

CRAFT BOARD FORM INSTALLATION INSTRUCTIONS

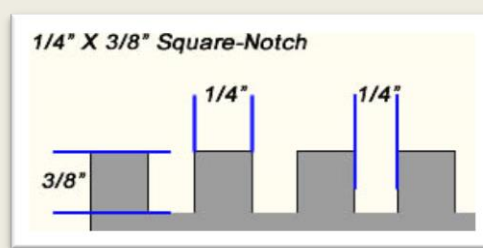
The Craft Board Form Installation Instructions assumes the installer has knowledge of the materials described and the proper methods of installation. Prior to commencing work, the installer shall inspect the substrate and conditions of installation and advise the general contractor and/or Architect of any conditions that need correction prior to installation of Board Form.

Building Code Requirements - Building code requirements may vary from region to region. Check with your local authorities for building code requirements for your region and application. Follow ASTM and ANSI guidelines for installation in extreme heat, cold or extreme windy conditions.

Project Site Requirements - The installation surface must be clean, dry and structurally sound. Scrape off any debris, sealers, dirt, or other imperfections from the wall. Clean the wall with a stiff brush and water, and clean any debris away from the ground or surface in front of the wall. After removal of the curing compounds and sealers, all rough, uneven or "out-of-plumb" surfaces must be made "plumb and true" to within 1/4" in 10' (6 mm in 3 m) using an approved mortar mix as detailed in these installation instructions. Don't worry about small cracks or holes; the setting mortar will fill those gaps.

TOOLS REQUIRED

- Stiff Brush
- Carpenter's Pencil
- Measuring Tape
- Straightedge
- Level
- Plumb Line
- Masonry Wet Saw
- Chalk Line
- High Bond Polymer Modified Mortar
- Trowels (smooth and notched)
- Masonry Nippers
- Grout Sponge
- Bucket
- Rubber Mallet



MATERIALS REQUIRED

Board Form Veneer - Purchase enough Board Form for your project. Measure the length and width of the wall space and multiply to get the square footage. Round up to the nearest whole number, then add 5% to allow for waste.

Lath - Lath and accessories must be made of corrosion resistant material and must be self-furred or use self-furring fasteners. The following lath materials are approved for installation of Board Form Veneer: 2.5 lb/yd² self-furred metal lath meeting ASTM C847, 3/8" rib, 3.4 lb/yd² self-furred metal lath meeting ASTM C847, 18 gauge (or heavier) woven wire mesh meeting ASTM C1032.

Scratch-coat - For applying a scratch-coat over an approved lath or for smoothing rough uneven substrates, use a Type S or N mortar mix meeting the requirements of ASTM C270. Other Premium mortar beds are accepted so long as they meet ASTM C270 and ASTM C91.

Bonding Mortar - Hi bond veneer mortars are recommended for all Board Form installations. They include but not limited to Laticrete's MVIS Hi-Bond Veneer Mortar or Orco's VBM 500 polymer modified Type S bonding mortar, or other high bond polymer modified mortars meeting the requirements of ASTM C270, ASTM C482, ASTM C1384, ANSI 118.4 – Shear bond properties (>300 psi), ANSI 118.11, ANSI 118.15, and ISO 13007-1.

Substrates - Substrate shall be structurally sound and conform to code compliant engineering designs. Reference the MVMA's Wall System chart for a list of approved wall surfaces (concrete surfaces, wood & metal studs, and others) for installing Board Form Products. Approved walls shall have a maximum deflection for thin bed installation of L/360 and L/460 for thick bed installation. All expansion control joints and movement joints shall be brought through the veneer to the surface. Expansion joints shall be installed at perimeter walls, columns, corners, changes of plane etc.

INSTALLATION:

Install a test panel using specified materials and installation methods to ensure successful application. During installation, periodically remove freshly set veneers to ensure adequate bond and to check for complete mortar coverage of the veneer backing to grooves. Protect installed veneers from vibration or damage from other trades.

Substrate preparation - All surfaces to receive bonding mortar shall be clean, free of any dirt, loose debris, paint, oil curing agents, release agents, bond breakers or any contaminant which may hinder bond. Curing agents, release agents, sealers or other contaminant shall be removed by bead-blasting, sand blasting, grinding or similar removal techniques. After the surface is prepared, apply a nominal 1/2" thick layer of an approved mortar ensuring the lath/surface is completely encapsulated with mortar. The mortar should be applied with sufficient pressure and thickness to fully embed the lath in mortar or cover entire surface. Once the mortar is thumbprint hard, scratch (score) the surface horizontally to create the mortar scratch coat. Moist curing the mortar scratch coat will help reduce cracking and ensure proper hydration during curing. Before applying the Board Form, the mortar scratch coat should be dampened so that the surface appears wet but free of standing water.

Bonding Mortar - Mix the bonding mortar according to the manufactures instructions. The bonding mortar shall be applied with a **notched trowel** (1/4" x 1/4") to the wall (substrate), and then a thin coat is applied with a regular trowel to the back of the veneer unit ensuring 100% coverage. While the mortar is still wet and tacky-place the veneer and tap into place ensuring good contact and 100% coverage.

Cut any Board Form pieces to fit at the ends of each row and column with a masonry wet saw. If you need to fit any Board Form around obstructions such as pipes or windows, make custom cuts with masonry nippers. Nip small pieces at a time to avoid cracking the entire piece.

Wear eye protection, work gloves, and a dust mask when using a tile saw. Mortar grout spills should clean up better by letting them dry to a crumbly stage and removing them rather than using a damp cloth.

END OF SECTION

These installation instructions were prepared specifically for Creative Mines, LLC. Comments or Suggestions for improvement should be addressed to: Creative Mines, LLC - 732 N Coast Highway 101 Ste C - Encinitas, CA 92024.