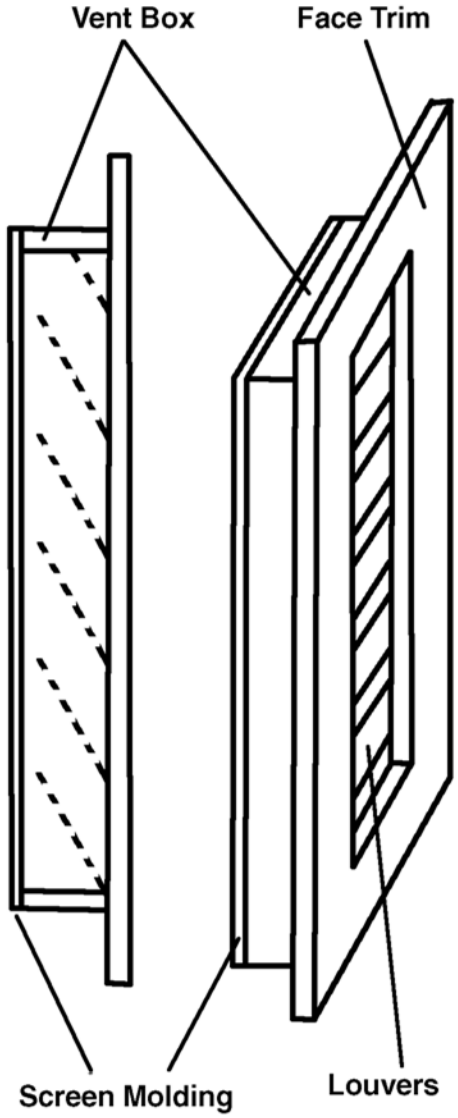
BESTLOUVER.COM

AZEK Gable Vents
Construction All shapes



The vent box is constructed of 3/4" x 2 3/4" lumber.

The Face trim is attached to the front of the vent box. The 2 3/4" flat trim over hangs the vent box 1 7/8". The 2" brick molding over hangs the vent box 1 1/8"

The louvers are 3/4" x 3 1/2" set in the vent box at a 30 degree angle. The louvers are spaced 3" apart and overlap each other 3/4". There is a net free air space of 7/8" per lineal inch between louvers.

A 1/4" thick screen molding is applied over aluminum screen wire on the back of the vent to stop bug and bird penetration, making the overall mounting depth of the vent 3". The depth can be minimized to 2" without changing the pitch of the louvers or altering the net free air space.

Joints are glued together using a water-proof wood glue. At the bottom of the vent box where the face trim attaches, a silicone barrier is applied to conduct moisture to the outside of the vent.

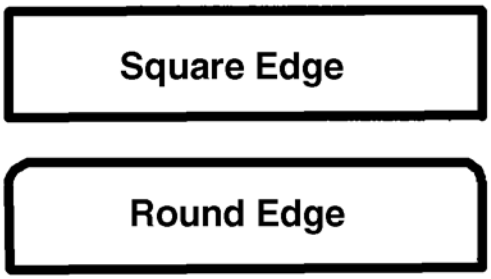
Galvanized staples are used throughout construction.

Bestlouver LLC, 14120 Winchester Court, Naples, FL 34114
Toll Free: 866-257-7449, • **Fax**: 203-664-1555
Email: mjhbestlouver@aol.com

BESTLOUVER.COM

Trim Profiles All shapes

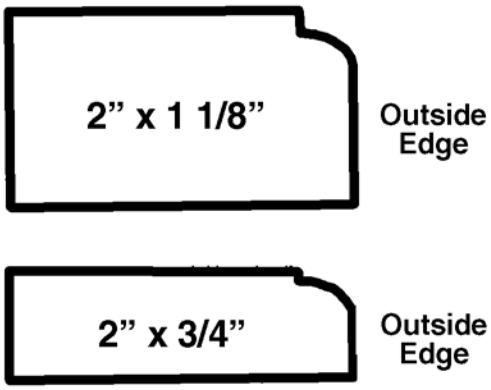
2 3/4" Flat Trim



The choice of face trim depends on both the application and the desired look.

When a siding is used such as wood, cement board, fiber board, vinyl or any other low profile siding the 2 3/4" flat trim is typically used. Wether you select the square edge or the round edge is a matter preference. The square edged trim is the most common because it matches most house trims which are also square edged.

Brick Molding



The brick molding is typically used in brick, stone, or stucco, although the 2 3/4" flat trim is sometimes used in a surface mount application on stucco. Bestlouver recommends the use of the 1 1/8" x 2" brick mold for most brick mold applications where the vent is set into the finished wall. The 1 1/8" (5/4) brick molding is a deeper profile for a more dramatic look.

The face trim is attached to the vent box with galvanized staples and water resistant glue.

When primer paint is ordered the staple holes and wood joints are puttied using a plastic putty and sanded smooth.

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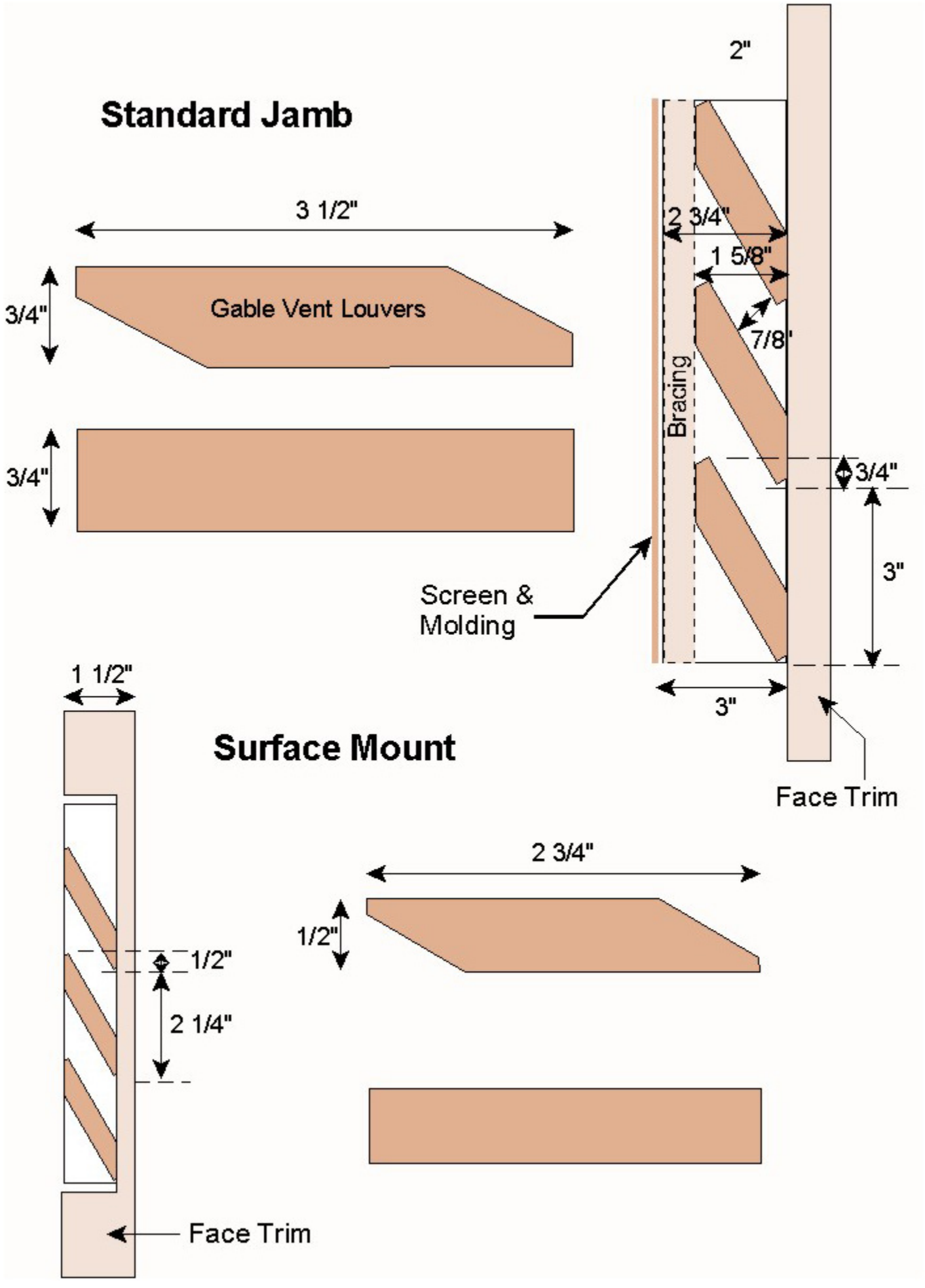
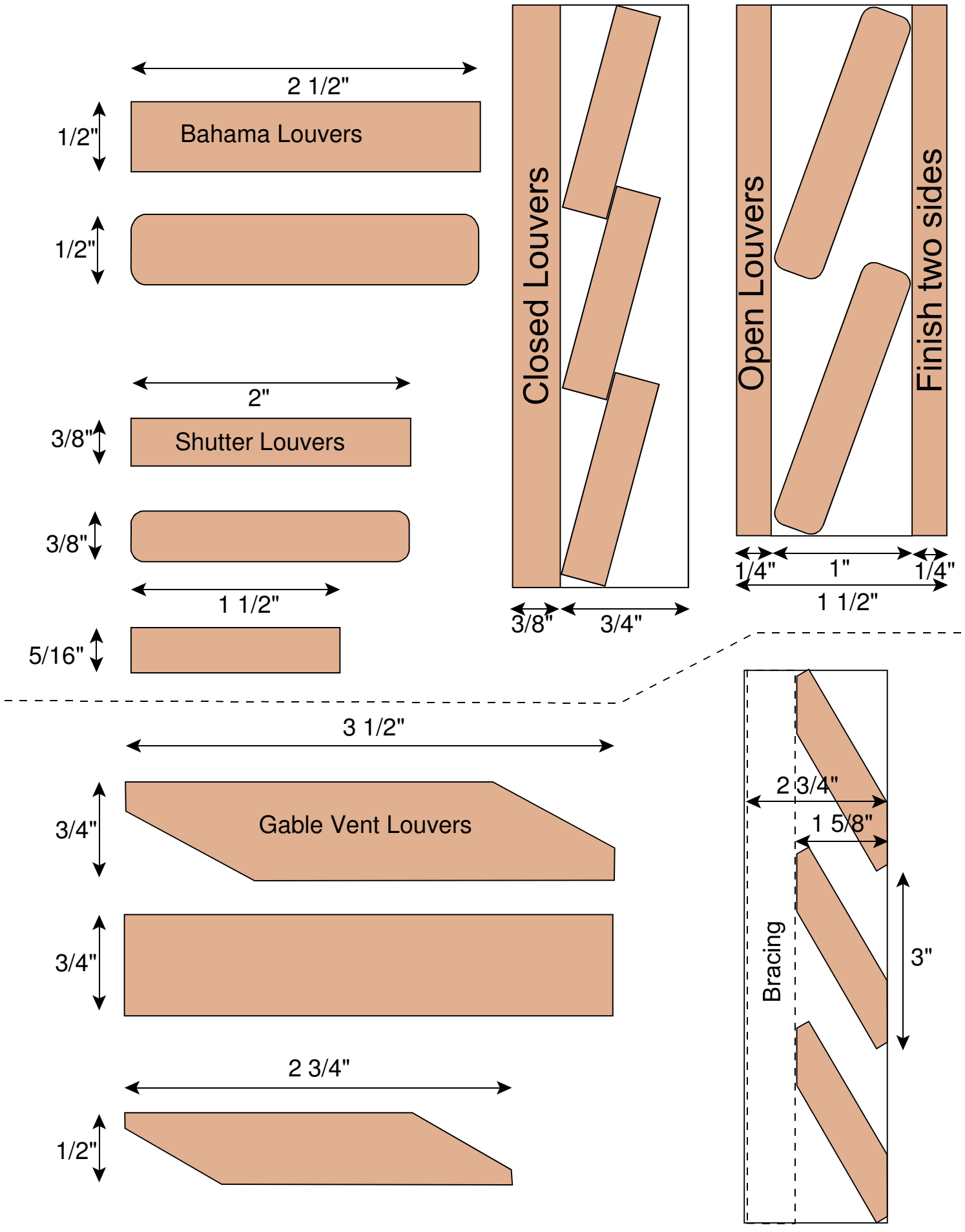
Toll Free: 866-257-7449, • **Fax**: 203-664-1555
Email: mjhbestlouver@aol.com


Standard Jamb
2"
3 1/2"
2 3/4"
1 5/8"
7/8"
3/4"
Gable Vent Louvers
Bracing
3/4"
3/4"
3"
Screen &
Molding
3"
Face Trim
1 1/2"
Surface Mount
2 3/4"
1/2"
1/2"
2 1/4"
Face Trim

Louver Profiles



VERSATEX®
TRIMBOARD

TRIM SMARTER.

