

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING INSPECTION
PERMIT

PERMIT ISSUED

Permit Number: 070670

JUN 12 2007

CITY OF PORTLAND

This is to certify that GENDRON MICHAEL S & MARIEL GENDRON JTS/Trust forthhas permission to Finish existing BasementAT 125 BEVERLY ST 333 K003001

provided that the person or persons who obtain or accept this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission is procured before this building or part thereof is altered or service is closed-in. 4 HOUR NOTICE REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____
Department Name

6/12/07 *Chp. PM*
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

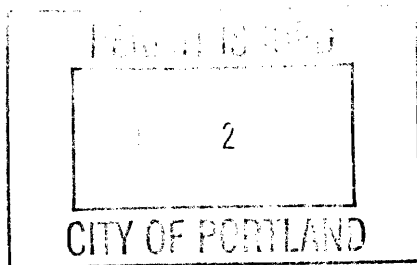
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 07-0670	Issue Date: 6/12/07	CBL: 333 K003001
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Location of Construction: 125 BEVERLY ST	Owner Name: GENDRON MICHAEL S & TORIE	Owner Address: 125 BEVERLY ST	Phone:
Business Name:	Contractor Name: TrueNorth Home System	Contractor Address: 91 Industrial Park Rd Saco	Phone: 2079852300
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Dwellings	Zone: R-2

Past Use: Single Family	Proposed Use: Single Family /Finish Basement	Permit Fee: \$270.00	Cost of Work: \$25,000.00	CEO District: 5
Proposed Project Description: Finish existing Basement		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R-3 Type: 5B IRC-2003 Signature: 6/12/07 CLM	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: Date:		

Permit Taken By: csh	Date Applied For: 06/08/2007	Zoning Approval		
<ol style="list-style-type: none">This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.Building permits do not include plumbing, septic or electrical work.Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..		Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 6/12/07 CLM	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input type="checkbox"/> Not in District or Landmark <input checked="" type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

7/10/07

Close-in Insp.

O.K.

CH.

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SIGNATURE OF APPLICANT

ADDRESS

DATE

PHONE

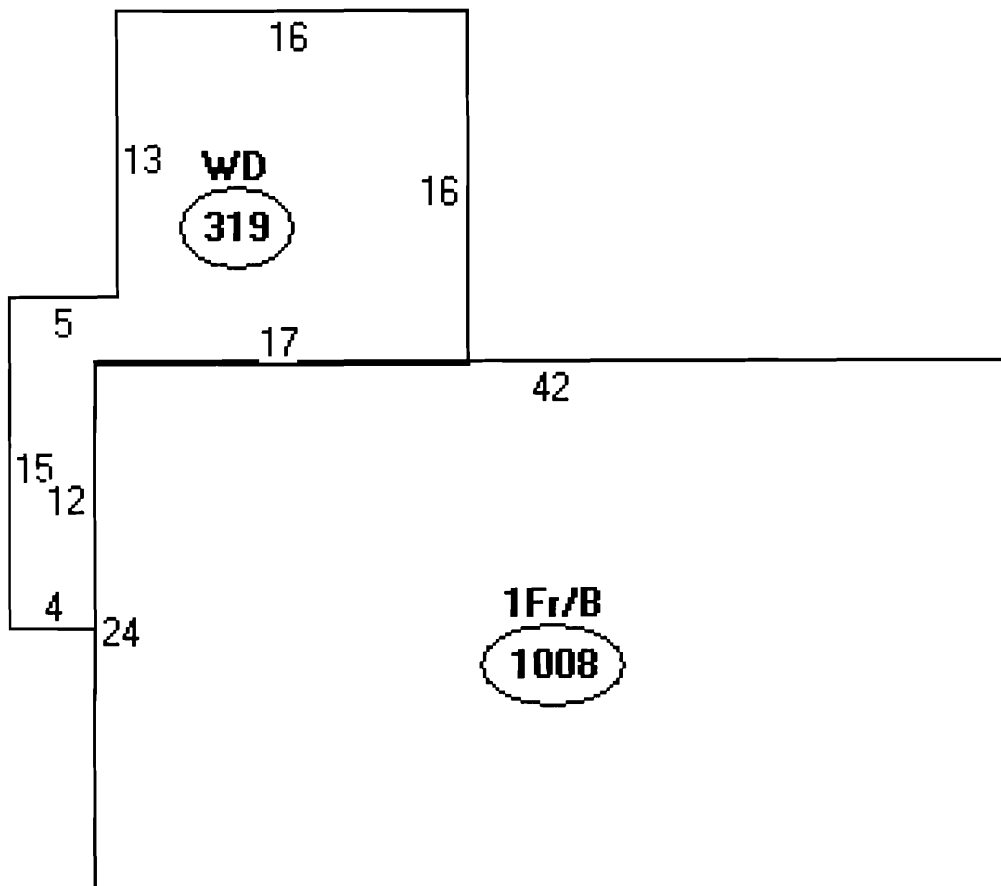
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

