



TABS II CERTIFIED TESTING
International Building Codes (I-Codes) effective January 1, 2005
Testing done by I-Code Certified Laboratories

ASTM E-297-99 SHEAR BOND STRENGTH TEST OF MASTIC

Objective: Measure Tensile Bond Strength between thin brick and panel.

Result: After testing 4 (2"x 2") red tiles and 4 (2"x 2") tan tiles conforming to ASTM C1088 with Tabs II panel material bonded to one side. The following results were determined:

<u>Maximum Load</u>	<u>Average Bond Strength</u>
786 lbf	197 psi

Conclusion: Based on the above test results it is determined that it will take over 1500 lbs of force to pull one modular thin brick from the Tabs II Panel. With Specified amount of adhesive per installation Guide, Panel meets the International Building Code Sec. 1405.9.1

AFG-O1 MASTIC

Objective: Test mastic for strength, freeze/thaw, moisture and oxidation resistance.

Result: Strength under, over, freezing and wet was higher than 14 kg/cm² (200 PSI). Mastic durability to moisture and oxidation or aging passed test 100% with strength value higher than 18 kg/cm² (225 PSI).

Conclusion: Mastic is not affected by moisture, freeze/thaw cycling or oxidation even with a 3.5mm (1/16") thick glue line.

ASTM E-72 WINDLOAD TEST OF BUILDING PANELS

Objective: Determine wind load capacity of a composite TABS wall section based upon stud or girt spacing and deflection design of substrate.

DEFLECTION:

Summary of Test Results

Allowable panel load based on a deflection limit of:
 $L/360 =$ Allowable load of 416 kg/m² (85.3 PSF) Negative load

Unless clearance has been obtained from TABS WALL SYSTEMS, per a Specific project, design deflection shall be based on $L/360$.

WIND SPEEDS

Objective: To determine the allowable wind load values for the Tabs II wall panels with brick based upon the testing information provided by Omega Point Laboratories test report (project number 16976-121616) dated 11/17/2004.

Result: For all walls of structures with no unusual geometrical irregularities in spatial form and normal wind response characteristics, the following height allowances were determined for the Tabs II Wall Panel with brick under 150 mph wind load conditions, for exposure categories B & C, the maximum allowable height was determined to be 500 feet (152.4 meters) above grade. The value is limited by maximum allowable height values in Table 6.3 in ASCE-7-2. For exposure category D, the maximum allowable height was determined to be 400 feet (121.9 meters) above grade.

Conclusion: Per engineering report, Tabs II Wall Systems meets wind load requirement for residential and commercial high-rise applications.

ASTM E-119-00 FIRE RESISTANCE TEST

Objective: Determine the fire resistance of a wall system with TABS II for fire penetration that meets a 2-hour requirement.

Results: Temperature did not rise above prescribed levels and water hose test was met.

Conclusion: Fire Resistance testing has been certified and listed for TABS II wall assembly's by Omega Point Labs.

ASTME-84-03 SURFACE BURN SPREAD & SMOKE DEVELOPMENT

Objective: Determine the Flame spread and smoke development of a wall systems using TABS II, verifying TABS is a non combustible product.

Results: The test results, computed on the basis of observed flame front. Advance and electronic smoke density measurements are as follows:

<u>Test Specimen</u>	<u>Flame Spread Index</u>	<u>Smoke Developed</u>
Red Oak Flooring (baseline)	90	100
Mineral Fiber Cement Board	0	0
Brick Wall	0	0

Conclusion: Flame Spread Index = 0
Smoke Developed Index = 0

ASTM B-117-03 1000 HOUR SALT SPRAY TEST

Objective: Determine the corrosion resistance of the G90 Hot Dipped Galvanized Thermal Coated Support Panel when exposed to exterior weather conditions.

Results: The samples were exposed for 1000 hours, and rinsed after removal from the salt spray chamber. No staining or corrosion was observed.

Conclusion: Tabs II provides substantial protection on cut & punched edges for commercial & residential exterior weather conditions.

ASTM D1037-99 NAIL-HEAD PULL-THROUGH

Objective: Determine the amount of force needed to pull a fastener through the TABS II Panel.

Results: Average Nail-Head Pull-Through force 265 lbs Max Load

Conclusion: The fastener did not pull through the panel. The sheet metal bent while maxing out the testing equipment.

All above testing is available in Long Form & Short Form version upon request. All listed material has been tested to meet the requirements of the International Building Codes (I-Codes).