



Building with conscience.

# Sto Gold Coat<sup>®</sup>

Fluid-applied vapor permeable  
air and water-resistive barrier

## Facades



Together with StoGuard<sup>®</sup> Detail Components, Sto Gold Coat forms a StoGuard<sup>®</sup> air and water-resistive barrier system that offers building code compliance confirmed by ICC-ESR-1233. StoGuard barrier systems featuring Sto Gold Coat may be used in code compliant wall assemblies including rainscreen claddings, stucco, masonry walls and StoTherm<sup>®</sup> EIFS.





## Installation tailored to substrate requirements...

Sto Gold Coat is a water-based, vapor permeable, fluid-applied air and water-resistive barrier membrane that complies with IBC, IRC and IECC building code requirements, as confirmed in ICC-ESR-1233. It can be used on a wide range of substrates, behind most wall claddings. At the time of writing, over 250 million sq.ft. of Sto Gold Coat was in active service.

Fluid-applied membranes offer a number of important advantages. They are easily applied to complex wall geometries and form a direct chemical bond between membrane and substrate.

Once applied, fluid-applied membranes cannot be blown off the wall by high winds, and water cannot become trapped between the membrane and underlying substrate.

When installing a fluid-applied air and water-resistive barrier membrane, each substrate poses unique challenges. That's why Sto Gold Coat installation instructions are specific to each commonly used substrate material.



Concrete masonry units are rough, porous and draw moisture out of water-based products, helping them dry quickly. High-build membranes are well suited to the rough CMU surface.



Oriented strandboard (OSB) and plywood share properties of both CMU and ASTM C1177 sheathing. Neither as smooth as gypsum sheathing nor as porous and moisture absorbent as CMU, on wood-based substrates medium-build membranes cover rough areas and dry quickly.



ASTM C1177 gypsum sheathing is smooth and nonporous with limited moisture absorption. High membrane thickness can extend drying time. Already an air barrier material and less prone to pinhole formation, gypsum sheathing can be effectively protected with a thinner Sto Gold Coat membrane.



## ...is just the beginning

Sto Gold Coat is part of a StoGuard air and water-resistive barrier system. At movement joints, substrate transitions, penetrations, and transitions to roofing and below-grade air barriers, Sto Gold Coat membranes are seamlessly and flexibly tied together with StoGuard Detail Components. Examples of StoGuard Detail Components include Sto RapidGuard®, StoGuard Fabric, and StoGuard Conformable Membrane.

On rough openings, StoGuard flashing solutions seamlessly integrate with Sto Gold Coat. StoGuard provides several options for sealing penetrations and creating defined drainage planes to provide a pathway for egress of incidental moisture out of the wall.



StoGuard Detail Components provide multiple options for flashing rough openings. Sto RapidGuard, shown here, is a popular choice because it is easy to apply to complex shapes and is damp substrate tolerant.

Whether the substrate involved is cementitious, wood-based, gypsum, or some combination of materials, it is the flashings, penetrations, joints, and transitions that pose the greatest risk of air and water leakage.

That's why StoGuard Detail Components are typically installed first. Effective on their own, StoGuard Detail Components receive a compatible overcoat of Sto Gold Coat, creating an extra layer of protection where it is needed most.



## Three guide specification options, because one size doesn't fit all

In a world of compromise, Sto Gold Coat provides options. Architects, General Contractors, and Installers can come together on a specification that meets specific project needs.

Some things cannot be compromised. All Sto Gold Coat specifications are supported by the extensive third-party testing and proven real-world performance that Sto is famous for.

Features	Benefits
ICC-ESR-1233	Compliance with IBC, IRC and IECC requirements
Vapor permeable	Allows walls to dry out
Minimum 25°F installation	Weather tolerant
Three specification options	Match installation with project team needs

Specification	ASTM C1177 Glass Mat Gypsum		Plywood		OSB		CMU		Poured Concrete and ASTM C1325 Cement Board	
	Coats	WFT	Coats	WFT	Coats	WFT	Coats	WFT	Coats	WFT
<b>Substrate-Driven</b>	1	10 mils	1	10 mils	1 or 2	20 mils	2 or 3	20-60 mils	1	10 mils
<b>Medium-Build</b>	1 or 2	20 mils	1 or 2	20 mils	1 or 2	20 mils	2 or 3	20-60 mils	1 or 2	20 mils
<b>High-Build</b>	2 or 3	40 mils	2 or 3	40 mils	2 or 3	40 mils	2 or 3	40-60 mils	2 or 3	40 mils

WFT - Wet Film Thickness

Application with rollers may require extra coats to achieve design thickness.



