

Document outlining the ISOCELL product "Protect Grip", primarily based on the principles of the "Construction Specifications Institute (CSI)" for documenting product properties.

*EFFECTIVE May 01, 2025 AND SUPERSEDES ALL PREVIOUS VERSIONS.*

## *SECTION 07 13 00*

# SELF-ADHERED WATERPROOFING MEMBRANE

*Product Name: PROTECT GRIP*

*Specifier Note:*

This document outlines materials and installation procedures for the PROTECT GRIP self-adhering, semi-impermeable waterproofing membrane. PROTECT GRIP is designed specifically to protect mass timber elements from moisture exposure during the construction phase. The specification is presented in the three-part structure recommended by CSI and can be customized to align with the unique requirements of individual projects. It is intended to be included as a separate section under Division 07 - Thermal and Moisture Protection.

The following pages outline recommended installation procedures for the described products or assemblies. The specification section is organized in accordance with the framework suggested by the Construction Specifications Institute (CSI), including Master Format, Section Format, and Page Format. However, it is up to the project specification author to decide how to apply this information—whether partially or entirely—to define the performance standards required for the project. The document also includes notes designed to assist architects and specification writers. Each ISOCELL "Specifier Note" appears directly before the corresponding text. This section is intended as a flexible reference and should be tailored to meet the specific needs of the project.

Note: The "Specification Note" is not intended to be part of the created specification and may be omitted. For the specification, see the following text.

## **PART 1 – GENERAL**

### **1.1 GENERAL REQUIREMENTS**

- a). The General Conditions, Supplementary Conditions, Instructions to Bidders, and Division 01 - General Requirements are integral to this Section and must be considered together with it.
- b). All relevant parties should review this Specification Section. It is the contractor's responsibility to ensure the installing subcontractor fully understands the scope of their assigned work.

### **1.2 SECTION INCLUDES**

- a). This Section outlines the requirements for providing labor, materials, tools, and equipment necessary to execute the work detailed in the architectural drawings and described, including but not limited to the following:

Self-adhered waterproofing membrane (ISOCELL - PROTECT GRIP).

### **1.3 RELATED SECTIONS**

[Specifier Note: Edit RELATED SECTIONS below to align it with other sections included in the project manual].

- a). Section 06 16 00 – Sheathing.
- b). Section 06 17 19 – Cross-Laminated Timber.
- c). Section 07 10 00 – Damp proofing and Waterproofing.
- d). Section 07 50 00 – Membrane Roofing.

### **1.4 REFERENCES**

- a). *ASTM Standards :*

ASTM D1970 - Test Method for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.

ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.

ASTM E96 - Test Methods for Water Vapor Transmission of Materials.

- b). *European Standard (EN):*

EN 1848-2: flexible sheets for waterproofing - Determination of length, width, straightness, and flatness.

EN 1928: Flexible sheets for waterproofing. Bitumen, plastic, and rubber sheets for roof waterproofing. Determination of water tightness.

EN ISO 12572: Hygrothermal performance of building materials and products. Determination of water vapor transmission properties.

EN 13501-1: Fire Test to Building Material.

## 1.5 SUBMITTALS

- a). Data sheet
- b). installation instruction

## 1.6 QUALITY ASSURANCE

- a). *Applicator Qualifications:*

**Unified Sourcing:** The self-adhering waterproofing membrane and its accessories should be sourced as a complete system from a single manufacturer to ensure compatibility and system integrity.

**Regulatory Compliance:** Ensure that the product meets all applicable federal, state, and local regulations.

**Installer Qualifications:** The installer must have prior experience in applying self-adhering sheet membranes.

**Installation Standards:** The installation must follow the manufacturer's guidelines.

**Training Opportunity:** When possible, the installer should complete ISOCELL product installation training before beginning work.

- b). *The applicator must have experience working with the same or similar materials and must receive explicit written approval from the membrane manufacturer before proceeding.*

- c). *Pre-installation Meeting.*

Refer to Section <<01 31 19 Project Meetings>> <<insert Section number and title>>.

(Specifier Note: A pre-installation meeting is required for projects that specify the ISOCELL Products Warranty, and is recommended for all projects using PROTECT GRIP.)