DATE

PHONE







Descriptor/Area

A: 1Fr/B
1008 sqft

B: WD
319 sqft



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 125 BEVERLY STREET		
Total Square Footage of Proposed Structure 437 sq ft		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: Michael + Torie Gordon	Telephone: 797-9454
Lessee/Buyer's Name (If Applicable) N/A	Applicant name, address & telephone: TrueNorth Home Systems 91 Industrial Park Road Saco ME 04072 (985-2300 x211)	Cost Of Work: \$ 25,000 Fee: \$ _____ C of O Fee: \$ _____
Current Specific use: single-family residence If vacant, what was the previous use? N/A Proposed Specific use: single-family residence		
Project description: 437 sq. ft. finished basement system		
Contractor's name, address & telephone: TrueNorth Home Systems 91 Industrial Park Rd Saco ME 04072 985-2300 x211 Who should we contact when the permit is ready: ERIN VAFIADES Mailing address: _____ Phone: 985-2300 x211		

30
240
270

Please submit all of the information outlined in the Commercial Application Checklist.
Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Erin N. Vafiades	Date: 06/08/07
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This is not a permit; you may not commence ANY work until the permit is issued.



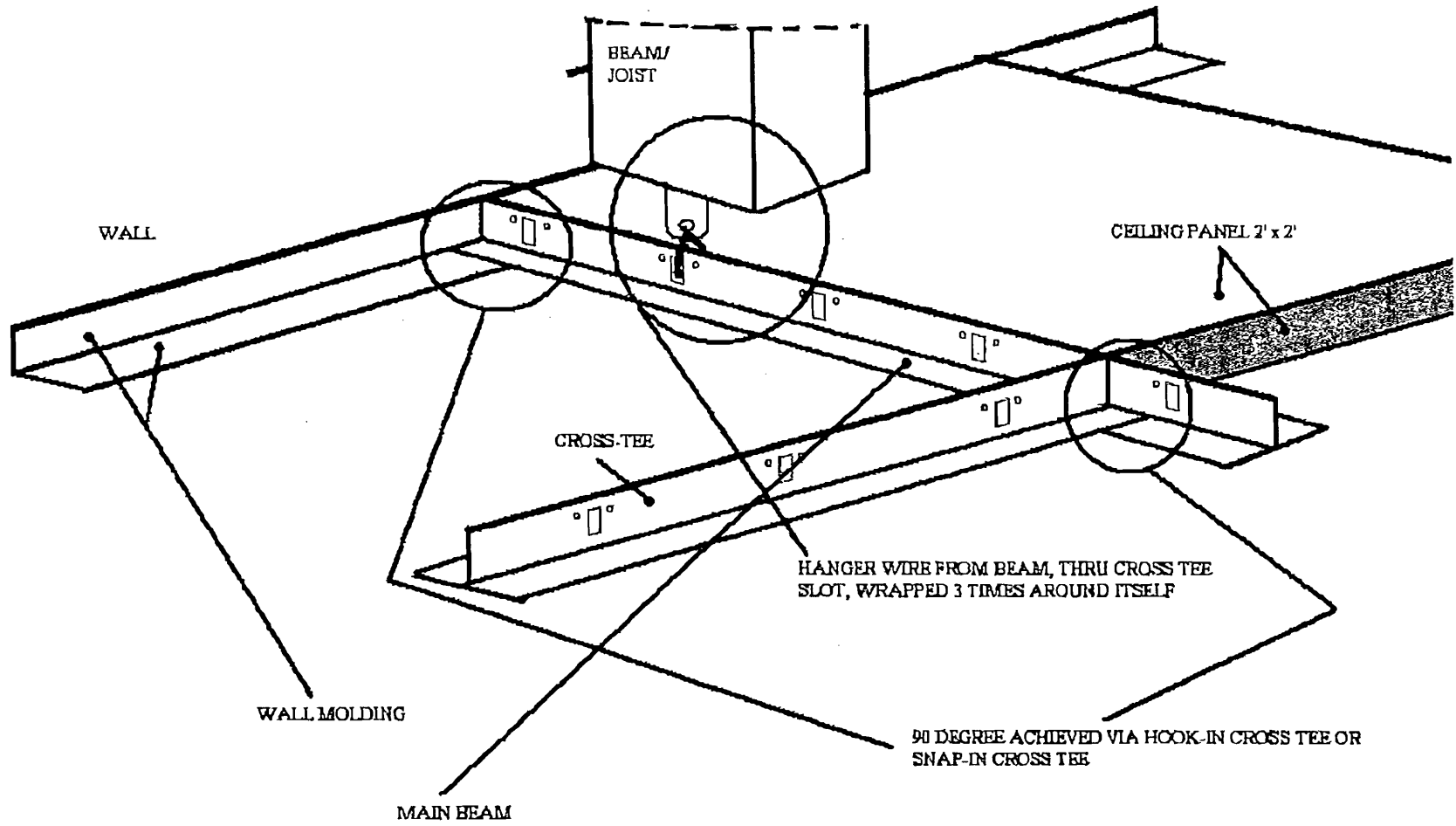
91 Industrial Park Rd.
Saco, ME 04072
207-985-2300 x211
207-286-8039 fax