Material Safety Data Sheet

I. Product Identification

Manufacturing Site: Wolfpac Technologies, Inc.
Address: 400 Steel Street
Trade Name: Polyvinyl Chloride Compound (PVC), VERSATEX Trimboard/ Sheet

Synonyms: Vinyl Polymers, Chloroethylene homopolymer compound
CAS Number: 9002-86-2

MSDS Contact: John D. Pace, President and COO
400 Steel Street
Aliquippa, PA 15001
Phone: (724) 857-1111
Fax: (724) 857-1171

II. Composition/Information on Ingredients

Component	CAS Number	WT%
Polyvinyl Chloride Resin	9002-86-2	>70%
Calcium Carbonate	1317-65-3	<10%
Titanium Dioxide	13463-67-7	<20%
Proprietary Additives	Mixture	<20%

This product is an article as defined in 29 CFR 1910.1200. It will not result in exposure to hazardous chemicals under normal conditions of use. This product is not subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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III. Physical Data

Appearance (Physical form):	Finished Board/Sheet (Solid)
Color:	Color(s) specified
Boiling Point, Freezing Point (F):	Not Applicable (Solid)
Specific Gravity (H20=1):	0.45 to 1.55
Vapor Pressure (mm Hg):	< 0.1 (Solid)
Melting Point:	Decomposes before melting
Solutility in Water:	Solid
Vapor Density:	Solid
Evaporation Rate (Butyl Acetate):	None (Solid)
Vapor Pressure:	Not applicable (Solid)
Odor:	Odorless
PH:	Not applicable (Solid)

IV. Fire and Explosion Data

- **Flash Point:** Not applicable
- **Autoignition Temperature:** Not applicable
- **Flammable Limits in Air. % by Vol.**
  Lower (Lel): Not applicable
  Upper (Uel): Not applicable
- **Extinguishing Media:** Dry chemical, Water spray (fog), foam, or carbon dioxide.

- **Special Fire Fighting Procedure:** Wear NIOSH approved, positive pressure, self-contained breathing apparatus especially in confined spaces. Full protective clothing. Evacuate all personnel from danger area.

- **Unusual Fire and Explosion Hazard:** PVC will not continue to burn without an external fire source. The gaseous products of PVC combustion are hydrogen chloride, carbon monoxide, carbon dioxide and other toxic gases. Exposure to combustion products may be fatal and should be avoided.

V. Health Hazard Information

(Pertains to dust or chips generated during fabrication processes on finished trim boards or sheet)

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First Aid:

- **Eyes:** Immediately flush with plenty of water for a period of 15 minutes. Do not rub eyes. If irritation persists consult a physician.
- **Skin Contact:** Flush skin with plenty of water. Remove contaminated clothing. Wash clothing before reuse. If irritation persists consult a physician.
- **Skin Absorption:** No absorption is likely to occur in its solid form.
- **Inhalation:** If respiratory irritation exists, remove to fresh air.
- **Ingestion:** Although unlikely under normal conditions and use, if indigestion occurs seek medical attention. Please reference section D, Fire and Explosion Data.
- **Medical Conditions Aggravated by Overexposure:** Available toxicological data and the physical and chemical properties of the product suggest that there is no evidence that this product will aggravate and existing medical condition.
- **Note to Physician:** Treat Symptomatically and supportively.
- **Other Instructions:** Never give anything by mouth to an unconscious person.

Nature of Hazard:

- **Eyes:** If exposed to high concentrations of dust, physical irritation of the eyes.
- **Skin:** This material is not expected to present a hazard to the intact skin. Molten sheet will produce thermal burns.
- **Inhalation:** Under normal conditions and with normal use, no inhalation hazard is presented. Please refer to Section IV, Fire and Explosion Data.
- **Ingestion:** No significant health hazard can be reasonably anticipated.

Exposure Limits:

- None established.
- ACGIH TLV of 10 mg/m3 total dust as an 8-hour TWA is recommended.
- OSHA-PEL: Not applicable

Toxicity Data:

- **Skin Contact:** A review of the pertinent literature did not reveal specific information for PVC.
- **Eye Contact:** A review of the pertinent literature did not reveal specific information for PVC.
- **Inhalation:** Rodents exposed by the dietary on inhalation route for 6 to 24 months have shown no significant toxicological effects.
- **Ingestion:** See above
- Special precautions-avoid inhalation of combustion products.

VERSATEX®
TRIMBOARD

TRIM SMARTER.

Material Safety Data Sheet

VI. Reactivity Data

Conditions Contributing To:

Instability: Not applicable

Incompatibility: Not applicable

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, hydrogen chloride and other toxic fumes generated with combustion.

Hazardous Polymerization: Will not occur. Not applicable.

VII. Spill or Leak Procedure

When producing chips or dust from fabricating PVC sheet, sweep, scoop, or vacuum and remove. Dispose of only in accordance with local, state, and federal regulations. Recycling of PVC sheet and boards should be encouraged whenever possible.

VIII. Special Protection Information

****Pertains to dust or chips as a by-product of fabricating finished sheet****

- **Ventilation Recommendations:** General ventilation when fabricating and nuisance dust control.
- Specific personal protective equipment
  - **Respiratory Protection:** If dust is produced during handing, an approved particular filter respirator should be used.
  - **Eyes:** Safety glasses or goggles.
  - **Gloves:** Wear gloves when cutting or fabricating sheet or trimboards. Use gloves when handling hot or molten sheet.
  - **Required Work:** Do not eat, drink or smoke in work area.
  - **Hygiene Procedure:** Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facilities.
  - **Other Clothing and Equipment:** As necessary when handling hot or molten sheet.

IX. Shipping Transfer and Storage

- Shipping Information-Non-hazardous for transportation purposes.
- Transportation and Storage
  - **Usual Shipping Containers:** Pelletized sheets
  - **Storage Transport:** Store in a cool, dry, well-ventilated area, away from sources of extreme heat or fire. Temperatures above 150°F may cause slow product degradation.
  - **Electrostatic Accumulation Hazard:** Yes
  - DOT Shipping Name - Not Listed
  - DOT Label - Not Applicable
  - DOT Hazard Glass - Not Regulated

VERSATEX®
TRIMBOARD

TRIM SMARTER.

Material Safety Data Sheet

- UN/NA Number-Not Applicable
- Hazard Labels/Placard(s) - Not Applicable
- Packing Group - Not Applicable
- RQ - Not Applicable
- ERG No. - Not Applicable

X. Ecological Information

Not data is available on the adverse effects of this product on the environment.

HFPA	HMIS
Fire - 1	Health - 0
Health - 0	Flammability - 1
Reactivity - 0	Reactivity - 0
Specific Hazard - None	Personal Protection Index - E

XI. Disclaimer Liability

The above data is based upon test performed by, and experience of Wolfpac Technologies or Wolfpac Technologies suppliers and is provided for informational purposes only. Wolfpac Technologies products are intended for sale to industrial and commercial customers. Wolfpac Technologies requests that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Wolfpac Technologies disclaims and liability for damage or injury which results from the use of the above data and nothing contained therein shall constitute a guarantee, warranty (including freedom from patent liability) by Wolfpac Technologies with respect to that data, the product described, or their use for any specific purpose, even if that purpose is known to Wolfpac Technologies. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility on the user.

CALIFORNIA DEPARTMENT of FORESTRY and FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL

WILDLAND URBAN INTERFACE (WUI) PRODUCTS

Published by *CAL-FIRE*

FIRE ENGINEERING DIVISION

BUILDING MATERIALS LISTING PROGRAM

Revised July 11, 2011

http://osfm.fire.ca.gov/strucfireengineer/pdf/bml/wuiproducts.pdf

Starting January 2008, the new 2007 California Building Code (CBC) becomes effective. For products to be used in the Wildland Urban Interface (WUI), there are some regulations that required building products to comply with specific standards.

In an effort to provide the home owners, industries, designers, local fire and building officials a readily list of "compliance WUI products", the State Fire Marshal is publishing this "WUI Products Handbook".

All products published in this handbook have been reviewed and verified their compliance in accordance with the new 2007 CBC by SFM staff. All products published in this book are "approved" by the SFM. They are not "Listed" unless a SFM Listing number is attached. It should be noted that products are not in this handbook may still comply with the standards since it is not a requirement for any products to be in this handbook.

This handbook will be categorized into 5 main sections:

1. *Exterior Wall Siding and Sheathing (SFM 12-7A-1)*
2. *Exterior Windows (SFM 12-7A-2)*
3. *Horizontal Projection Underside (SFM 12-7A-3)*
4. *Decking (SFM 12-7A-4)*
5. *Decking- Alternate Method A (SFM 12-7A-4A)*
6. *Ignition Resistant Material (SFM 12-7A-5)*

The handbook may contain other products that are not listed above.

The SFM reserves the right to remove any products in this handbook for cause. The local Authority Having Jurisdiction (AHJ) has the right to approved or dis-approved products for used within their respective jurisdiction.

Our approvals are based upon technical data submitted by applicants. The CSFM Fire Engineering staff reviews test results and/or other data, but does not make an independent verification of any claims. All products shall be constructed in accordance with all applicable codes and ordinances. Refer to the appropriate AHJ for details.

For all construction projects, please contact your local building department.

Wildland Urban Interface (WUI) Approved Products

Exterior Wall Siding and Sheathing (SFM Standard 12-7A-1)

◇Company Name: APA-THE ENGINEERED WOOD ASSOCIATION
7011 South 19th Street, Tacoma, WA 98466
Product Description: "APA 303®" plywood siding with shiplap edges, nominal 19/32" thick and grooves spaced 4" on center, manufactured with veneers of all Southern Pine or Douglas Fir face, back and center with Hemlock or Douglas fir cross piles, 4'x8' panel.

◇Company Name: APA-THE ENGINEERED WOOD ASSOCIATION
7011 South 19th Street, Tacoma, WA 98466
Product Description: "APA 303®" plywood siding with reverse-board and batten, nominal 19/32" thick and shiplap edges, grooves spaced 12" on center, manufactured with face, back and center of Douglas Fir veneers and cross ply veneers of Hemlock or Douglas, 4'x8' panel.

