

TruGrain™ 12 Inch Commercial Profile Installation Recommendations

- Delivery, Storage and Handling
- General Requirements
- Application of Stain & Sealer
- Storage and Handling (Post-Treatment)
- Installation Guidelines:
 - Recommended Tools
 - Fastener Requirements
 - Recommended Wall Assemblies
 - Installation Instructions



IMPORTANT: NEGLECTING TO FINISH AND INSTALL THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND THESE APPLICATION RECOMMENDATIONS MAY AFFECT SYSTEM PERFORMANCE, APPEARANCE, LEAD TO PERSONAL INJURY, VIOLATE LOCAL BUILDING CODES, AND WILL VOID ANY PRODUCT WARRANTY, IMPLIED OR EXPLICIT.

DELIVERY, STORAGE, & HANDLING PROCEDURES (PRE-TREATMENT):

- Inspect delivered material on arrival. (Confirm crating is intact & packing slip is accurate)
- Report damaged materials to Seller within 48 hours.
- Store flat and stacked as shipped.
- Panels must be elevated and never in contact with the ground.
- Unfinished stored panels should be covered to limit general open air climate exposure.
- To prevent damage to the exposed face, extra care should be taken when removing planks from the pallet to minimize scratching.

GENERAL REQUIREMENTS/ SPECIFICATIONS & TOLERANCES

- TruGrain 12 inch commercial siding profile can be processed with standard wood working equipment.
- The profile can be installed over concrete and single/double wall construction with metal or wood studs.
- The profile must be installed over furring strips with a minimum of 3/4" open air cavity and allow water to drain and air to freely flow behind the panels.
- Furring strips may be metal or wood.
- Typical panel fastener spacing is 16" O.C. (each stud)
- Only use sandpaper grits between 24 and max. 60 sanding in a longitudinal direction.
- The profile should be only used on flat vertical wall applications and horizontal soffit locations. Do not use for a walking surface. Other profiles exist for this purpose. Contact TruGrain for further information.
- It is highly recommended that mitered corners should not be attempted and an outside corner trim used.
- A water resistive barrier is required in accordance with local building codes. The panel assembly is not intended to be a sealed system.
- Do not use any other finish coats or sealers other than what is recommended.
- Black colored stain is not recommended due to the excessive heat gain.
- Pre-finishing in a controlled environment is preferred rather than field applied.
- All published TruGrain install recommendations and handling instructions for siding installation must be reviewed (www.tru-grain.com) in addition to

this document. If inconsistencies are found, the stricter requirement should be followed.

- Standard length: 96" (+/- 1/4")
- Coverage tolerance: +/- 1/16" (1.6 mm)
- Expansion/Contraction (per 8 LF): +/- 5/16" (90°F temperature variance)
- Maximum deflection: +/- 3/16" (4.8 mm)
- Weight: 3.4 lbs/sf

PRE-TREATMENT & CURING:

- Product A: Semi-transparent Floor Varnish Glaze (FVG- C)
 - Coverage: ~400 SF/Gal.
 - FVG-C is delivered ready-mixed and must not be diluted.
 - Varnish system is pre-diluted.
 - Drying of this product is a physical process of evaporation of dissolver/water.
 - Follow all application directions supplied with FVG product.
- Product B: 2 Part (2K Sealer) RFS
 - Coverage: ~400 SF/Gal. (typically sold by 1/2 gallon units)
 - This is a diluted transparent two component polyurethane sealer.
 - Part A is a varnish and part B is a hardener.
 - This sealer increases the mechanical & chemical resistance of the treated area.
 - Follow all application directions supplied with 2K Sealer product.

STORAGE & HANDLING PROCEDURES (POST-TREATMENT):

- Store flat and stacked, not spanning greater than 16" between supports. Do not stack greater than 15 panels tall.
- Panels must be elevated and never in contact with the ground.
- Panels will need to be stacked face to face with a protection layer separating the finished faces.
- Finished panels should be covered to limit general open air climate exposure.
- To prevent damage to the exposed face, extra care should be taken when removing planks from the pallet to minimize scratching.

