

Tech Hotline

No. 0504-BSc

Sto Guard® for Enhanced Resistance to Air Leakage and Moisture Protection of DensGlass Gold® Sheathing

DensGlass Gold® glass mat faced gypsum sheathing manufactured by Georgia-Pacific generally functions behind brick, stone, EIFS, and other siding materials as a fire-resistive component of the assembly. It also achieves a certain level of resistance to air leakage and water penetration resistance (Table 1, Fig. 1).

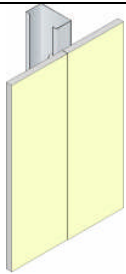


However, it is important to realize that the sheathing by itself is not an effective air barrier or moisture barrier in a wall assembly until the joints and fastener penetrations are treated. Sto Gold Fill®, the air barrier component of Sto Guard® Air/Moisture Barrier, is an excellent choice for joint treatment. It not only creates air barrier continuity at the sheathing joints, but also achieves a level of moisture protection that exceeds the level of protection of the sheathing surface (Table 1, Fig. 2).

For ultimate resistance to air leakage and moisture protection, the complete Sto Guard® assembly can be installed over the sheathing surface by top coating with Sto Gold Coat®. Sto Gold Coat®, the moisture barrier component of Sto Guard®, boosts the level of moisture protection significantly (Table 1, Fig. 3).

Any of the above assemblies may be appropriate, depending on whether an air barrier is required, and what levels of moisture protection are required for the construction in question. The requirements of local codes should always be checked to make sure that whatever assembly is chosen meets them.

For detailed information on Sto Guard® refer to Sto Product Bulletin No. 265/266. For information on DensGlass Gold® contact Georgia-Pacific at 800 225-6119 or www.gp.com.

Table 1. DensGlass Gold®: Levels of Air Leakage Resistance and Moisture Protection

 <p>Fig. 1. DensGlass Gold® Sheathing</p>	 <p>Fig. 2. DensGlass Gold® Sheathing with Sto Gold Fill® Joint Treatment</p>	 <p>Fig. 3. DensGlass Gold® Sheathing with Sto Guard Assembly: Sto Gold Fill® Joint Treatment + Sto Gold Coat®</p>
<p>DensGlass Gold® Sheathing by itself provides air leakage resistance and a modest level of moisture protection: 15 minutes @ 2.86 psf*. However, joints if left untreated, can become areas of excess air and water leakage.</p>	<p>Sto Gold Fill® Joint Treatment provides air barrier continuity at the joint and moisture protection <u>at the joint</u> is enhanced: 75 minutes at 6.24 psf*</p>	<p>Sto Guard® full assembly provides air barrier continuity and enhanced moisture protection of <u>the entire sheathing surface</u>, including joints: 75 minutes at 6.24 psf*</p>

* all results based on independent laboratory testing in conformance with ASTM E 331. To convert from psf to Pa multiply by 47.9