◇Company Name: BARRIER TECHNOLOGY CORP.
510 4th Street North, Watkins, MN 55389
Product Description: Blazeguard® sheathing with Pyrotite bonded to ½" CDX plywood, 3/8", 15/32", ½", 5/8" or ¾" thickness, panel size 4'x8'.

◇Company Name: BARRIER TECHNOLOGY CORP.
510 4th Street North, Watkins, MN 55389
Product Description: Blazeguard® sheathing with Pyrotite bonded to 7/16" oriented strand board (OSB), 3/8", 15/32", ½", 5/8" or ¾" thickness, panel size 4'x8'.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: Bodyguard® "V-Rustic" siding Pattern Number 793, 794 and 795, preservative treated pine, minimum 3/4x6 inches dimension, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum

thickness. For horizontal installation only.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: Bodyguard® "RAB Smooth Face R/S" back siding Nos. 371 and 372, preservative treated pine, minimum 1x6 inches dimension, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum thickness. For horizontal installation only.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: Bodyguard® 2 lap siding Nos. 430, preservative treated pine, minimum 1x6 inches dimension, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum thickness. For horizontal installation only.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: Bodyguard® 3 lap siding Nos. 432 and 433, preservative treated pine, minimum 1x8 inches dimension, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum thickness. For horizontal installation only.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: Bodyguard® cove siding Nos. 771 and 772, preservative treated pine, minimum 1x8 inches dimension, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CEDAR VALLEY MANUFACTURING
943 San Felipe Road, Hollister, CA 95023
Product Description: Cedar Valley FTX Pressure Treated 1-Course Cedar Shingle Panel, 7-1/8" exposure siding product, Western Red Cedar vertical-grain heartwood shingle, installed over oriented strand board (OSB) with a 7/16" minimum thickness. For

horizontal installation only.

- Company Name: CEDAR VALLEY MANUFACTURING
  943 San Felipe Road, Hollister, CA 95023
  Product Description: Cedar Valley "California Stack" 1-Course Cedar Shingle Siding Panel, 4-1/4" or greater exposure, Western Red Cedar vertical-grain heartwood shingle applied over fiberglass matte to a square cut plywood backer, installed over oriented strand board (OSB) with a 7/16" minimum thickness.

- Company Name: CERTAINTEED CORPORATION
  803 Belden Road, Jackson, MI 49203
  Product Description: "Weatherboards™" lap siding, fiber-cement, type " Smooth, Cedar, Smooth Bead, Textured Bead, Select Cedar, Dutch Lap", 5/16" thick, 5 ¼" to 12" width, 12' length.

- Company Name: CERTAINTEED CORPORATION
  803 Belden Road, Jackson, MI 49203
  Product Description: "Cedar Impression®" Double 7 Sable Brown/Natural Clay, molded Polypropylene siding, 14" width by 48" length, installed over ½" OSB with nominal ½" type X Gypsum wall board for sheathing.

- Company Name: CERTAINTEED CORPORATION
  803 Belden Road, Jackson, MI 49203
  Product Description: "Cedarboard ™" D6 Clapboard (Natural Clay) PVC vinyl siding, 1-1/4" thick, 14" width by 150" length, installed over ½" OSB with nominal ½" type X Gypsum wall board for sheathing.

- Company Name: CERTAINTEED CORPORATION
  803 Belden Road, Jackson, MI 49203
  Product Description: "Monogram 46 ™" Double 4 Clapboard (Natural Clay) PVC vinyl siding, 8" width by 150" length, installed over ½" type X Gypsum wall board for sheathing.

◇Company Name: CERTAINTEED CORPORATION
803 Belden Road, Jackson, MI 49203
Product Description: "Weatherboards™" shapes siding, fiber-cement, type "Perfection Shingle, Random Square Staggered Edge, Half Rounds, Octagons, 5/16" thick, 16" width, 48" length.

◇Company Name: CERTAINTEED CORPORATION
803 Belden Road, Jackson, MI 49203
Product Description: "Weatherboards™" vertical siding, fiber-cement, type "Stucco, Cedar 8"Groove, Cedar (no groove), Smooth, Octagons, 5/16" thick, 4'" width, 8, 9 or 10' length.

◇Company Name: COLLINS PRODUCTS LLC
6410 Highway 66, Klamath Falls, OR 97601
Product Description: TruWood® 7/16" Sturdy Panel vertical shiplap siding, installed over 5/8" Type X gypsum wallboard.

◇Company Name: COLLINS PRODUCTS LLC
6410 Highway 66, Klamath Falls, OR 97601
Product Description: TruWood® 7/16" Sturdy Panel, ¾ Channel Groove, Square Edge, Beaded Porch Panel, and Saw-tex panel vertical siding in 4'x8' panels, installed over 5/8" Type X gypsum wallboard.

◇Company Name: COLLINS PRODUCTS LLC
6410 Highway 66, Klamath Falls, OR 97601
Product Description: TruWood® 7/16" lap siding in Old Mill texture and Cedar Shake texture in 6", 8" and 9-1/2" widths, installed over 5/8" Type X gypsum wallboard.

◇Company Name: COLLINS PRODUCTS LLC
6410 Highway 66, Klamath Falls, OR 97601
Product Description: TruWood® 1/2" lap siding, Cottage Lap, Channel Rustic, Four Eight Cottage, Self-aligning, Sure lock, Sure Lock Cottage 6", Cedar Shake and Designer Shake Lap in Old Mill and Cedar shake texture, ½" thick and 6", 8", 12" and 16" widths, installed over 5/8" Type X gypsum wallboard.

◇Company Name: COLLINS PRODUCTS LLC
6410 Highway 66, Klamath Falls, OR 97601
Product Description: TruWood® 1/2" ¾ channel groove, square edge, ship lap, and 808 in Old Mill texture and Adobe texture, ½" thick, 4'x8' panels, installed over 5/8" Type X gypsum wallboard.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G V Joint REV R/Sawn Face" siding CRA #17 Pattern Number 711R, 712R and 713R, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G V Joint & CV" siding CRA #17 Pattern Number 616 and 617, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G Butt Joint S2S" siding CRA #17 Pattern Number 633 and 634, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G Butt Joint S2S" siding CRA #17 Pattern Number 633EE and 634EE, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal

installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G V Joint S2S V 1 Side" siding CRA #17 Pattern Number 708, 715 and 716, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G V Joint REV R/Sawn Face" siding CRA #17 Pattern Number 708R, 715R and 716R, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G V Joint S2S V 1 Side" siding CRA #17 Pattern Number 711, 712 and 713, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "T&G V Joint REV R/Sawn Face" siding CRA #17 Pattern Number 726R, 727R and 728R, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "Cove Shiplap" siding CRA #17 Pattern Number 770, 771 and 772, Clear Fire Retardant Fingerjoint

Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

❖Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "Channel Shiplap" siding CRA #17 Pattern Number 773, Clear Fire Retardant Fingerjoint Redwood, minimum 1x10 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

❖Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "V Joint Shiplap" siding CRA #17 Pattern Number 793, 794 and 795, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

❖Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "Shiplap Butt JT" siding CRA #17 Pattern Number 761, 762 and 763, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

❖Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "1" Channel Shiplap" siding CRA #17 Pattern Number 774, 775 and 776, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only

❖Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "RAB Smooth Face" siding CRA #17 Pattern Number 371, 372, and 373, Clear Fire Retardant Fingerjoint Redwood, minimum 3/4x6 dimension, with no holes or knots,

installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "RAB R/Sawn Face" siding CRA #17 Pattern Number 391, 392, 393 and 394 Clear Fire Retardant Fingerjoint Redwood, minimum 3/4x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "RAB R/Sawn Face" siding CRA #17 Pattern Number 476, 477, 478 and 479 Clear Fire Retardant Fingerjoint Redwood, minimum 1 1/4x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontal installation only.

◇Company Name: CREATUS WOOD PRODUCTS
4501 Brickell Privado Street, Ontario, CA 91761
Product Description: Creatus Wood Premier™ "2 Lap" siding CRA #17 Pattern Number 430, Clear Fire Retardant Fingerjoint Redwood, minimum 1x6 dimension, with no holes or knots, installed over oriented strand board (OSB) or plywood with 7/16" minimum thickness. For horizontally installation only.

◇Company Name: ELDORADO STONE
1200 Industry Street, Everett, WA 98203
Product Description: "Eldorado Stone" mineral composition formulated from a mixture of cement, perlite, shale, sand, and mineral oxide colors.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: "Artisan®" lap siding, fiber-cement, 5/8" thick.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: “Cemplank®” lap siding, fiber-cement, 5/16” thick.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: “Cempanel®” vertical siding, fiber-cement, 5/16” thick.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: “HardieShingle™” panel, fiber-cement, 1/4” thick.
“HardieShingle™” lap siding, fiber-cement, 1/4” thick.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: “HardiePlank™” lap siding, fiber-cement, 5/16” thick.
“HardiePanel™” vertical siding, fiber-cement, 5/16” thick.

◇Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: “LP SmartSide® Precision Series” exterior lap siding, oriented strand back-bone, 3/8” thick, applied over 1/2 standard gypsum wallboard.

◇Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: “LP SmartSide® Precision Series” exterior panel siding, oriented strand back-bone, 7/16” thick.

◇Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: “LP SmartSide® Fountation Series” exterior lap siding, wet process fiber back-bone, 1/2” thick, applied over 5/8” type X standard gypsum wallboard.

◇Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: “LP SmartSide® Fountation Series” exterior panel siding, wet

process fiber back-bone, 7/16" thick.

❖Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: "LP FlameBlock™" sheathing, 4' x 8' fire rated oriented strand board (OSB), 7/16" minimum nominal thickness with minimum Pyrotile thickness of 0.06, applied to fiberglass mat and Pyrotile laminate applied to one face of OSB, and SmartSide ™ precision series lap siding cladding.

❖Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: "LP FlameBlock™" sheathing, 4' x 8' fire rated oriented strand board (OSB), 7/16" minimum nominal thickness with minimum Pyrotile thickness of 0.06, applied direct to OSB sheathing and Pyrotile laminate applied to one face of OSB, and Cedar Sidewall Shingles, ½" butt end thickness cladding, or Plain Bevel solid wood siding, Cedar or other species, various widths.

❖Company Name: MEXALIT INDUSTRIAL, S.A. de C.V.
849 East Sanhill Avenue, Carson, CA 90746
Product Description: "MaxiPanel" flat fiber cement panel, ¼", 5/16" or 7/17" thick x 48" width x 8", 9" or 10" length.

❖Company Name: MEXALIT INDUSTRIAL, S.A. de C.V.
849 East Sanhill Avenue, Carson, CA 90746
Product Description: "MaxiPlank" flat fiber cement panel, 5/16" thick x 6", 6-1/4", 7-1/2", 8-1/4", 9-1/2", or 12" width x 12" length.

❖Company Name: MEXALIT INDUSTRIAL, S.A. de C.V.
849 East Sanhill Avenue, Carson, CA 90746
Product Description: "MaxiTrim" flat fiber cement plank, smooth, cedar or textured finish, nominal 7/16" thick x 5-1/2"width, installed over 15lbs felt weather barrier, oriented horizontally.

❖Company Name: MEXALIT INDUSTRIAL, S.A. de C.V.