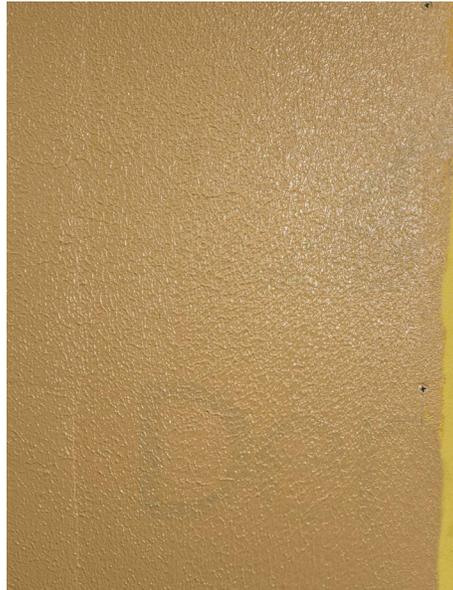


## Sto Gold Coat Substrate-Driven guide specification

The Sto Gold Coat Substrate-Driven specification requires high-build installation on CMU, medium-build on OSB sheathing, and low-build on ASTM C1177 sheathing. In this way, it makes installation fast, easy, and effective.

Each substrate receives specific installation instructions. The end result is optimization of both the speed and efficiency of Sto Gold Coat installation. Fast dry times minimize the effects of inclement weather. All critical areas receive an extra layer of Sto Gold Coat over StoGuard Detail Components.

Over 200 million square feet of Sto Gold Coat have been installed in this way. It is a proven method for efficient installation of a Sto Gold Coat based StoGuard air and water-resistive barrier system that meets International Building Code water-resistive barrier (WRB) requirements outlined in the ICC-ES AC212 *Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing*.



At 10 mils WFT, some read-through of underlying sheathing may be visible. This is normal and does not detract from Sto Gold Coat performance.





## Sto Gold Coat Medium-Build guide specification

Given the critical nature of air and water-resistive barrier performance, design teams may wish to specify additional protection. For example, on 50-year or 100-year construction, the peace of mind that a thicker layer of Sto Gold Coat provides may be well worth the modest extra cost.

The Sto Gold Coat Medium-Build specification requires at least 20-mils WFT on all substrates. At this thickness, substrate read-through is not apparent.

All StoGuard Detail Components typically receive a double-thickness application of Sto Gold Coat, boosting protection where it is needed most.



Substrate read-through that is evident at 10-mils WFT (left side) is not apparent at 20-mils WFT (right side).





## Sto Gold Coat High-Build guide specification

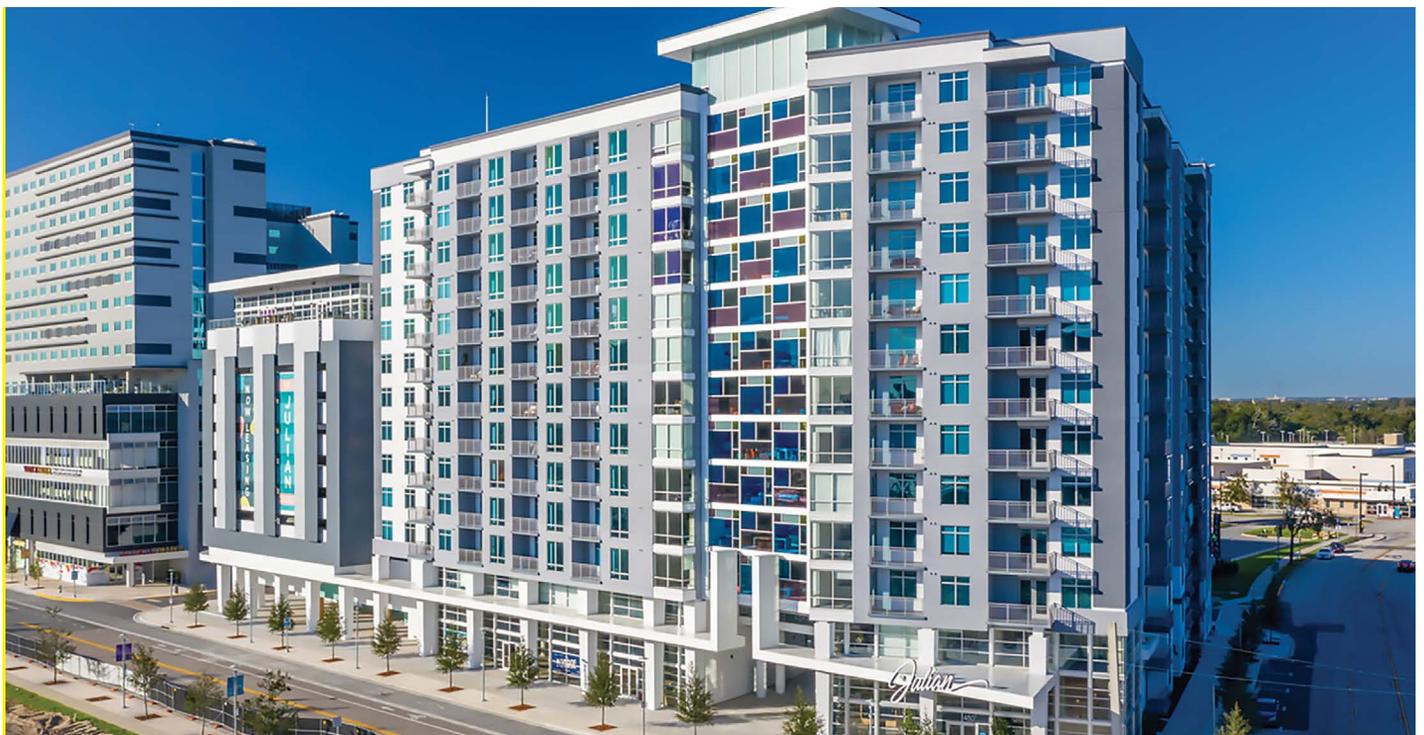
For buildings with 100-year service lives, for open-joint rainscreen wall systems, or where the construction team intends to employ the most conservative design and construction practices, the Sto Gold Coat High-Build specification may be appropriate.