Before starting the work, schedule a meeting to review project conditions, installation methods, timelines, coordination with other tasks, and the manufacturer's designated field representative.

Examine all relevant project requirements and submitted documents, assess the condition of the substrate and its preparation, and identify any potential conflicts or necessary interfaces. Verify that materials and components for the air barrier system are available, and ensure the installer is properly trained, with the required equipment, facilities, and scaffolding. Coordinate the installation procedures, methods, and sequencing to guarantee seamless integration and proper protection throughout the project.

## 1.7 DELIVERY, STORAGE, AND HANDLING

a). Transport materials to the project site in their original packaging, ensuring seals are intact, and labels display the manufacturer's name, product details, manufacturing date, and storage instructions.

b). Store materials in a clean, dry, and sheltered area, keeping them in their original, undamaged packaging and within the temperature range specified by the manufacturer. Ensure materials are protected from direct exposure to UV light.

c). Handle materials according to the manufacturer's guidelines and recommendations.

d). Waste Management for Packaging:

(Specifier Note: The section below can be removed if packaging waste management is not required.)

Sort and recycle packaging waste according to the guidelines outlined in Section 01 74 19, which covers Construction Waste Management and Disposal. Ensure that waste packaging materials are removed from the site and taken to designated recycling facilities for proper disposal.

## 1.8 PROJECT CONDITIONS

**Compatibility:** Verify that the self-adhesive waterproofing membrane is not in contact with materials that may cause chemical incompatibility.

**Temperature:** Apply the self-adhering waterproofing membrane within the temperature and moisture range recommended by the manufacturer for both the ambient air and substrate. Avoid applying the membrane to damp or wet surfaces.

**UV Exposure:** Avoid exposing the self-adhering waterproofing membrane to ultraviolet (UV) light for longer than the time recommended by the manufacturer.

**Field Conditions:** Do not apply air barrier materials in adverse weather conditions such as snow, rain, fog, or mist. Additionally, avoid installing the self-adhering waterproofing membrane if the temperature of the substrate or surrounding air is below the manufacturer's recommended threshold.

## 1.9 WARRANTY

Warranties extending beyond the statutory warranty periods must be individually agreed upon with the manufacturer.

## PART 2 – PRODUCT

(Specifier Note: Product details are proprietary to PROTECT GRIP. If additional products are needed for competitive bidding, please reach out to an ISOCELL applications advisor for support.)

### 2.1 MANUFACTURER

ISOCELL GmbH & Co KG; Gewerbestraße 9; 5202 Neumarkt am Wallersee; office@isocell.at ;  
 www.isocell.com ; Phone: +43 6216 4108 - 0

### 2.2 MATERIAL

Self-adhered membrane for temporary weather protection of wooden elements (non removable).

Self-adhering, semi-vapor-permeable, water-repellent membrane made of nonwoven fabric with an anti-slip functional layer and a full adhesive layer applied to the entire backside.

*Characteristics:*

Property	Value (Metric)	Value
Colour:		white

Weight	175 g/m <sup>2</sup>	0.036 lb/ft <sup>2</sup>
Water Vapor Transmission	108 Metric Perms (ng/Pa*s*m <sup>2</sup> )	1.9 US Perms (grains per hr.in.Hg.ft <sup>2</sup> )
Temperature Resistance	-40°C – 70°C	-40°F – 158°F
Working Temperature	-5°C – 40°C	23°F – 105°F
Expandability (EN 12311-1)	60 - 100 %	60 - 100 %
Tensile Strength (EN 12311-1)	90 N/50 mm (long.)	20.2 lbf/in (long.);
	60 N/50 mm (trans.)	13.5 lbf/in (trans.)
Tear Propagation Resistance	70 N (long.)	15.7 lbf (long.)
	85 N (trans.)	19.1 lbf (trans.)
Storage	Cool and dry	
Outdoor Exposure	Climate Zone 3-8: 12 weeks; Climate Zone 1-2: 6 weeks	
Fire Performance	EN 13501-1 / EN 11925-2 E	
Surface Burning Characteristics ATM E84-2024a	Flame Spread = 5 Smoke Density = 25	
Capability to Seal Around Nail (Head of Water Test), ASTM D1970	Pass	

## EXECUTION

### 2.3 EXAMINATION

Document any issues or unsuitable conditions in writing and communicate them to the Owner's Representative. The contractor responsible for installation must inspect and confirm that the surfaces and conditions comply with the manufacturer's guidelines and the requirements detailed in this section.