849 East Sanhill Avenue, Carson, CA 90746
Product Description: "Multishake" flat fiber cement panel, ¼" thick x 16" width x 4" length.

◇Company Name: NICHIHA USA, INC.
6659 Peachtree Industrial Blvd., Suite AA, Norcross, GA 30092
Product Description: EX Series "Field Stone" Brick and Stone panels siding, smooth and textured surfaces, 5/8" thick fiber cement, installed over 7/16" oriented strand board (OSB).

◇Company Name: NICHIHA USA, INC.
6659 Peachtree Industrial Blvd., Suite AA, Norcross, GA 30092
Product Description: Sierra Premium Shake panels siding, smooth and textured surfaces, 1/2" thick x 9" wide fiber cement, installed over 7/16" oriented strand board (OSB).

◇Company Name: NICHIHA USA, INC.
6659 Peachtree Industrial Blvd., Suite AA, Norcross, GA 30092
Product Description: NichiBoard smooth and cedar textures, unprimed cementitious board, 5-1/4", 6-1/4", 7-1/4", 8-1/4", 9-1/4" and 12' wide x 12 feet long x 5/16" thick.

◇Company Name: NICHIHA USA, INC.
6659 Peachtree Industrial Blvd., Suite AA, Norcross, GA 30092
Product Description: NichiPanel smooth and cedar textures, unprimed cementitious panel, 4' x 8', 4' x 10', 4' x 12', and 5/16" thick.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: "Texture T 1-11", grooving detail with 3/8" wide. ¼" deep vertical grooves spaced 4" on center, 19/32" thick, 4" groove spacing, ¼" groove depth, 3/8" groove width, ship lap edge, manufactured with Douglas Fir plywood panel with Western Red Cedar surface veneer, 4'x8', 4'x9' or 4'x10'panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: "Texture T 1-11", grooving detail with 3/8" wide. ¼" deep

vertical grooves spaced 4” on center, 19/32” thick, 8” groove spacing, ¼” groove depth, 3/8” groove width, ship lap edge, manufactured with Douglas Fir plywood panel with Western Red Cedar surface veneer, 4’x8’, 4’x9’ or 4’x10’panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: “Texture T 1-11”, grooving detail with 3/8” wide. ¼” deep vertical grooves spaced 4” on center, 19/32” thick, 4” groove spacing, ¼” groove depth, 3/8” groove width, ship lap edge, manufactured with “Craftsman Panel” Douglas Fir plywood panel with Okoume surface veneer, 4’x8’, 4’x9’ or 4’x10’ panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: “Texture T 1-11”, grooving detail with 3/8” wide. ¼” deep vertical grooves spaced 4” on center, 19/32” thick, 8” groove spacing, ¼” groove depth, 3/8” groove width, ship lap edge, manufactured with “Craftsman Panel” Douglas Fir plywood panel with Okoume surface veneer, 4’x8’, 4’x9’ or 4’x10’ panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: “Reverse Board and Batten”, 12” grooving detail with 1-1/2” wide. ¼” deep vertical grooves spaced 12” on center, installed over 7/16” oriented strand board (OSB), 19/32” thick, 12” groove spacing, ¼” groove depth, 1-1/2” groove width, ship lap edge, manufactured with Douglas Fir plywood panel with Western Red Cedar surface veneer, 4’x8’, 4’x9’ or 4’x10’ panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: “Reverse Board and Batten”, 12” grooving detail with 1-1/2” wide. ¼” deep vertical grooves spaced 12” on center, installed over 7/16” oriented strand board (OSB), 19/32” thick, 12” groove spacing, ¼” groove depth, 1-1/2” groove

width, ship lap edge, manufactured with “Craftsman Panel” Douglas Fir plywood panel with Okoume surface veneer, 4’x8’, 4’x9’ or 4’x10’ panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: “Texture T 1-11”, no grooving detail, flat surface facing, 19/32” thick, square edge, manufactured with Douglas Fir plywood panel with Western Red Cedar veneer, 4’x8’, 4’x9’ or 4’x10’ panel.

◇Company Name: PANEL CRAFTERS INC.
8251 14th Street, White City, OR 97503
Product Description: “Texture T 1-11”, no grooving detail, flat surface facing, 19/32” thick, square edge, manufactured with “Craftsman Panel” Douglas Fir plywood panel with Okoume surface veneer, 4’x8’, 4’x9’ or 4’x10’ panel.

◇Company Name: ROSEBURG FOREST PRODUCTS Co.
P.O. Box 1088, Roseburg, OR 97470
Product Description: “Breckenridge” Siding, 19/32” thick, plain square edge, APA certified siding, installed over 15/32” CDX plywood sheathing.

◇Company Name: ROSEBURG FOREST PRODUCTS Co.
P.O. Box 1088, Roseburg, OR 97470
Product Description: “Douglas Fir” siding, 19/32” thick, 12” groove spacing, 1.5” groove width, 3/8” groove depth, shiplap, APA certified siding, installed over 15/32” CDX plywood sheathing.

◇Company Name: ROSEBURG FOREST PRODUCTS Co.
P.O. Box 1088, Roseburg, OR 97470
Product Description: “DuraTemp™” siding, 15/32” thick, 4 ply, 8” groove spacing, 3/8” groove width, lap edge, APA certified siding, installed over 15/32” CDX plywood sheathing.

◇Company Name: ROSEBURG FOREST PRODUCTS Co.
P.O. Box 1088, Roseburg, OR 97470

Product Description: "DuraTemp™" siding, primed ship lap siding,19/32" thick, 4'x8', 5 ply-4 plys Douglas fir veneer with hardboard face ply, 8" groove spacing, nominal 3/8" groove width, nominal 0.30" panel thickness at groove and lap edge (1/4" groove depth), APA certified siding indicating conformity with PRP-108 and ICC-ES ESR-4856 evaluation report, installed over ½" plywood or 7/16" OSB sheathing.

◇Company Name: SHAKERTOWN
1200 Kerron Street, Winlock, WA 98596
Product Description: "Shakertown® Craftman™" 1-course Cedar Shingle Panel siding, 4-1/2" thick or wider, manufactured using Western Red Cedar vertical-grain heartwood shinglesover a full plywood back, 3/8" shingle butt and overlocking end-joints, and installed over 7/16" oriented strandboard (OSB) sheathing and #15 building paper. For horizontal installation only.

◇Company Name: WEATHER-TILE LOG SIDING PRODUCTS, INC.
3963 Garden Spot Rd., Loon Lake, WA 99148
Product Description: "Wane Edge" solid wood lap siding made of Ponderosa Pine, Redwood, Western Red Cedar, Incense Cedar, Port Orford Cedar, or Alaska Yellow Cedar, or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84, 1" thick (thickest point) 5/8" x 2"bevel, 10" or wider, with a minimum overlap of 2" over the undercourse, installed over 7/16" oriented strandboard (OSB) sheathing.

◇Company Name: WHISPER CREEK LOG HOMES
997 West 950 North, Suite 100, Centerville, UT 84014
Product Description: "Whisper Creek Log" siding, nominal ½ round "slices" cut from softwood log, mechanically fastened to 7/16" oriented strand board sheathing and supported on nominal 2" x 6" lumber framing. The log sections measured approximately 9' wide, 3" to 4" at the radius, with a nominal 1" gap between sections. Foamed polyethylene backer rod filled the gap between log sections, providing support to a minimum ½' thick application of UL listed Sashco Sealant, Inc. chinking material.

❖Company Name: WINDSOR MILL
7950 Redwood Drive #4, Cotati, CA 94931
Product Description: WindsorONE® 8025 w 1212 preservative treated radiate solid pine wood siding, 1”x6”, 1”x8”, and 1”x10” v-rustic shiplap siding pattern, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16” minimum thickness. For “Horizontal” installation only.

❖Company Name: WINDSOR MILL
7950 Redwood Drive #4, Cotati, CA 94931
Product Description: WindsorONE+® protected siding, end-and edge-glued preservative treated radiate pine, nominal 1”x 6”, 1” x 8” or 1” x 10” “V-Rustic” shiplap, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16” minimum thickness with Exposure 1 rating. For “Horizontal” installation only.

❖Company Name: WINDSOR MILL
7950 Redwood Drive #4, Cotati, CA 94931
Product Description: WindsorONE+® protected siding, end-and edge-glued preservative treated radiate pine, nominal 1”x 6” or 1” x 10” “Cove” shiplap, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16” minimum thickness with Exposure 1 rating. For “Horizontal” installation only.

❖Company Name: WINDSOR MILL
7950 Redwood Drive #4, Cotati, CA 94931
Product Description: WindsorONE+® protected siding, end-and edge-glued preservative treated radiate pine, nominal 1”x 6” or 1” x 8” “Rabbetted bevel”, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16” minimum thickness with Exposure 1 rating. For “Horizontal” installation only.

❖Company Name: WINDSOR MILL
7950 Redwood Drive #4, Cotati, CA 94931
Product Description: WindsorONE+® protected, end-and edge-glued preservative

treated radiate pine, nominal 1"x 6", 1" x 8" or 1" x 10" lap siding, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum thickness with Exposure 1 rating. For "Horizontal" installation only.

◇Company Name: WINDSOR MILL
7950 Redwood Drive #4, Cotati, CA 94931
Product Description: WindsorONE+® protected siding, end-and edge-glued preservative treated radiate pine, nominal 1"x 8" or 1" x 10" "Channel Bevel" shiplap, with no through holes or loose knots, installed over oriented strand board (OSB) with a 7/16" minimum thickness with Exposure 1 rating. For "Horizontal" installation only.

◇Company Name: SHAKERTOWN
1200 Kerron Street, Winlock, WA 98596
Product Description: Shakertown® Craftsman™ 1-Course Cedar Shingle Panel, 4-1/2", 7' and 14" exposure siding product, Western Red Cedar vertical-grain heartwood shingle, installed over oriented strand board (OSB) with a 7/16" minimum thickness. For horizontal installation only.

◇Company Name: Various Manufacturers
Product Description: Solid-sawn "Wood" siding with no through holes or loose knots, installed over structural plywood or oriented strand board (OSB) with a 7/16" minimum thickness and complying with Voluntary Product Standard PS1 or Voluntary Product Standard PS2, with the following interlocking designs when installed in accordance with industrial technical guide. Refer to manufacturer's installations for details.

1. Tongued & Grooved, Shiplap, Channel Shiplap, V Shiplap, Log Cabin: When applied in a horizontal orientation with minimum nominal 6" wide and nominal 1" thick boards made of wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", "Ponderosa Pine", "Douglas Fir", "White Fir", and "Western Spruce", or other wood species having a Flame Spread Rating not greater than 150 (Class C) when tested

in accordance with ASTM E84.

1a. Tongued & Grooved, Shiplap, V Shiplap (Edge Vee One Side): When applied in a horizontal orientation with minimum nominal 4" wide and nominal 1" thick boards made of wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84. An additional face nail is to be added and shall be placed on the face, approximately 1" from the groove edge for T&G or overlapping edge for shiplap designs.

2. Rabbeted Bevel: When applied in a horizontal orientation with minimum nominal 6" wide and nominal 1" thick boards made of a wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84.
3. Board and Batten: When applied in a vertical orientation with minimum nominal 8" wide and nominal 1" thick boards, and minimum nominal 4" wide and nominal 1-1/4" thick battens, with boards installed with a gap not more than ½", with battens fastened to the wood frame with not less than 3" long fasteners at a schedule not more than 24" on center, and boards and battens made of a wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84.
4. Tongued & Grooved, Shiplap, Channel Shiplap, V Shiplap: When applied in a vertical orientation with minimum nominal 6" wide and nominal 1" thick boards made of wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", "Ponderosa Pine", "Douglas Fir", "White Fir", and "Western Spruce", or other wood species having a Flame Spread Rating not greater than 100 (Class C) when tested in accordance with ASTM E84.