This guide specification requires at least 40-mils WFT on all substrates. It provides maximum protection while retaining moisture vapor permeability. StoGuard Detail Components receive maximum extra protection.

The caveats to High-Build installation are somewhat extended dry times and modestly higher installed costs. In many cases, design teams will find these small compromises more than worthwhile.



The High-Build specification provides maximum protection everywhere.



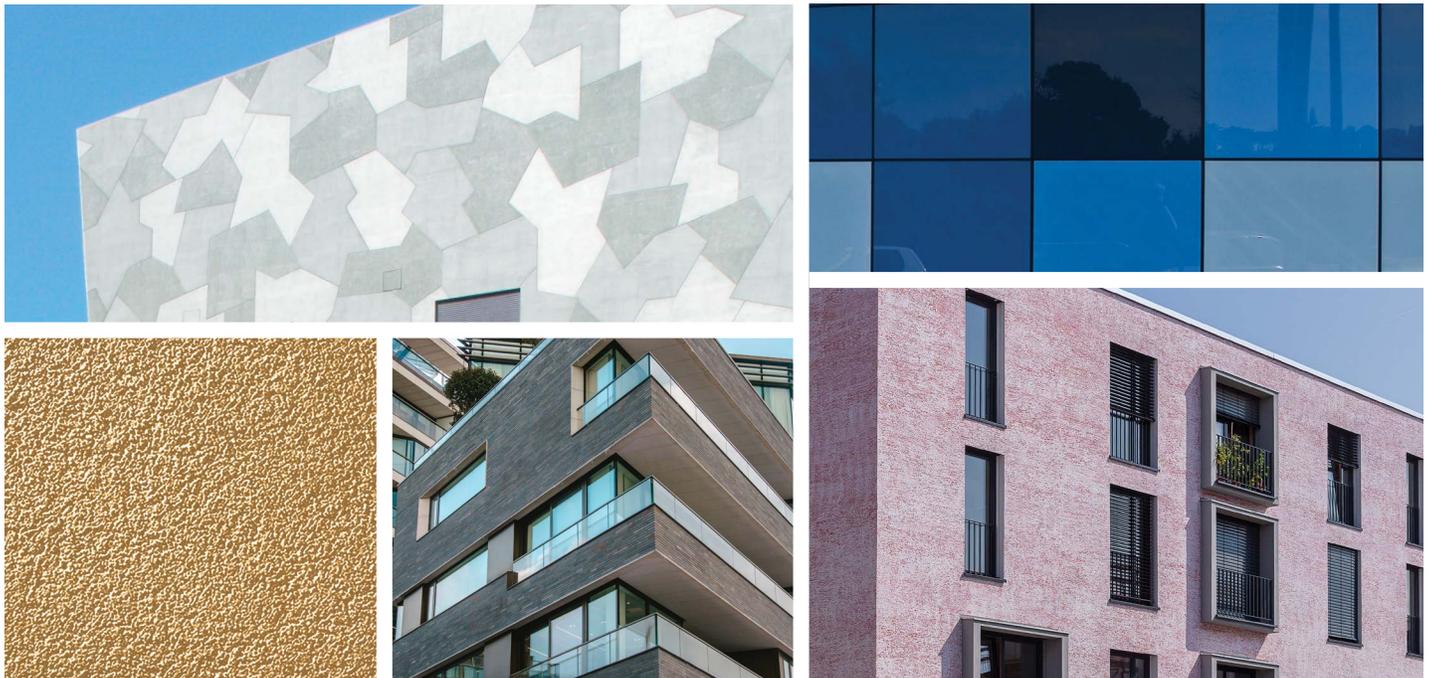


## The foundation for creativity.

Inspiration favors the open mind. With Sto, your creative exploration can take you anywhere. Our proven products give you unmatched freedom and the ability to achieve your vision in any color, any form, any texture, any material.

Thanks to StoGuard, practical considerations aren't considerations at all during creative exploration. As essential as air and water-resistive barriers are to any wall, and even though they are mandated by most building codes, they do not factor into the aesthetic design process in the slightest. StoGuard systems are designed and qualified for use with all code-compliant wall systems. Better still, by combining StoGuard with the complete set of wall systems offered by Sto Corp., the air and water-resistive barrier is fully integrated into wall system design and engineering. The result is complete freedom of aesthetic design, one continuous StoGuard air and water-resistive barrier, and cladding transitions that are compatible by design.

Creativity Begins. **Sto Finishes.**®



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