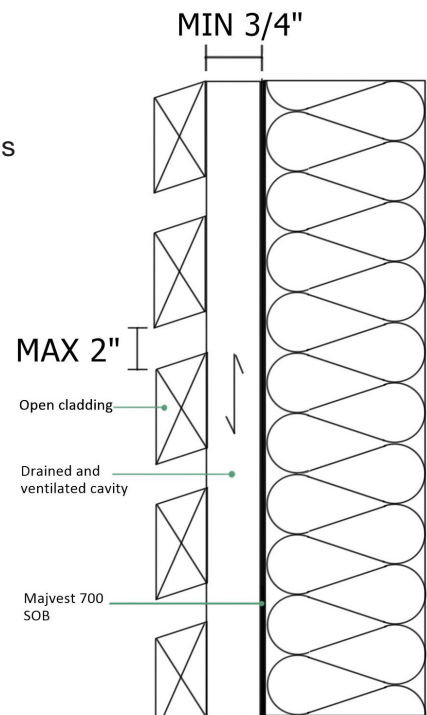
- Recommended maximum building height is 65 ft.
- Maximum direct UV and climate exposure prior to cladding installation of Majvest 700 SOB, per Climate Zone as defined by the IECC:
 - < 6 months for Zones 3 to 8
 - < 3 month for Zones 1 and 2
- Do not install Majvest 700 SOB in adverse weather conditions. High winds may obstruct application.
- SIGA self-adhered flashing products perform best when installed at temperatures above 14°F (-10°C).

2.5 CLADDING ASSEMBLY REQUIREMENTS



Minimizing the number of penetrations in the water-resistive barrier in an open joint cladding system reduces potential for water intrusion into the wall assembly.

- Ensure water-resistive barrier continuity in open joint cladding and avoid potential water leakage pathways in the building enclosure.
- Provide and install specified battens and ventilation strips under cladding systems.
- Minimum 3/4" airspace is required between installed Majvest 700 SOB and all open-joint cladding.
- Maximum percentage of water-resistive barrier open area allowed is 40% of total wall area.
- Maximum open joint size between cladding components is up to 2".



PART 3 Installation

3.1 OVERLAP REQUIREMENTS

- Majvest 700 SOB must be correctly shingled with all openings, penetrations and flashings to deflect liquid water to the main drainage plain and ultimately to the exterior of the building.
- Majvest 700 SOB is non-directional and may be installed horizontally or vertically. Minimum vertical and horizontal overlap is 4".
- All vertical overlaps shall be fully terminated using a continuous strip of Wigluv 60 black or wider.
- Offset vertical joints (8" minimum) to avoid paths for moisture intrusion at tangential overlaps.

3.2 FASTENING GUIDELINES



DO NOT place fasteners in the integrated tape overlap area before removing release film and sealing integrated tape seam.

• Temporary fixation

- > Staples or cap nails may be used as temporary fasteners during installation but only at locations that will be covered by the shingling of the next layer of Majvest 700 SOB.
- > Use 3/8" T50 staples or equal.
- > Fasten every 24"-36" within field of wall.
- > Fasten approximately every 12" along each overlap and around rough openings. Ensure fasteners are installed 9" minimum from window or door head.
- > Seal overlaps and install permanent attachment measures as soon as practical.

• Permanent fixation



When Majvest 700 SOB is applied over an exterior insulation sheathing, it should be fastened through the insulation and the sheathing, into the wall framing.

- > Attach Majvest 700 SOB to studs through exterior sheathing using permanent fixation like cap fasteners, furring strips, battens, hat channels, masonry ties, metal extrusions, etc.
 - Secure water-resistive barrier using manufacturer recommended fasteners, space 12"-24" vertically on center along stud line, and 24" on center, maximum horizontally.
 - Gasketed fasteners are recommended whenever possible.
- > Recommended cap fasteners for wood frame construction:
 - Minimum 2" long ring shank nail or wood screw with 1" to 2" diameter washer.
 - Fasteners must penetrate the wood studs a minimum of 3/4".
- > Recommended cap fasteners for steel frame construction:
 - 1-5/8" corrosion-resistant screw with 2" diameter plastic caps or metal gasketed washer.
- > Addressing air leakage from fasteners: For cladding anchors, supports and fasteners, apply a small patch of Wigluv black to Majvest 700 SOB prior to installing cladding anchors. The patch should be of a size to seal only the penetration points.

PART 3 Installation

3.3 SHEET INSTALLATION PROCESS

Step 1: Begin installation at the base of the wall

- Establish level and mark substrate.
- Start Majvest 700 SOB installation at a building corner, leaving 8-12" of water-resistive barrier extended beyond corner to overlap.
- Unroll Majvest 700 SOB flat and without wrinkles with the smooth side out, wrapping the entire building, including window and door rough openings. Maintain plumb and level.
- Fasten temporarily with T50 staples in the top 2" above the integrated tape. Avoid stapling in the tape area.

Step 2: Overlap the membrane

- Line up the bottom of the upper course of material, creating a 4" overlap.
- Keep minimum 4" at all vertical and horizontal overlapping seams.

Step 3: Seal horizontal seams with integrated tape

- Line up both release films together.
- Join horizontal seams by peeling back both release films, starting from where horizontal joint meets vertical joint.
- Remove release film of the integrated tape and press firmly into place.
- Roll lapped integrated tape seams with roller to ensure contact and adhesion.