4a. Tongued & Grooved, Shiplap, Channel Shiplap, V Shiplap (Edge Vee One Side): When applied in a vertical orientation with minimum nominal 4" wide and nominal 1" thick boards made of wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84. An additional face nail is to be applied on the surface, approximately 1" from the grooved or shiplap edge.

5. Board on Board: When applied in a vertical orientation with minimum nominal 8" wide and nominal 1" thick boards, and ¾" thick x 3-1/2" wide plywood inserts between boards, with boards and plywood inserts installed with a gap not more than 1/8" between them and fastened to the wood frame with not less than 3" long fasteners at a schedule not more than 24" on center, and boards made of a wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84.

All nominal board sizes shall comply with the applicable provisions of American Softwood Lumber Standard DOC PS 20. Edge and end glued siding is permitted to be used interchangeably with solid sawn members.

The recommended installation practice for solid wood siding in wall construction regarding butt and overlapping joints is: butt joints between pieces should be staggered a minimum of 12" and all butt joints should be flush with no gap. Nail joints into the studs or blocking members. One nail at each crossing with the wood frame support member shall be used for nominal 6" siding and 2 nails for nominal 8" or wider siding.

Exterior Windows (SFM Standard 12-7A-2)

◇Company Name: MILLWORKS ETC., INC.

2586 Calcite Cir., Newbury Park, CA 91320
Product Description: "Wood Casement Window", 36" width x 40" length (nominal) with 1/4" Millfire 1 laminated safety glass CFR 1201 CAT II, Meranti/Mahogani sill and frame.

◇Company Name: STEELWORKS ETC., INC.
2586 Calcite Cir., Newbury Park, CA 91320
Product Description: "Steel Casement Window", 36" width x 40" length (nominal) with 1/4" Millfire 1 laminated safety glass CFR 1201 CAT II, mild and cold rolled steel frame.

Exterior Door Assemblies (SFM Standard 12-7A-1)

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of ½" Douglas Fir plywood face covered with a 1/16" medium density fiberboard (MDF) veneer, nominal 1-3/8" thick polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2" and measured 2-3/4" where the MDF moldings are affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of ½" MDO (medium density overlay) plywood face covered with a 5/8" Extira trim, nominal 1-3/8" thick polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2" and measured 2-3/4" where the Extira trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of ½" MDO (medium

density overlay) plywood face covered with a ½" x 6 Clear Western Red Cedar 2nd layer, 1x6 Clear Western Red Cedar trim, nominal 1-3/8" thick polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-3/4" and measured 3-1/16" where the Clear Western Red Cedar trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691

Product Description: Custom Wood Garage Door, constructed of ½" MDO (medium density overlay) plywood face covered with 1x6 STK Incense Cedar trim, 1x6 STK Incense Cedar 2nd layer face, nominal 1-3/8" thick polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-3/4" and measured 3-5/16" where the STK Incense Cedar trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691

Product Description: Custom Wood Garage Door, constructed of 5/8" MDO (medium density overlay) plywood face covered with a 5/8'" Extira wood composite trim, nominal 1-3/8" thick polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-1/4" and measured 2-13/16" where the Extira trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691

Product Description: Custom Wood Garage Door, constructed of ½" MDO (medium density overlay) plywood face covered with 3/8" x 6 Mahogany overlay, 1x6 Mahogany trim, nominal 1-3/8" thick polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-1/2" and

measured 3-1/16” where the Mahogany trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of ½” MDO (medium density overlay) plywood face covered with 1x6 Douglas Fir overlay, 1x6 Douglas Fir trim, nominal 1-3/8” thick polystyrene foam insulation occupying the hollow core, ¼” plywood back face, and 1-3/8” thick by 2-1/2” wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-3/4” and measured 3-5/16” where the Douglas Fir trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of ½” MDO (medium density overlay) plywood face covered with 1x6 Redwood overlay, 1x6 Redwood trim, nominal 1-3/8” thick polystyrene foam insulation occupying the hollow core, ¼” plywood back face, and 1-3/8” thick by 2-1/2” wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-3/4” and measured 3-5/16” where the Redwood trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of 5/8” Breckenridge siding face covered with 1x6 Clear Western Red Cedar trim, nominal 1-3/8” thick polystyrene foam insulation occupying the hollow core, ¼” plywood back face, and 1-3/8” thick by 2-1/2” wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2-1/4” and measured 2-13/16” where the Clear Western Red Cedar trim is affixed.

◇Company Name: CARRIAGE HOUSE DOOR COMPANY
P.O. Box 572, West Sacramento, CA 95691
Product Description: Custom Wood Garage Door, constructed of 1/2” Marine Mahogany plywood face covered with 1x6 Clear Western Red Cedar or 1x6 Mahogany trim, nominal 1-3/8” thick

polystyrene foam insulation occupying the hollow core, ¼" plywood back face, and 1-3/8" thick by 2-1/2" wide Douglas Fir stiles and rails, with one stile located at the center of the panel. The overall thickness of the door is 2" and measured 2-11/16" where the Clear Western Red Cedar or Mahogany trim is affixed.

◇Company Name: JELD-WEN INC.
3737 Lakeport Blvd., Klamath Falls, OR 97601
Product Description: Jeld-Wen FR fiberglass clad polyurethane door-Aurora Door, single swing type, 3' x 6' 8" x 1-3/4" thick.

◇Company Name: PLASTPRO INC.,
5200 West Century Blvd., Los Angeles, CA 90045
Product Description: Plastpro's fiberglass door with foam core, 3' x 6'8" x 1-3/4" single swing type embossed 20 minute rating.

◇Company Name: PLASTPRO INC.,
5200 West Century Blvd., Los Angeles, CA 90045
Product Description: Plastpro's fiberglass door with foam core, 3' x 6'8" x 1-3/4" single swing type flush 20 minute rating.

◇Company Name: PLASTPRO INC.,
5200 West Century Blvd., Los Angeles, CA 90045
Product Description: Plastpro's fiberglass door with foam core, 3' x 8' x 1-3/4" single swing type embossed 20 minute rating.

◇Company Name: PLASTPRO INC.,
5200 West Century Blvd., Los Angeles, CA 90045
Product Description: Plastpro's fiberglass door with foam core, 3' x 8' x 1-3/4" single swing type flush 20 minute rating.

◇Company Name: PLASTPRO INC.,
5200 West Century Blvd., Los Angeles, CA 90045
Product Description: Plastpro's fiberglass door with foam core, 3'6" x 8' x 1-3/4" single swing type Rustic & Mahogany door.
Test Protocol: SFM 12-7A-1

◇Company Name: PLASTPRO INC.,
5200 West Century Blvd., Los Angeles, CA 90045
Product Description: Plastpro's Model 3080 flush or rustic fiberglass door with foam core, 3' x 8' x 1-3/4" single swing type 20 minutes rating.

◇Company Name: RANCH HOUSE DOORS
1527 Pomona Road, Corona, CA 92880
Product Description: Custom Garage Door, constructed of 1/2" mixed Hemfir plywood with medium density overlay veneer over a nominal 1-3/32" frame (solid wood stiles and rails) with 1" polystyrene foam insulation in the hollow core, and ¼" nominal plywood back. The overall door thickness is 1-27/32" minimum up to 3-1/2" with overlay.

Under Eave (SFM Standard 12-7A-3)

◇Company Name: BARRIER TECHNOLOGY CORP.
510 4th Street North, Watkins, MN 55389
Product Description: Blazeguard® sheathing with Pyrotite bonded to ½" CDX plywood, 3/8", 15/32", ½", 5/8" or ¾" thickness, panel size 4'x8'.

◇Company Name: BARRIER TECHNOLOGY CORP.
510 4th Street North, Watkins, MN 55389
Product Description: Blazeguard® sheathing with Pyrotite bonded to 7/16" oriented strand board (OSB), 3/8", 15/32", ½", 5/8" or ¾" thickness, panel size 4'x8'.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: "Bodyguard® #801" tongue and groove, pressure treated pine, minimum 9/16" thick x 3-1/4" wide (nominal 5/8" x 4"), installed over 1/2" regular gypsum board.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: "Bodyguard® #802" tongue and groove, pressure treated pine, minimum 3/4" thick x 5-7/16" wide (nominal 1" x 6"), installed over 1/2" regular gypsum board.

◇Company Name: BODYGUARD WOOD PRODUCTS
5485 NW Osprey Place, Portland, OR 97229
Product Description: Bodyguard® "V-Rustic" Pattern Number 793, 794 and 795, preservative treated pine, minimum ¾" thick x 6" wide (or wider) dimensions, installed over 1/2" regular gypsum board.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: "CemSoffit®" un-vented, fiber-cement soffit, 3/16" thick and ¼" thick.

◇Company Name: JAMES HARDIE BUILDING PRODUCTS, INC.
10901 Elm Avenue, Fontana, CA 92337
Product Description: "HardieSoffit®" un-vented, fiber-cement soffit, 3/16" thick and ¼" thick.

◇Company Name: MEXALIT INDUSTRIAL, S.A. de C.V.
849 East Sanhill Avenue, Carson, CA 90746
Product Description: "MaxiSoffit" flat fiber cement panel, ¼" or 5/16" thick x 24" or 48" width x 8", 9" or 10" length.

◇Company Name: LOUISIANA-PACIFIC
414 Union Street, Suite 2000, Nashville, TN 37219
Product Description: "LP FlameBlock™" sheathing, 4' x 8' fire rated oriented strand board (OSB), 15/32" minimum nominal thickness with minimum Pyrotile applied direct to one face of OSB, 1/8" gap at joist nailer and Cedar and Redwood v-ceiling cladding products of nominal 5/8" (thickness or greater) x 4" (Width or wider).

Decking (SFM Standard 12-7A-4 and 12-7A-4A)

❖Company Name:	ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES, INC.
	914 North Jefferson, Springdale, AR 72764
Product Description:	"ChoiceDek® FR" composite wood plastic deck board, 1-3/16" x 5-3/8" , 1-3/8" x 5-3/8" and 1" x5.4", all colors.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class C (Refer to Exception of 704A.4.1.1 (3) (b))
Revised	July 11, 2011

❖Company Name:	ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES, INC.
	914 North Jefferson, Springdale, AR 72764
Product Description:	"MoistureShield® FR" composite wood plastic deck board, 1-3/16" x 5-3/8" , 1-3/8" x 5-3/8" and 1" x5.4", all colors.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class C (Refer to Exception of 704A.4.1.1 (3) (b))
Revised	July 11, 2011

❖Company Name:	AZEK BUILDING PRODUCTS
	801 East Corey Street, Scranton, PA 18505
Product Description:	"AZEK Deck" composite deck board, all colors, 1" thick x 5.5" width.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

❖Company Name:	AZEK BUILDING PRODUCTS
	801 East Corey Street, Scranton, PA 18505
Product Description:	"AZEK Deck" composite deck board, all colors, 1" thick x 3.5" width.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

❖Company Name:	AZEK BUILDING PRODUCTS
	801 East Corey Street, Scranton, PA 18505
Product Description:	"AZEK Deck" "Harvest, Arbor and Terra Collections" composite deck board, all colors, 1" thick x 3.5" width or 5.5" width
Test Protocol	12-7A-4, Part A only, Accelerated weathering.