INSTALLATION GUIDELINES:

- **Recommended Tools & Scaffolding:**
 - Level or Laser Level
 - Chalk line
 - Circular saw with carbide wood cutting blade (24T min.)
 - Pencil
 - Cordless drill w/drill bit set
 - Cordless Impact screw gun

- Magnetic nut driver
 - Jig saw
 - Extension cords
 - Mobile scaffolding such as scissor or boom lifts (Preferred)
 - Full frame scaffolding (Optional)
 - Joint spacer
- **Fastener Requirements:**
- Steel Studs: No. 12 x 1.25" HWH Self-Drilling Fastener. Recommended products include:
 - ITW TEK Select
 - Elco Drill-Flex
 - Elco Bi-Flex
 - Wood Studs: No. 10 x 2"-3" Hex Head Stainless Screw – 1.25"+ embedment into wood stud.
 - CMU/Concrete: Attach wood or metal furring strip to substrate using appropriate anchors. Attach panels to furring strips using the correct fastener listed above.
 - IMPORTANT: To allow for natural expansion and contraction of boards, cut minimum 1 inch long slots (if not already pre-slotted) with a biscuit joiner wherever you screw fasten the boards. Place the screw in the middle of the hole and allow the boards to expand and contract when tightening the screws.
 - Do not over tighten panel fasteners. Fasteners must allow for cladding panels to “float” within oversized, pre-drilled, slotted holes to allow for natural expansion/contraction.
 - The panel fastener at roughly the middle of the panel should be fully tightened; therefore the panel will expand and contract from that point. All other panel fasteners on a single panel should allow the panel to “float” for natural expansion/contraction as explained above.
 - If wood furring strips are to be used, it must be realized these furring strips will be in a moist environment and care must be used when selecting the proper wood for this use.
 - If furring strips are installed in a horizontal orientation, pre-punched ventilation holes must be placed in furring strips to allow water to drain and air to flow behind installed cladding panels.
- **Recommended Wall Assemblies for Attachment (but not limited to):**
1. Steel studs (18 gauge min. preferred) at 16" on center maximum spacing.
 - 1.1 Gypsum board
 - 1.2 WRB per local building code requirements
 - 1.3 Vertical metal furring strip (minimum ¾" depth)
 - 1.4 12" TruGrain Commercial Siding Panel

2. Wood studs at 16" on center maximum spacing.
 - 2.1 Plywood or OSB sheathing
 - 2.2 WRB per local building code requirements
 - 2.3 Vertical wood furring strip (minimum ¾" depth, not preferred due to longevity of wood in moist environment & insects)
 - 2.4 12" TruGrain Commercial Siding Panel
3. Exterior Insulated Rain Screen (with Knight MFI™ System)
 - 3.1 Steel or wood studs or CMU or concrete substrate
 - 3.2 Plywood, OSB, or Gypsum sheathing
 - 3.3 WRB per local building code requirements
 - 3.4 Exterior mineral fiber insulation (up to 6")
 - 3.5 ThermaBracket™ (Sizes available: 2" thru 6")
 - 3.6 Vertical/Horizontal Rail (dependent upon final orientation of installed cladding panel)
 - 3.7 Horizontal/vertical furring strip (minimum ¾" depth)
 - 3.8 12" TruGrain Commercial Siding Panel
4. CMU or concrete
 - 4.1 WRB per local building code requirements
 - 4.2 Vertical metal furring strip (minimum ¾" depth)
 - 4.3 12" TruGrain Commercial Siding Panel

o **Installation Instructions:**

1. Locate and layout the stud locations.
2. Establish the location of the bottom starter rail at the lowest elevation point.
3. Secure the starter rail level with the appropriate fastener.
4. Cut siding panel to length and set bottom hook of panel into the starter rail slot.
5. Once first panel is in place, locate each stud and fasten thru oversized, pre-drilled, slotted holes with supplied stainless No. 12 self-driller (metal) or lag screw (wood). Do not over tighten panel fasteners. Fasteners must allow for cladding panels to "float" to allow for expansion/contraction.
6. Upon completion of securing panel #1, install all of the other panels in that row until complete (from side-to-side). Butt-joints should maintain a minimum 3/8" gap throughout.
7. With the first row now completed, set the upper panels groove into the lower panels tongue in close proximity to its permanent location. Place ¼" "set-shims" within the horizontal joint created between the two panels. This is to establish the correct horizontal joint spacing and not allow tongue-and-groove to be fully engaged, allowing panels to "float". Permanently secure as described in step 5.

NOTE:

- The siding panel vertical joints can be set in a “stack-bond”, “staggered-bond” or “running-bond.”
 - These panels can be cantilevered up to 1.5” max.
8. With each proceeding row reuse the “set-shims” and repeat step #7 until the last row.
 9. If necessary, rip the panel to size to fit the last row (at parapet or under window sills). The top of the ripped panel will be face fastened to secure it back to the furring strips. The starter rail may be used behind the ripped top panel as a spacer.
 10. Refer to standard trim and flashing details that will apply.



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