Avoid installing the product on substrates that feel damp to the touch.

Starting work or any part of it signifies the installer's approval of the substrate's suitability.

Confirm that all surfaces and conditions meet the necessary standards for beginning the work described in this section.

Verify that surfaces are free from dirt, moisture, and irregularities, and that they adhere to the specifications provided by the membrane manufacturer.

Work should not commence until all deficiencies have been addressed.

### 2.4 PREPARATION

Inspect metal closures to ensure they are free of sharp edges or burrs.

Make sure all surfaces are free from oil and excessive dust.

Confirm that substrates are completely dry and free of moisture before applying the membrane.

Clear the area of any loose debris or contaminants that could hinder material adhesion.

### 2.5 INSTALLATION

Apply materials following the guidelines provided by the manufacturer.

Measure and cut the material along printed guide marks into sheets of manageable size to suit the application requirements.

Process the fully self-adhered waterproofing membrane, on the surface of the solid wood or wood-based panels, according to the manufacturer's written instructions.

Position the membrane with the printed side facing the installer.

Peel away the release liner from the membrane's back, align it precisely to confirm proper placement before fully removing the liner, and firmly press it onto the surface.

Achieve substrate adhesion by pressing the foil firmly to the substrate. Only areas that are properly pressed will achieve strong substrate adhesion. Special attention must be given to pressing the foil at overlap joints. Only firmly pressed joints ensure a good seal.

If wrinkles occur at joints, they must be generously covered either with the manufacturer's system sealant, system adhesive tape, or a wide strip of the system product itself. Wrinkles that are merely compressed will reopen later due to the inherent tension in the material. Covering them is essential to ensure a watertight seal.

**Warning:** Openings in the ceiling must be cut out immediately after the foil has been stretched over them. The foil **CANNOT** support the weight of a person if it is stretched freely across an opening. There is a serious risk of falling when spanning openings as the opening may not be clearly visible from above.

Ensure overlaps of at least 4 inches (100 mm), and use a roller to smooth out the joints, guaranteeing a seamless bond and preventing gaps or folds, as per the manufacturer's instructions.

Verify that the entire membrane creates an effective waterproof seal. Take responsibility for its integrity, even in areas not explicitly detailed. If concerns arise about the membrane's completeness, consult with the site manager.

Seal all penetrations to maintain a watertight barrier.

Repair any misaligned seams, punctures, or other defects using a patch of membrane that extends at least 2 inches (50 mm) beyond the damaged area on all sides.

## 2.6 FIELD QUALITY CONTROL

Inspections conducted by the project commissioner or architect can evaluate the waterproofing membrane, its accessories, and installation to ensure they meet the required performance standards. For guidance and assistance, the membrane manufacturer is available for consultation. Any damage caused to the membrane during destructive testing must be promptly repaired in accordance with the manufacturer's instructions.

## 2.1 PROTECTING AND CLEANING

Ensure that the material was stored and transported dry and protected from mechanical damaging.

Safeguard the self-adhered waterproofing membrane from any damage during both the installation and the rest of the construction phase, following the manufacturer's written guidelines.

Ensure coordination with the installation of materials that will cover the membrane, making sure the exposure time does not surpass the limit recommended by the manufacturer of the waterproofing membrane.

The foil is not intended to be removed. If removal is still desired, it can be attempted by scraping off the backing and then softening and removing the adhesive with an adhesive cleaner. This may be possible on small areas without damaging the substrate. On larger areas, it is generally not cost-effective. Therefore, when applying the foil, care should be taken not to cover areas that should remain visible or not covered for any reason.

*END OF SECTION*

**DISCLAIMER:** The ISOCELL Guide Specifications are intended as a resource for qualified specifiers and design professionals. The application of these guidelines requires the professional judgment and expertise of the specifier and design professional to tailor the information to meet the specific requirements of the building owner and project. This includes ensuring coordination with the construction documentation process and compliance with all relevant building codes, regulations, and laws. ISOCELL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING THE USE OF THIS PRODUCT FOR THE PROJECT.

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