Flame Spread	Class B

◇Company Name:	AZEK BUILDING PRODUCTS 801 East Corey Street, Scranton, PA 18505
Product Description:	"AZEK Porch" tongue and groove composite deck board, all colors, 1" thick x 3 1/8" width.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

◇Company Name:	BLUELINX 901 Bay Marina Dr., National City, CA 91950
Product Description:	"Bluelinx Mangaris Diamond", Merbau hardwood deck board, ¾" thick x 5-1/2" wide, 1.63 lb/lineal foot (57 lb/cu.ft), reddish brown color.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class A

◇Company Name:	CALI BAMBOO 9365 Waples Street, Suite D, San Diego, CA 92121
Description:	"CaliBamboo® BamDeck™" deck board, edge-grooved with grooved surfaces, 0.8" thick (nominal) x 5.5" wide, 1.8 lb/lineal foot.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class A

◇Company Name:	ENDURIS EXTRUSION INC. 7167 Old King Road, Jacksonville, FL 92219
Product Description:	"Endeck" composite (PVC) deck board, 1" thick x 5.5" width
Test Protocol	12-7A-4A
Flame Spread	Class C (Refer to Exception of 704A.4.1.1 (3) (b))
Issued Date	July 11, 2011

◇Company Name:	EPOCH COMPOSITE PRODUCTS, INC., A TAMKO COMPANY 223 South KK Highway, Lamar, MO 64759
Product Description:	"EverGrain" composite deck board, 15/16" thick x 5.5" width
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class C (Refer to Exception of 704A.4.1.1 (3) (b))

◇Company Name: EPOCH COMPOSITE PRODUCTS, INC., A TAMKO COMPANY
223 South KK Highway, Lamar, MO 64759
Product Description: "EverGrain" composite deck board, 1- 7/16" thick x 5.5" width
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class C (Refer to Exception of 704A.4.1.1 (3) (b))

◇Company Name: FIBER COMPOSITES, LLC
181 Random Drive, New London, NC 28127
Product Description: "Fiberon" composite deck board, 1" thick x 5 1/8" width.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: FIBER COMPOSITES, LLC
181 Random Drive, New London, NC 28127
Product Description: "Portico" composite deck board, 1" thick x 5 1/8" width.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: FIBER COMPOSITES, LLC
181 Random Drive, New London, NC 28127
Product Description: "Veranda" composite deck board, 1" thick x 5 1/8" width.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: FIBER COMPOSITES, LLC
181 Random Drive, New London, NC 28127
Product Description: "WeatherBest™" composite deck board, 1" thick x 5 1/8" width.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: FIBER COMPOSITES, LLC
181 Random Drive, New London, NC 28127
Product Description: "Sensibuilt™" cellular PVC composite deck board, squared edge, 1" thick x 5 1/2" width, 1.73 lbs/lineal foot.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class A

◇Company Name: GAF-ELK CORPORATION
9806 Lackman Road, Lenexa, KS 66219
Product Description: “CrossTimbers Professional Grade FR” composite deck board, 1” thick x 5.5” width (nominal 1” x 6”).
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: GAF-ELK CORPORATION
9806 Lackman Road, Lenexa, KS 66219
Product Description: “DuraLife™” composite deck board, edge-grooved, solid, 15/16” thick x 5-3/8” wide, 2.7 lb/lineal foot (nominal).
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: GAF-ELK CORPORATION
9806 Lackman Road, Lenexa, KS 66219
Product Description: “DuraLife™” composite deck board, non-grooved, solid, 15/16” thick x 5-3/8” wide, 2.7 lb/lineal foot (nominal).
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: GAF-ELK CORPORATION
9806 Lackman Road, Lenexa, KS 66219
Product Description: “Veranda™” composite deck board, solid, 15/16” thick x 5-1/4” wide, 2.7 lb/lineal foot (nominal).
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: GOSSEN CORPORATION
2030 W. Bender Road, Milwaukee, WI 53209
Product Description: “Passport” Cellular PVC deck board, brown color, 1” thick x 5 1/2” width, rounded edges.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: GOSSEN CORPORATION
2030 W. Bender Road, Milwaukee, WI 53209

Product Description:	“Weather Ready” Cellular PVC deck board, mocha color, 1” thick x 5 1/2” width, rounded edges.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

◇Company Name:	INTEPLAST WORLD-PAK 9 Peach Hill Rd, Livingston, NJ 07039
Product Description:	“TUF DECK™” extruded PVC composite square edge deck board, 15/16” thick x 5-7/16” width, 1.65 lb/lineal foot
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class A

◇Company Name:	LIFETIME COMPOSITES LLC 2121 Palomar Airport Rd., Suite 320, Carlbad, CA 92024
Product Description:	“LifeTime Lumber” composite deck board, 1-1/2” thick x 5-1/2” width.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

◇Company Name:	NEW FOREST STRATEGY P.O. Box 212, Sonoma, CA 95476
Product Description:	“DreamDex” scientifically enhanced performance lumber deck board, 1” thick x 5-1/2” width.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class A

◇Company Name:	NOVA USA WOOD PRODUCT 1022 NW Marshall Street #480, Porland, OR 97209
Product Description:	“Batu” solid wood decking material, 5/4” thick x 6” width or 1” thick x 6” width.
Test Protocol	12-7A-4A
Flame Spread	Class A
Issued Date	June 14, 2011

◇Company Name:	NOVA USA WOOD PRODUCT 1022 NW Marshall Street #480, Porland, OR 97209
Product Description:	“Cumaru” solid wood decking material, 5/4” thick x 6” width or 1” thick x 6” width.

Test Protocol 12-7A-4A
Flame Spread Class C (Refer to Exception of 704A.4.1.1 (3) (b))
Issued Date June 14, 2011

◇Company Name: NOVA USA WOOD PRODUCT
1022 NW Marshall Street #480, Porland, OR 97209
Product Description: “Ipe” solid wood decking material, 5/4” thick x 6” width or 1” thick x 6” width.
Test Protocol 12-7A-4A
Flame Spread Class B
Issued Date June 14, 2011

◇Company Name: REDWOOD EMPIRE
10 Madrone Avenue, Morgan Hills, CA 95038
Product Description: Redwood Empire Brand "IPE" Hardwood decking materials. Dimensions 1" x 6" or 5/4" x 6" x 2". *(June 20, 2011)*
Test Protocol 12-7A-4A
Flame Spread Class B

◇Company Name: TIMBERTECH
894 Prairie Avenue, Wilmington, OH 45177
Product Description: “DockSider™ Plank” wood plastic composite (WPC) deck board, square edge, 1-1/4” thick x 5-1/2” wide, 3-1/2 lb/lineal foot.
Test Protocol 12-7A-4A, Accelerated weathering.
Flame Spread Class B

◇Company Name: TIMBERTECH
894 Prairie Avenue, Wilmington, OH 45177
Product Description: “Earthwood™ Plank” wood plastic composite (WPC) deck board, square edge and grooved, 1” thick x 5-7/16” wide, 2.7 to 2.8 lb/lineal foot.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: TIMBERTECH
894 Prairie Avenue, Wilmington, OH 45177
Product Description: “ReliaBoard™” HDPE composite deck board, square edge, scalloped back surface, ¾” at thinnest portion, 15/16” at

thickest, 5-3/8” wide and nominally 2.4 lb/lineal foot.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: TIMBERTECH
894 Prairie Avenue, Wilmington, OH 45177
Product Description: “TwinFinish™ Plank” wood plastic composite (WPC) deck board, square edge and grooved, 1” thick x 5-7/16” wide, 2.7 to 2.8 lb/lineal foot.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: TIMBERTECH
894 Prairie Avenue, Wilmington, OH 45177
Product Description: “TimberTech XLM™” plastic composite deck board, square edge and grooved, 1” thick x 5-1/2” wide, nominal 1.6 lb/lineal foot.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class A

◇Company Name: TREX COMPANY, INC.
245 Capitol Avenue, Winchester, VA 22601
Product Description: “Trex® Accents®: Fire Defense” wood and polyethylene composite deck board, nominal 5/4” thick x 5-1/2” width, nominal density of 0.036 lb/in^3.
Test Protocol 12-7A-4, Part A only, Accelerated weathering.
Flame Spread Class B

◇Company Name: TREX COMPANY, INC.
245 Capitol Avenue, Winchester, VA 22601
Product Description: “Trex® Escapes®” cellular PVC composite deck board, nominal 1” thick x 5-1/2” width, nominal density of 1.6 lbs/linear ft.
Test Protocol 12-7A-4, Part A and B, Accelerated weathering.
Flame Spread Class A

◇Company Name: TREX COMPANY, INC.
245 Capitol Avenue, Winchester, VA 22601
Product Description: “Trex® Transcend®” composite deck board, square edge,

	nominal 1” thick x 5-1/2” width, density of 4.85lbs/linear ft.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

◇Company Name:	SABRA INTERNATIONAL INC. 300 71st Street, Suite 430, Miami Beach, FL 33141
Product Description:	Sabra Brand “IPE” square edge deck board, ¾” thick x 5.3” width, nominal density of 63.2 lb/in^3.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.
Flame Spread	Class B

◇Company Name:	Various Manufacturers
Product Description:	Solid “Wood” decking, when installed over minimum 2” x 6” solid “Douglas Fir” or better joists, spaced 24” or less on center, and decking and joists complying with American Softwood Lumber Standard PS 20 as follows: 1. Minimum nominal 5/4” thick and nominal 6” wide decking boards with a maximum 3/8” radius edges made of: “Redwood”, “Western Red Cedar”, “Incense Cedar”, “Port Orford Cedar”, or “Alaska Yellow Cedar”. Lumber grades: construction common, commercial or better grades for Redwood; 3 common, commercial or better grades for Cedars. The above species are having a Class B Flame Spread rating when tested in accordance with ASTM E84. 2. Minimum nominal 5/4” thick and 6” wide decking boards with a maximum 3/8” radius edge made of Ponderosa Pine; PATIO 2 grade or better. The above species are having a Class C Flame Spread rating when tested in accordance with ASTM E84.
Test Protocol	12-7A-4, Part A only, Accelerated weathering.

Ignition-Resistant Materials (ASTM E84 for 30 Min. with Accelerated Weathering Test)

◇Company Name:	BARRIER TECHNOLOGY CORP. 510 4th Street North, Watkins, MN 55389

Product Description: Blazeguard® sheathing with Pyrotite bonded to ½" CDX plywood, 3/8", 15/32", ½", 5/8" or ¾" thickness, panel size 4'x8'.

◇Company Name: BARRIER TECHNOLOGY CORP.
510 4th Street North, Watkins, MN 55389
Product Description: Blazeguard® sheathing with Pyrotite bonded to 7/16" oriented strand board (OSB), 3/8", 15/32", ½", 5/8" or ¾" thickness, panel size 4'x8'.

◇Company Name: CHEMCO INC.
4191 Grandview Road (P.O. Box 875), Ferndale, WA 98248
Product Description: Type "FRX" and "Thermex-FR" fire-retardant-treated lumber. Products are Douglas Fir, Southern Yellow Pine, Western Red Cedar, White Spruce and Western Hemlock pressure impregnated with "FRX" and "Thermex-FR " fire retardant chemical.

