

Teifs TEK TIPS

SUBSTRATES

The Teifs WALL SYSTEM is an exterior insulation and finish system for new construction, as well as a highly practical solution for use on older structures. Many construction materials can be used as effective substrates. The following is a list of recommended substrates and recommendations for their use. Contact your Teifs technical department if you have any questions about substrates not on this list.

Concrete Block

Should be clean and plumb with joints struck flush. Make sure there are no dimensional variations in excess of $\pm 1/4''$ in 4' radius.

Concrete (Poured-in-Place and Precast)

Should be free from all grease, dirt or oils. If there is any doubt concerning the concrete, it should be either acid washed or a test section of TeifsBase and insulation board should be applied. Make sure there are no variations in excess of $\pm 1/4''$ in 4' radius.

Existing Masonry Surfaces

On all old masonry, the surface should be sound, clean and free of all foreign material.

Sound Glazed Brick, Tile, or Latex Painted Surfaces and Oil-Based Painted Surfaces

Should be free of peeling or scaling paint, chalk and blistering. Remove glaze by sanding and test for cohesion.

Stucco

Should be unpainted, sound and washed to remove dirt and loose material.

2.5 and 3.4 Self-Furring Galvanized Metal Lath

For use in high wind load conditions or as a retrofit substrate over painted surfaces. Using the ribbon and dab method, TeifsBase Mix should be applied to the insulation board.

Three types of sheathing are recommended for use with Class PB EIFS: gypsum based, wood based and cementitious. Each type has advantages and limitations. Sheathing for EIFS should be selected by the design professional on the basis of individual job requirements such as fire rating, wind loading, and anticipated weather exposure.

RECOMMENDED GYPSUM BASED SHEATHINGS

Paper Faced Treated Core Gypsum Sheathing in Compliance with ASTM C 79

The sheathing is composed of a non-combustible gypsum core with a water-resistant material in the core and a water-repellent paper bonded to the core. When storing, handling and installing gypsum sheathing, the practices published by the Gypsum Association must be followed.

Most important:

- The sheathing must be kept dry, properly supported and stored inside or off the ground, under cover, and protected from the weather.
- Maximum period of exposure after the application is one month unless severe weather occurs, in which case the sheathing must be protected by tenting, temporarily installing lapped building paper, or by other means to prevent weather damage. In addition, all other recommendations for use stated in Gypsum Association Publications GA-254 and GA-253 shall apply.
- In the event of weather damage to the sheathing, the damaged portion must be replaced before installation of the EIFS.

Glass Mat Faced Gypsum Sheathing in Compliance with ASTM C 1177

The sheathing is composed of a noncombustible water resistant gypsum core with glass mat facing embedded in the core.

Note: Should be sound, dry, clean and free of all foreign materials. Ensure factory applied alkali-resistant coating is facing away from the framing.

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RECOMMENDED CEMENTITIOUS SHEATHINGS

Flat Non- Asbestos Fiber-Cement Sheets in Compliance with ASTM C1186

Fiber reinforced cement flat sheets composed of inorganic hydraulic binder or calcium silicate binder and reinforced with organic fibers, inorganic non-asbestos fibers or both. Type A sheets are intended for exterior applications where they may be subjected to the direct action of the sun, rain or snow. Type B sheets are intended for exterior applications where they will not be subjected to the direct action of the sun, rain or snow.

Notes: To assure long term sheathing performance, water entry to the sheathing (including condensation), must be prevented to avoid damage to the sheathing substrate. The framing must be designed for a deflection not exceeding L/360 of the span including live and dead load.

RECOMMENDED WOOD BASED SHEATHINGS

Exterior Grade Plywood

Plywood sheathing made with waterproof glue and minimum C grade veneers designed for applications subject to permanent exposure to the weather or moisture.

Exposure 1 Plywood

Plywood sheathing made with waterproof glue and minimum D grade veneers. It is used for applications where construction delays may be expected prior to providing protection, or where high moisture conditions may be encountered in service.

Painted Plywood, or Flake Board

Use mechanical fasteners, according to Teifs guidelines or apply 2.5 or 3.4 galvanized lath over substrate.

Note: All wood sheathing used as a substrate for EIFS must be in compliance with US Product Standard PS 1-95 for Construction and Industrial Plywood.

If there is any doubt concerning coatings or sealers that may have been applied to a substrate, a test section should be made and evaluated. Apply a two-foot square section of Teifs Wall System to the substrate in doubt. Allow the section to dry for at least four days prior to removal. A successful test is indicated by failure within the insulation board. There should be no delamination from the substrate.



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Warning

This product is a component part of a complete TEIFS WALL SYSTEM. Specifications require that only approved, trained or otherwise knowledgeable applicators install such systems. TEIFS cannot be responsible for deterioration of the substrate, mold, mildew and wood rot due to water intrusion or entrapment from causes such as improperly installed windows; windows that leak at the miter joints, mullions, or through improperly installed glazing; improper flashing, lack of flashing or use of improper flashing materials; use of improper sealants; or inadequate specifications, details or installation of the TEIFS WALL SYSTEM. Sealants and flashing will also deteriorate over time if not maintained. Maintenance of the TEIFS WALL SYSTEM is required. No exterior insulation finish system should be installed on a residential project, (or any other projects as required by the applicable model code), without providing for a secondary weather resistant barrier.