

IntexForms, Inc.

GlassFiber Reinforced Custom Products

January 2019
Spec 4A.33

Stonetex* (Glassfiber Reinforced Faux Stone) (For Interior Use)

1 GENERAL

1.1 Scope:

Furnish all materials, labor, equipment and related services necessary to supply and erect Intex Stonetex* units as indicated in the contract documents and in compliance with local codes.

1.2 Work Included:

1. Supply of Intex Stonetex* units
2. Erection
3. Joint Treatment
4. Supply and installation of back-up supports, etc.

1.3 Intent:

This specification is intended to generally outline the IntexForms, Inc. requirements. It is not intended to amend or change the 's specifications.

1.4 Responsibility:

This work shall be executed by carpenters skilled in "Millwork" or "Fine Carpentry". Stonetex* is a finished product and should not be specified or treated as a gypsum or drywall product.

1.5 Manufacturers:

IntexForms, Inc.
5421 84th Street. Sacramento, CA 95826
Tel: 916-388-9933 Fax: 916-388-9949

1.6 Samples and Submittals:

1. Submit a minimum of three (3) 3" x 3" Intex Stonetex* flat samples to the finishing contractor for color verification.
2. Submit shop drawings for approval showing plans, sections, details, joint treatment, reinforcing, fastening devices and the relation of the Intex product to the surrounding constructions.
3. Prior to production, upon request erect one prototype unit on site or at the Intex plant for inspection by the architect.

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2. PRODUCTS

2.1 Materials:

1. Stonetex* units are manufactured with:
 - A. Integral pigmented neutral calcium sulfate based cements, aggregates, and glassfiber reinforcing - asbestos not permitted.
 - B. Factory applied clear (non-gloss) sealer.
 - C. Built-in reinforcing ribs where required by the manufacturer for attachment or strength (not applicable for veneer panels).
2. Stonetex* matching grout - available from IntexForms, Inc.
3. Fasteners - supplied by installer.
4. Adhesive - supplied by installer. Adhesive to be PL Premium or equivalent. Other adhesives may leach through and may not meet ASTM requirements.

2.2 Tolerances - Fabrication

		Veneer Panels
Dimensional - Length or width	+/- 3/16"	+/- 1/32"
Thickness	- 1/16" to + 3/16"	+/- 1/16"
Warp/Bowing, out of plane	3/32" - ft	3/32" - ft

2.3 Physical Properties

Thickness shell - minimum	3/16" - 3/8"	5/16"
Thickness - with localized reinforcement	3/4" - 1/4"	n/a
Weight - depending on reinforcement	3 - 5 lbs/sf	2 lbs/sf
Density - approximate	95 lbs/sf	95 lbs/sf
Tensile strength	1140 psi	1140 psi
Bending strength	800 psi	800 psi
Compressive strength	3100 psi	3100 psi
Impact strength - ft/lb./inch	4.9 / 11.6	4.9 / 11.6
Rockwell hardness "R"	30 average	30 average
Fuel Contribution ASTM E 84-80	0	0
Flame Spread ASTM E 84-80	0	0
Smoke Index ASTM E 84-80	0	0

Note: Stonetex* has no hourly rating

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2.4 Color

As indicated elsewhere. Texture and color shading variations will occur between parts. **Do Not** try to match shadings in specific areas. Mix varying parts at random.

3.0 EXECUTION

Do not proceed without referring to “Stonetex* Installation Instructions” included with each shipment.

3.1 Delivery, Storage and Handling

1. Transport and handle Stonetex* in a manner that avoids stresses or damage.
2. Store Stonetex* units level on a clean and dry surface in an area protected from weather and damage. Do not “lean” the units since warpage may occur.

3.2 Pre-Installation Responsibilities

1. It is the installer’s responsibility to order the correct material quantities (including a waste allowance) and shall verify actual dimensions and conditions for inclusion with shop drawings prior to manufacturing. (Veneer panels do not require shop drawings).
2. Ensure that the substrate or back up is straight and true. At the fastener locations provide a solid back up to prevent screw “pull-out”.
3. For Veneer panels ensure that:
 1. The substrate (drywall or plywood) allows for 3/8” total thickness - 5/16” panel and 1/6” adhesive.
4. Pre-made Stonetex* outside corners have a slight radius on the inside! Allow for these by rounding off or by beveling the substrate corners. (Do not “bead” corners if the substrate is drywall).

3.3 Installation

1. General

1. The work shall be executed by carpenters skilled in “millwork” or “fine carpentry”.
2. Part thickness may vary (other than veneer panels). Allow for shim spaces between the Stonetex* and the back up or substrate.
3. Columns, moldings etc. are to be face fastened with countersunk screws that are grout filled.
4. (Veneer panels are to be adhered to the substrate.)

1. General ... cont'd

5. Some warpage may occur due to climatic or storage conditions. Carefully wet the back only with a brush and water and bend the part back into the required shape during fastening. "Over wetting" may stain the surface. (Veneer panels are slightly flexible and wetting should not be done.) Contact IntexForms, Inc. if warpage is excessive.