◇Company Name: CHEMCO INC.
4191 Grandview Road (P.O. Box 875), Ferndale, WA 98248
Product Description: Type "FRX" and "Thermex-FR" fire-retardant-treated plywood. The plywood is Structural I grade, exterior plywood complying with PS1. Products are pressure impregnated with "FRX" and "Thermex-FR " fire retardant chemical.

◇Company Name: HOOVER TREATED WOOD PRODUCTS, INC.
154 Wire Road, Thomson, GA 30824
Product Description: "EXTERIOR FIRE X" pressured impregnated treated lumbers (Douglas Fir, Southern Yellow Pine, Western Red Cedar, Redwood). (CSFM Listing No. 2520-1701:100)

◇Company Name: HOOVER TREATED WOOD PRODUCTS, INC.
154 Wire Road, Thomson, GA 30824
Product Description: "EXTERIOR FIRE X" pressured impregnated treated plywood (Douglas Fir, Micro-Lam Douglas Fir, Southern Yellow Pine, Gang-Lam Southern Yellow Pine, Micro-Lam Southern Yellow Pine, Spruce Master Plank). (CSFM Listing No. 2580-1701:101)

❖Company Name: TIMBERSIL PRODUCTS
5415 Backlick Road, Suite C, Springfield, VA 22151
Product Description: “TimberSIL® Glass Wood” lumber. Product is Southern Yellow Pine lumber covered with layers of non-toxic, non-crystallized glass barriers.

Wood Roof Shake and Shingles

❖Company Name: FSR TREATMENT INC.,
9486-288 St., Maple Ridge, BC V2W 1L1 Canada
Product Description: Model FTX and Thermex and FSR pressure treated, No. 1 Grade Western Red Cedar shakes or shingles. Shakes and shingles, having a maximum moisture content of 20%, are pressured treated by FSR Treatment, Inc. with FSR Treatment, Inc's proprietary fire retardant chemical. (CSFM Listing No. 4150-1735:0101)

❖Company Name: FSR TREATMENT INC.,
9486-288 St., Maple Ridge, BC V2W 1L1 Canada
Product Description: Model FSR pressure treated, No. 1 Grade Western Red Cedar shakes or shingles. Shakes and shingles, having a maximum moisture content of 20%, are pressured treated by FSR Treatment, Inc. with White Mountain Building products’ proprietary fire retardant chemical. (CSFM Listing No. 4150-1735:0100)

CHAPTER 7A [SFM]

MATERIALS AND CONSTRUCTION METHODS FOR EXTERIOR WILDFIRE EXPOSURE

SECTION 701A
SCOPE, PURPOSE AND APPLICATION

701A.1 Scope. *This chapter applies to building materials, systems and/or assemblies used in the exterior design and construction of new buildings located within a Wildland-Urban Interface Fire Area as defined in Section 702A.*

701A.2 Purpose. *The purpose of this chapter is to establish minimum standards for the protection of life and property by increasing the ability of a building located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area to resist the intrusion of flames or burning embers projected by a vegetation fire and contributes to a systematic reduction in conflagration losses.*

701A.3 Application. *New buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area designated by the enforcing agency for which an application for a building permit is submitted on or after December 1, 2005, shall comply with the following sections:*

1. ***704A.1—Roofing***
2. ***704A.2—Attic Ventilation***

701A.3.1 Alternates for materials, design, tests, and methods of construction. *The enforcing agency is permitted to modify the provisions of this chapter for site-specific conditions in accordance with Appendix Chapter 1, Section 104.10. When required by the enforcing agency for the purposes of granting modifications, a fire protection plan shall be submitted in accordance with the California Fire Code, Chapter 47.*

701A.3.2 New buildings located in any fire hazard severity zone. *New buildings located in any Fire Hazard Severity Zone shall comply with one of the following:*

1. ***State Responsibility Areas.*** *New building located in any Fire Hazard Severity Zone within State Responsibility Areas, for which an application for a building permit is submitted on or after January 1, 2008, shall comply with all sections of this chapter.*
2. ***Local Agency Very-High Fire Hazard Severity Zone.*** *New buildings located in any Local Agency Very-High Fire Hazard Severity Zone for which an application for a building permit is submitted on or after July 1, 2008, shall comply with all sections of this chapter.*
3. ***Wildland-Urban Interface Fire Area designated by the enforcing agency.*** *New buildings located in any Wildlan d-Urban Interface Fire Area designated by the enforcing agency for which an application for a building permit is submitted on or after January 1, 2008, shall comply with all sections of this chapter.*

701A.3.2.1 Inspection and certification. *Building permit applications and final completion approvals for buildings within the scope and application of this chapter shall comply with the following:*

701A.3.2.2 *The local building official shall, prior to construction, provide the owner or applicant a certification that the building as proposed to be built complies with all applicable state and local building standards, including those for materials and construction methods for wildfire exposure as described in this chapter.*

701A.3.2.3 *The local building official shall, upon completion of construction, provide the owner or applicant with a copy of the final inspection report that demonstrates the building was constructed in compliance with all applicable state and local building standards, including those for materials and construction methods for wildlife exposure as described in this chapter.*

701A.3.2.4 *Prior to building permit final approval the property shall be in compliance with the vegetation clearance requirements prescribed in California Public Resources Code 4291 California Government Code Section 51182.*

SECTION 702A
DEFINITIONS

For the purposes of this chapter, certain terms are defined below:

CDF DIRECTOR *means the Director of the California Department of Forestry and Fire Protection.*

FIRE PROTECTION PLAN *is a document prepared for a specific project or development proposed for a Wildland Urban Interface Fire Area. It describes ways to minimize and mitigate potential for loss from wildfire exposure.*

The Fire Protection Plan shall be in accordance with this chapter and the California Fire Code, Chapter 47. When required by the enforcing agency for the purposes of granting modifications, a fire protection plan shall be submitted. Only locally adopted ordinances that have been filed with the California Building Standards Commission or the Department of Housing and Community Development in accordance with Section 101.8 shall apply.

FIRE HAZARD SEVERITY ZONES *are geographical areas designated pursuant to California Public Resources Codes Sections 4201 through 4204 and classified as Very High, High, or Moderate in State Responsibility Areas or as Local Agency Very High Fire Hazard Severity Zones designated pursuant to California Government Code, Sections 51175 through 51189. See California Fire Code Article 86.*

The California Code of Regulations, Title 14, Section 1280, entitles the maps of these geographical areas as "Maps of the Fire Hazard Severity Zones in the State Responsibility Area of California."

***IGNITION-RESISTANT MATERIAL** is any product which, when tested in accordance with ASTM E 84 for a period of 30 minutes, shall have a flame spread of not over 25 and show no evidence of progressive combustion. In addition, the flame front shall not progress more than 10½ feet (3200 mm) beyond the centerline of the burner at any time during the test.*

Materials shall pass the accelerated weathering test and be identified as exterior type, in accordance with ASTM D 2898 and ASTM D 3201. All materials shall bear identification showing the fire performance rating thereof. That identification shall be issued by ICC-ES or a testing facility recognized by the State Fire Marshal having a service for inspection of materials at the factory.

Fire-Retardant-Treated Wood or noncombustible materials as defined in Section 202 shall satisfy the intent of this section.

The enforcing agency may use other definitions of ignition-resistant material that reflect wildfire exposure to building materials and/or their materials, performance in resisting ignition.

***LOCAL AGENCY VERY HIGH FIRE HAZARD SEVERITY ZONE** means an area designated by a local agency upon the recommendation of the CDF Director pursuant to Government Code Sections 51177(c), 51178 and 5118 that is not a state responsibility area and where a local agency, city, county, city and county, or district is responsible for fire protection.*

***STATE RESPONSIBILITY AREA** means lands that are classified by the Board of Forestry pursuant to Public Resources Code Section 4125 where the financial responsibility of preventing and suppressing forest fires is primarily the responsibility of the state.*

***WILDFIRE** is any uncontrolled fire spreading through vegetative fuels that threatens to destroy life, property, or resources as defined in Public Resources Code Sections 4103 and 4104.*

***WILDFIRE EXPOSURE** is one or a combination of radiant heat, convective heat, direct flame contact and burning embers being projected by vegetation fire to a structure and its immediate environment.*

***WILDLAND-URBAN INTERFACE FIRE AREA** is a geographical area identified by the state as a "Fire Hazard Severity Zone" in accordance with the Public Resources Code Sections 4201 through 4204 and Government Code Sections 51175 through 51189, or other areas designated by the enforcing agency to be at a significant risk from wildfires.*

SECTION 703A
STANDARDS OF QUALITY

***703A.1 General.** Material, systems, and methods of construction used shall be in accordance with this Chapter.*

***703A.2 Qualification by testing.** Material and material assemblies tested in accordance with the requirements of Section 703A shall be accepted for use when the results and conditions of those tests are met. Testing shall be performed by a testing agency approved by the State Fire Marshal or identified by an ICC-ES report.*

***703A.3 Standards of quality.** The State Fire Marshal standards listed below and as referenced in this chapter are located in the California Referenced Standards Code, Part 12 and Chapter 35 of this code.*

***SFM 12-7A-1,** Exterior Wall Siding and Sheathing.*

***SFM 12-7A-2,** Exterior Window.*

***SFM 12-7A-3,** Under Eave.*

***SFM 12-7A-4,** Decking.*

SECTION 704A
MATERIALS, SYSTEMS AND METHODS OF CONSTRUCTION

704A.1 Roofing.

***704A.1.1 General.** Roofs shall comply with the requirements of Chapter 7A and Chapter 15. Roofs shall have a roofing assembly installed in accordance with its listing and the manufacturer's installation instructions.*

***704A.1.2 Roof coverings.** Where the roof profile allows a space between the roof covering and roof decking, the spaces shall be constructed to prevent the intrusion of flames and embers, be firestopped with approved materials or have one layer of 72 pound (32.4 kg) mineral-surfaced nonperforated cap sheet complying with ASTM D3909 installed over the combustible decking.*

***704A.1.3 Roof valleys.** When provided, valley flashings shall be not less than 0.019-inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal installed over a minimum 36-inch-wide (914 mm) underlayment consisting of one layer of 72 pound (32.4 kg) mineral-surfaced nonperforated cap sheet complying with ASTM D3909 running the full length of the valley.*

***704A.1.4** Reserved.*

***704A.1.5 Roof gutters.** Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter.*

704A.2 Attic ventilation.

***704A.2.1 General.** When required by Chapter 15, roof and attic vents shall resist the intrusion of flame and embers into the attic area of the structure, or shall be protected by corrosion-resistant, noncombustible wire mesh with openings a minimum of $^1/_8$-inch (3.2 mm) and shall not exceed $^1/_4$-inch (6 mm) or its equivalent.*

***704A.2.2 Eave or cornice vents.** Vents shall not be installed in eaves and cornices.*

***Exception:** Eave and cornice vents may be used provided they resist the intrusion of flame and burning embers into the attic area of the structure.*

***704A.2.3 Eave protection.** Eaves and soffits shall meet the requirements of SFM 12-7A-3 or shall be protected by ignition-resistant materials or noncombustible construction on the exposed underside.*

SECTION 06 60 00
PLASTIC FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Cellular pvc trim boards for corner boards, soffits, fascias, battens, door pilasters, frieze boards, rake boards, architectural millwork and door/window trim.