Fax

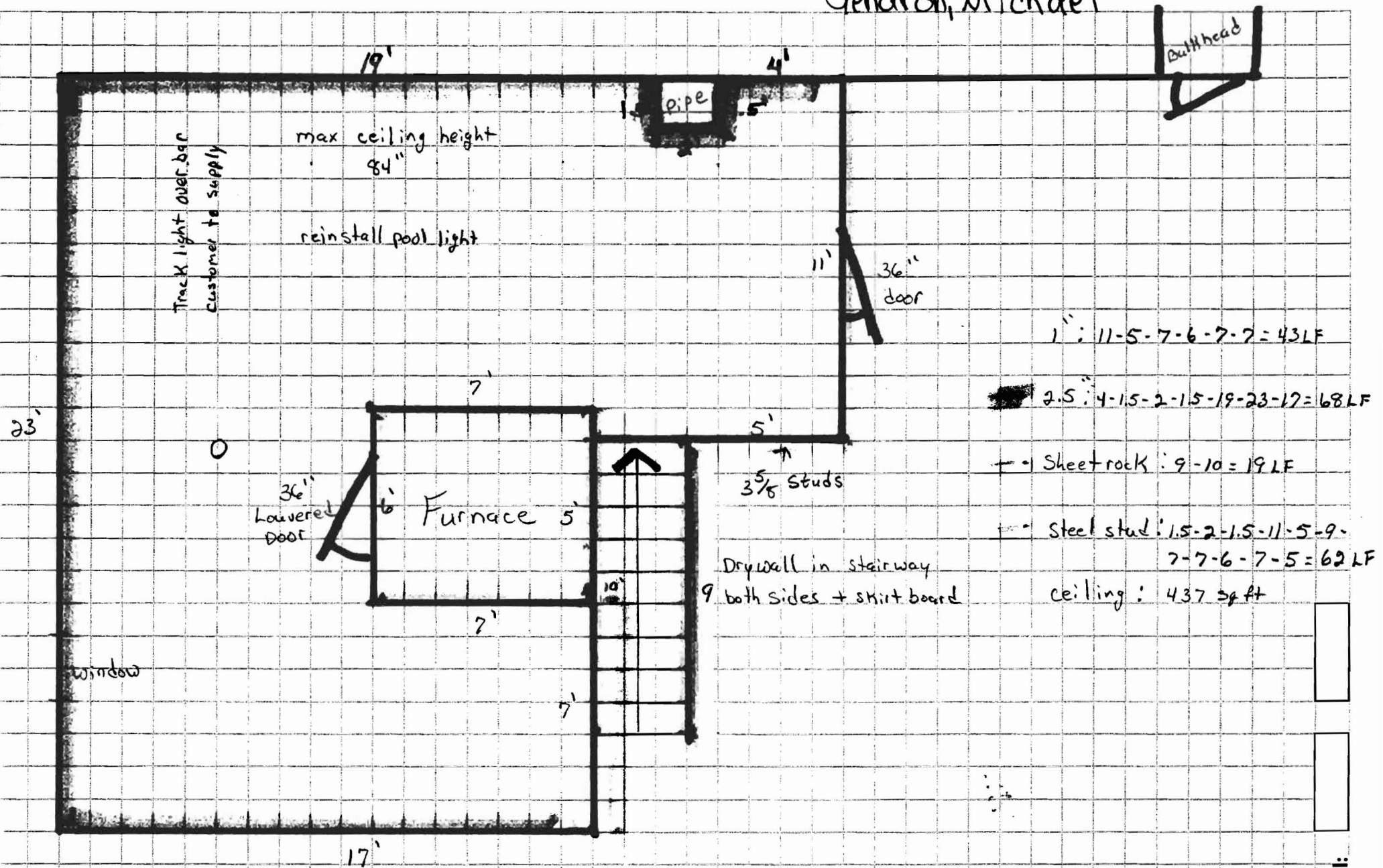
To: City of Portland	From: Erin Hafiades
Att: Chris Hanson, CEO	Pages: 2
Fax: 874-8949	Date: 6/08/07
PO #	Job Name: 125 Beverly St - Gendron, Michael