2. Lay Out

1. To minimize waste, do a lay out of the joint locations.

2. (For veneer panels do a complete lay out on the substrate showing joint locations, panel sizes etc as directed by the designer.)

3. There will be color and texture variations between the different parts. The lay out (mixed or matched colors/textures) should be verified with the designer.

3. Cutting

1. Unless noted, Stonetex* parts come in standard sizes only (ie veneer panels max. 24" x 48").

2. (There is no grain to - Natural Finish - Veneer Panels. Smaller than standard panels can be field cut vertically or horizontally to minimize waste.)

3. Cutting should be done carefully due to the "stone like" composition of Stonetex* and reinforcing ribs.
(Veneer panels do not have reinforcing ribs.)

4. When pre-made corners for moldings are not supplied, use a miter box or the tools listed below.
(For veneer corners see 3.3.5)

5. The following tools are recommended:

Table, cut-off or radial arm saw with diamond saw, dry cut tile blade or metal cutting (abrasive) wheel – i.e. Makita 12 - A.01345.
Carbide tipped blades work well, but "dull" quicker.

Sawzall with tungsten carbide blade – i.e. Milwaukee #4800 - 1420.

4. Edge Finishing after cutting

1. "Cut" edges on moldings etc can be smoothed with a sanding block or mini-sander with a #36 grit disk.

2. (After saw cutting veneer panels, use a sanding block with # 40 - #60 grit sandpaper to obtain a similar 45-degree bevel.)

5. Installation and Attachments

5.1 Moldings, Custom Panels, Columns etc

1. With carbide bit, drill and countersink holes - min. 5/8" from edges - at the "built in" reinforcement ribs.
2. Fasten the parts - min. 18"oc - with No. 6 or similar screws. Countersink the screws about 1/8" below the surface for filling after.
3. When using "trimhead" screws, use adhesive for additional security.
4. Where required, use joint spacers described under Grouting.

5.2 Veneer Panels

1. Apply walnut size dabs of adhesive on the panel back approximately 9" on center at least 1 1/2" in from the edges.
2. Press the panels in place and slide into position.
3. To hold the panels into place use a Brad Nailer such as the Senco SLP20. This is the simplest way to install a panel. In most cases, the brads are hidden in the material limiting the need to grout.
4. Pre-made outside 90° veneer corners can be supplied with one 5" and one 2 1/2" leg only. Other outside corners shall be field mitered, grouted and "bevel" sanded as per the "Stonetex* Installation Instructions" sketches. Sharp outside corners should not be attempted. Butt joints can be used for inside corners.

3.4 Joint Treatment, Grouting, Patching and Fixing

WARNING Use the Stonetex* grout sparingly. Applying or smearing the grout on the Stonetex* surface beyond the holes or joints will change the surface noticeably and spoil the overall appearance. Do not use drywall taping techniques or a trowel.

1. Joint Treatments (as directed by the designer)

1. Dry Joints - Butt the Stonetex* units and leave joints dry.
2. Grouted Joints - Stonetex* matching grout for moldings, columns etc.
 - 2.1 (Veneer Panel joints should never be grouted.)
 - 2.2 Install 1/16" - 1/8" wide spacers in joints to establish a constant width.

3.4 Joint Treatment, Grouting, Patching and Fixing

2.3 To avoid smearing, apply masking tape to either side of the joint before applying grout.

2.4 Finger fill the joints and “tool” the grouted joint i.e. - with a 3/16” dia. rod (drill bit shaft to obtain a half-rounded set back - sealing is not required. Do Not Attempt “Flush Joints”.

2.5 If the grout is smeared accidentally beyond the joint, remove immediately with a damp cloth or flexible scraper. If the grout smear had dried, sand lightly with #180 - #220 sandpaper and remove dust with a damp cloth. Exercise Caution.

2.6 Between Stonetex* and dissimilar materials unless dry joints are preferred.

3. Caulk Joints for contrasting effects.

3.1 Most available caulking compounds are compatible.

3.2 Prior to caulking, prepare the joints as described in “grouting joints” item 2.2 & 2.3.

4. Recommendations

4.1 Do Not try to give the Stonetex* installation a continuous look. Joints cannot be hidden.

4.2 If parts are misaligned, DO NOT attempt to obtain a level appearance by grout filling the “set-back” part. Leave the misalignment or reinstall.

4.3 (If wide joints as opposed to “butt” joints are required at panels, use only plastic laminate strips or caulk these wide spaced joints. DO NOT try to grout these joints and do not try to paint the substrate.

5. Hole Filling

5.1 Finger fill holes with matching grout, and remove excess grout immediately with a flexible scraper or damp cloth. The grout will blend in after approximately 24 hours.

DO NOT SMEAR THE GROUT ON THE STONETEX* SURFACE BEYOND THE HOLE SINCE THIS WILL SPOIL THE GENERAL APPEARANCE.