1.02 RELATED SECTIONS

A. Section 06 64 00 - Plastic Paneling.

B. Section 06 65 00 - Plastic Simulated Wood Trim.

C. Section 06 66 00 - Custom Ornamental Simulated Woodwork.

1.03 REFERENCES

A. ASTM D792 - Density and Specific Gravity of Plastics by Displacement.

B. ASTM D570 - Water Absorption of Plastics.

C. ASTM D638 - Tensile Properties of Plastics.

D. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

E. ASTM D1761 - Mechanical Fasteners in Wood.

F. ASTM D5420 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by means of a Striker Impacted by a Falling Weight.

G. ASTM D256 - Determining the Pendulum Impact Resistance of Plastics.

H. ASTM D696 - Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous silica Dilatometer.

I. ASTM D635 - Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

J. ASTM E84 - Surface Burning Characteristics of Building Materials.

K. ASTM D648 - Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.

L. ASTM D3679 - Standard Specification for Rigid Poly Vinyl Chloride (PVC) Siding.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit product data, manufacturer's catalogs, SPEC-DATA® product sheet, for specified products.

1.04 SUBMITTALS (continued)

C. Samples: Submit three material samples representative of the texture, thickness and widths shown and specified herein.

1.05 QUALITY ASSURANCE

A. Regulatory Requirements: Check with Local Building Code for installation requirements.

B. Allowable Tolerances:

1. Variation in component length: -0.00 / +1.00"
2. Variation in component width: ± 1/16"
3. Variation in component thickness: ± 1/16"
4. Variation in component edge cut: ± 2°
5. Variation in Density -0% + 10%

C. Workmanship, Finish, and Appearance:

1. Free foam cellular pvc that is homogeneous and free of voids, holes, cracks, and foreign inclu sions and other defects. Edges must be square, and top and bottom surfaces shall be flat with no convex or concave deviation.

2. Uniform surface free from cupping, warping, and twisting.

1.06 DELIVERY, STORAGE AND HANDLING

A. Trim materials should be stored on a flat and level surface on a full shipping pallet. Handle materials to prevent damage to product edges and corners. Store materials under a protective covering to prevent jobsite dirt and residue from collecting on the boards.

1.07 WARRANTY

A. Provide manufacturer's 25 year warranty against defects in manufacturing that cause the products to rot, corrode, delaminate, or excessively swell from moisture.

PART II PRODUCTS

2.01 MATERIALS

A. Acceptable products: AZEK® Trimboards manufactured by Vycom Corporation, 801 Corey Street, Moosic, PA 18507.

B. Material: Free foam cellular pvc material with a small-cell microstructure and density of .55 grams/cm^3.

1. Material shall have a minimum physical and performance properties specified in Section C on the following page.

C. Performance and physical characteristic requirements:

PROPERTY	UNITS	VALUE	ASTM METHOD
PHYSICAL			
Density	g/cm^3	0.55	D 792
Water Absorption	%	0.15	D 570
MECHANICAL			
Tensile Strength	psi	2256	D 638
Tensile Modulus	psi	144,000	D 638
Flexural Strength	psi	3329	D 790
Flexural Modulus	psi	144,219	D 790
Nail Hold	Lbf/in of penetration	35	D 1761
Screw Hold	Lbf/in of penetration	680	D 1761
Staple Hold	Lbf/in of penetration	180	D 1761
Gardner Impact	in-lbs	103	D 5420
Charpy Impact (@23°C)	ft-lbs	4.5	D 256
THERMAL			
Coefficient of Linear Expansion	in/in/°F	3.2 x 10-5	D 696
Burning Rate	in/min	No burn when flame removed	D 635
Flame Spread Index	--	25	E 84
Heat Deflection Temp 264 psi	°F	150	D 648
Oil Canning (@140°F)	°F	Passed	D 648

2.02 ACCESSORY PRODUCTS

A. Fasteners:

- Use fasteners designed for wood trim and wood siding (thinner shank, blunt point, full round head) with AZEK®.
- Use a highly durable fastener such as stainless steel or hot-dipped galvanized.
- Staples, small brads and wire nails must not be used as fastening members.
- The fasteners should be long enough to penetrate the solid wood substrate a minimum of 1 1/2".
- Standard nail guns work well with AZEK trim products.
- Use 2 fasteners per every framing member for trimboards applications. Trimboards 12" or wider, as well as sheets, will require additional fasteners.
- Fasteners must be installed no more than 2" from the end of each board.
- AZEK should be fastened into a flat, solid substrate. Fastening AZEK into hollow or uneven areas must be avoided.
- Pre-drilling is typically not required unless a large fastener is used or product is installed in low temperatures.
- 3/8" and 1/2" sheet product is not intended to be ripped into trim pieces. These profiles must be glued to a substrate and mechanically fastened.

B. Adhesives:

- Glue all AZEK to AZEK joints such as window surrounds, long fascia runs, etc. with AZEK Adhesive, a cellular pvc cement, to prevent joint separation.
- The glue joint should be secured with a fastener and/or fastened on each side of the joint to allow adequate bonding time.
- AZEK Adhesive has a working time of 10 minutes and will be fully cured in 24 hours.
- If standard pvc cements are used, keep in mind these products typically cure quickly which will result in limited working time and may reduce adhesive strength.
- Surfaces to be glued should be smooth, clean and in complete contact with each other.
- To bond AZEK to other substrates, various adhesives may be used. Consult adhesive manufacturer to determine suitability.

C. Sealants:

- Use urethane, polyurethane or acrylic based sealants without silicone.

2.03 FINISHES

A. AZEK products do not require paint for protection, but may be painted to achieve a custom color.

B. Preparation:

- No special surface preparations are required prior to painting - sanding is not necessary for paint adhesion.
- Surface must be clean and dry.
- If desired, nail holes may be filled with polyurethane or acrylic based caulk.
- Use a 100% acrylic latex paint with a Light Reflective Value (LRV) of 55 or higher.
- Follow the paint manufacturer's recommendations to apply.

PART III EXECUTION

3.01 INSTALLATION

A. Manufacturers instructions:

- Comply with manufacturer's product catalog installation instructions and product technical bulletin instructions.

B. Cutting:

- AZEK products can be cut using the same tools used to cut lumber.
- Carbide tipped blades designed to cut wood work well. Avoid fine tooth metal cutting blades.
- Rough edges from cutting may be caused by excessive friction, poor board support, or worn or improper tooling.

C. Drilling

- AZEK products can be drilled using the same tools used to drill lumber.
- Drilling AZEK products is similar to drilling a hardwood. Care should be taken to avoid frictional heat buildup.
- Use standard woodworking drills. Do not use drills made for normal rigid pvc.
- Periodic removal of AZEK shavings from the drill hole may be necessary.

D. Milling

- AZEK products can be milled using standard milling machines used to mill lumber.
- Relief Angle 20° to 30°
- Cutting speed to be optimized with the number of knives and feed rate.

E. Routing

- AZEK products can be routed using standard router bits and the same tools used to rout lumber.
- Carbide tipped router bits are recommended.

F. Edge Finishing

- Edges can be finished by sanding, grinding or filing with traditional woodworking tools.

G. Nail Location

- Use 2 fasteners per every framing member for trimboard applications.
- Trimboards over 12" or wider, as well as sheets, will require additional fasteners.
- Fasteners must be installed no more than 2" from the end of each board.

H. Thermal Expansion and Contraction

- AZEK products expand and contract with changes in temperature.
- Properly fastening AZEK material along its entire length will minimize expansion and contraction.
- When properly fastened, allow for 1/8" per 18 foot of AZEK product for expansion and contraction.
- Joints between pieces of AZEK should be glued to eliminate joint separation. When gaps are glued on a long run of AZEK, allow expansion and contraction at ends of the run.

END OF SECTION

704A.3 Exterior walls.

704A.3.1 General. *Exterior walls shall be approved noncombustible or ignition-resistant material, heavy timber, or log wall construction or shall provide protection from the intrusion of flames and embers in accordance with standard SFM 12-7A-1.*

704A.3.1.1 Exterior wall coverings. *Exterior wall coverings shall extend from the top of the foundation to the roof, and terminate at 2-inch (50.8 mm) nominal solid wood blocking between rafters at all roof overhangs, or in the case of enclosed eaves, terminate at the enclosure.*

704A.3.2 Exterior wall openings. *Exterior wall openings shall be in accordance with this section.*

704A.3.2.1 Exterior wall vents. *Unless otherwise prohibited by other provisions of this code, vent openings in exterior walls shall resist the intrusion of flame and embers into the structure or vents shall be screened with a corrosion-resistant, noncombustible wire mesh with $^1/_4$- inch (6 mm) openings or its equivalent.*

704A.3.2.2 Exterior glazing and window walls. *Exterior windows, window walls, glazed doors, and glazed openings within exterior doors shall be insulating-glass units with a minimum of one tempered pane, or glass block units, or have a fire-resistance rating of not less than 20 minutes, when tested according to NFPA 257, or in accordance with Section 715, or conform to the performance requirements of SFM 12-7A-2.*

704A.3.2.3 Exterior door assemblies. *Exterior door assemblies shall conform to the performance requirements of standard SFM 12-7A-1 or shall be of approved noncombustible construction, or solid core wood having stiles and rails not less than $1^3/_8$ inches thick with interior field panel thickness no less than $1^1/_4$ inches thick, or shall have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 252, or in accordance with Section 715.*

Exception: *Noncombustible or exterior fire-retardant treated wood vehicle access doors are not required to comply with this chapter.*

704A.4 Decking, floors and underfloor protection.

704A.4.1 Decking.

704A.4.1.1 Decking surfaces. *Decking, surfaces, stair treads, risers, and landings of decks, porches, and balconies where any portion of such surface is within 10 feet (3048 mm) of the primary structure shall comply with one of the following methods:*

1. *Shall be constructed of ignition-resistant materials and pass the performance requirements of SFM 12-7A-4, Parts A and B.*
2. *Shall be constructed with heavy timber, exterior fire-retardant-treated wood or approved noncombustible materials.*
3. *Shall pass the performance requirements of SFM 12-7A-4, Part A, 12-7A-4.7.5.1 only with a net peak heat release rate of 25kW/sq-ft for a 40-minute observation period and:*
   a. *Decking surface material shall pass the accelerated weathering test and be identified as exterior type, in accordance with ASTM D 2898 and ASTM D 3201 and;*
   b. *The exterior wall covering to which it the deck is attached and within 10 (3048 mm) feet of the deck shall be constructed of approved noncombustible or ignition resistant material.*

   Exception: *Walls are not required to comply with this subsection if the decking surface material conforms to ASTM E-84 Class B flame spread.*

The use of paints, coatings, stains, or other surface treatments are not an approved method of protection as required in this chapter.

704A.4.2 Underfloor and appendages protection.

704A.4.2.1 Underside of appendages and floor projections. *The underside of cantilevered and overhanging appendages and floor projections shall maintain the ignition-resistant integrity of exterior walls, or the projection shall be enclosed to the grade.*

704A.4.2.2 Unenclosed underfloor protection. *Buildings shall have all underfloor areas enclosed to the grade with exterior walls in accordance with Section 704A.3.*

Exception: *The complete enclosure of under floor areas may be omitted where the underside of all exposed floors, exposed structural columns, beams and supporting walls are protected as required with exterior ignition-resistant material construction or be heavy timber.*

704A.5 Ancillary buildings and structures.

704A.5.1 Ancillary buildings and structures. *When required by the enforcing agency, ancillary buildings and structures and detached accessory structures shall comply with the provisions of this chapter.*