Step 4: Stagger all vertical end lap seams at least 8"

- Use Wigluv black 2.4" or wider to seal the vertical seams by keeping 4" overlap.

Step 5: Battens for ventilated siding

- Provide and install specified battens and ventilation strips under cladding systems per manufacturer instructions and local building codes.



SIGA Reliability

Product Performance and Limitations

SIGA Cover 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:

- In case of unusual influences on the product, in particular of chemical or mechanical nature.
- 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 facade cladding with Majvest® 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®, 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®.
- If bonds are made under standing water.
- If creases or tension are not relieved. Cut and reseal in the affected areas.

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 in order 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® frost-free, and Majrex®, Majvest®, Majvest® 500 SA, Majvest® 700 SOB away from direct UV exposure. For Dockskin®, observe the use-by date.

10-Year Limited Warranty

For complete warranty details, consult your local Application Advisor or find the SIGA Limited Warranty Document (available at <https://siga.swiss>).

© Developed and produced by SIGA Cover Inc. All rights reserved.

Product Information

Majvest® 700 SOB

Black membrane for open facade applications



2-ply membrane: acrylate coating on robust polyester fleece • Thickness 20 mils • Fire behavior: Class A (ASTM E84) • 107 US perms (ASTM E96 Method A) • Suitable for open facades with up to 2" joint width and a max. proportion of 40%.

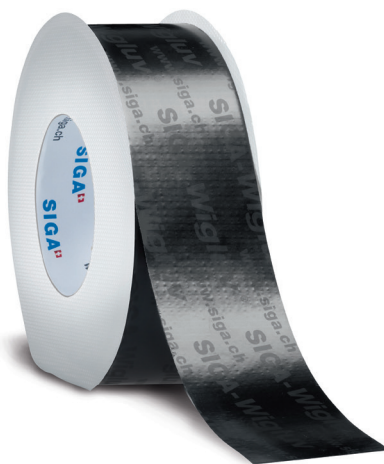
- ✓ extremely UV-stable
resistant to ageing and permanently tight
- ✓ SIGA adhesive strength "on board"
sticks permanently and extremely well at high and low temperatures
- ✓ robust and dimensionally stable
easy to apply and visually very pleasing

Product specifications

	Majvest 700 SOB 1.5 m
ARTICLE NO.	8975-150033
PALLET	20 rolls
WIDTH	1.5 m / 59"
LENGTH	33.4 m / 110'
AREA / ROLL	539 sq ft
WEIGHT / ROLL	16 kg / 35.3 lb

Wigluv® black 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 • Suitable for open facades with up to 2" joint width and a max. proportion of 40%.

- ✓ extremely UV-stable
highly resistant to ageing on black facade membranes
- ✓ high adhesive strength at high and low temperatures
reliable, long-term building value
- ✓ vapor semi-permeable >1.7 US perms
prevents condensation build-up

Product specifications

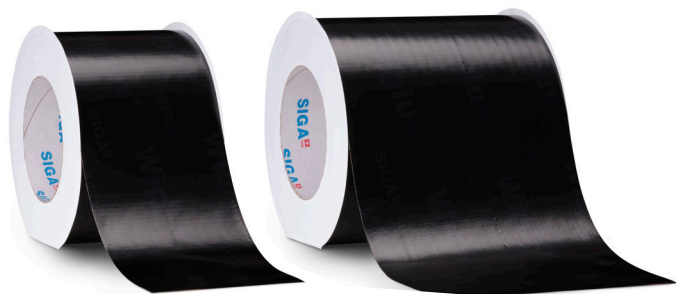
	Wigluv black 60
ARTICLE NO.	7509-6040
BOX	10 rolls
WIDTH	60 mm / 2.4"
LENGTH	40 m / 131'

Product Information

Wigluv® black 100 /150

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

- ✓ extremely UV-stable
highly resistant to ageing on black facade membranes
- ✓ high adhesive strength at high and low temperatures
reliable, long-term building value
- ✓ split backing strip
simple and quick to apply



Semi-permeable special PO film • UV exposure: 12 months • 1.7 US perms • The bond must not be under standing water • Suitable for open facades with up to 2" joint width and a max. proportion of 40%.

Product specifications

	Wigluv black 100	Wigluv black 150
ARTICLE NO.	7509-10025-T01	7509-15025-T01
BOX	6 rolls	4 rolls
WIDTH	100 mm / 3.9"	150 mm / 5.9"
LENGTH	25 m / 82'	25 m / 82'

Wigluv® black® 20/40

Split-backed high-performance tape for sealing inside corner connections of window and door frames with open facades

- ✓ extremely UV-stable
highly resistant to ageing
- ✓ high adhesive strength at high and low temperatures
reliable, long-term building value
- ✓ slit and tearproof backing strips 20/40
precise and quick in corners



Semi-permeable special PO film • UV exposure: 12 months • 1.7 US perms • The bond must not be under standing water • Suitable for open facades with up to 2" joint width and a max. proportion of 40%.

Product specifications

	Wigluv black 20/40
ARTICLE NO.	7509-6025
BOX	10 rolls
WIDTH	60 mm / 2.4"
LENGTH	25 m / 82'



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.

SIGA Cover Inc.
1229 N. North Branch St.
Suite 310
Chicago, IL 60642
855-773-7442

siga.swiss