Here's the diagram for the drop ceiling we use in the basement systems. It's a standard drop ceiling from Armstrong w/ 2'x2' panels. In rarer cases where a wall molding cannot be used, hanger wires support the mains from the joists/beams. Sorry for the quality of the sketch; they won't spring for AutoCAD + make me do everything on MSPaint. (We're real professional like that.)
Call w/ any questions - ERIN - 985-2300

16-gauge hanger wires
1 wire on every other joist



Gendron, Michael



Design Approval:



INNOVATIONS FOR LIVING™

BASEMENT FINISHING SYSTEM

SUBMITTAL SHEET

DESCRIPTION

The Owens Corning™ Basement Finishing System is comprised of lightweight fiber glass panels, PVC lineals (which replace conventional framing) and foamed PVC trim moldings (which replace trim lumber). The trim moldings snap into the lineals, holding the panels in place. Moldings and wall panels are easily removed to provide easy access to a home's foundation walls. Because traditional wood and paper-based building materials are replaced with fiber glass and PVC materials, the Basement Finishing System offers inherent resistance to moisture, mold and mildew.* The system is covered by a lifetime limited transferable warranty** from Owens Corning.

USES

The Owens Corning™ Basement Finishing System is an innovative system designed to insulate and finish basement walls. It insulates, acoustically treats and aesthetically finishes walls in a few simple steps. The system can be installed over both masonry foundation walls and interior partition walls built with either wood or metal members.

AVAILABILITY

94" x 48" x 2-1/2" Panels
Lineals

Trim Molding:

Cove Molding
Vertical Battens
Base Molding
Outside Corner
Casing
Jamb Extender
Chair Rail

Color Choices:

Panels: "Linen Mist" woven fabric
Trim: All trim available in White or Woodgrain. In addition, vertical trim available in fabric look finish or fabric wrapped to match panels.

CODE COMPLIANCE

2000 BOCA Evaluation #21-24
2004 ICC Report #NER-635

* While the materials and design of the Owens Corning™ Basement Finishing System resist mold and mildew, the System can not prevent or alleviate mold if the conditions necessary for mold growth otherwise exist in your basement.

**See actual warranty for details, limitations and restrictions.



PHYSICAL PROPERTIES

Property	Test Method	Value
For Fiber Glass Board:		
Water Vapor Sorption	ASTM C 1104	<2% by wt. @ 120NF, 95% RH
Compressive Strength @10% deformation @25% deformation	ASTM C 165	25 psf 90 psf
Thermal Resistance	ASTM C 518	R-11
Normal Density	ASTM C 303	3.2 PCF
For Finished Panel:		
Noise Reduction Coefficient	ASTM C 423 Type A Mount	0.95
Surface Burning Characteristics -Meets Class A Burn Rating	ASTM E 84+	Class A Flame Spread ≤ 25 Smoke Developed ≤ 450
Interior Textile Finish Fire Classification	NFPA-286	Meets Acceptance Criteria
Mold Resistance	ASTM C 1338 ASTM G 21	Pass Pass

+The surface-burning characteristics of the finished composite panel were determined in accordance with ASTM E 84. This standard measures and describes the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions. Data from ASTM E 84 testing cannot be used to describe or assess the fire hazard or fire risk of materials, products or assemblies when considering all of the factors pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

FEATURES AND BENEFITS

Feature	Benefit
Modular wall system	Installs in about 2 weeks
Snap-out moldings and panels	Complete interior foundation access
Resilient glass fiber construction	Will not dent like drywall
Moisture resistant materials	Resists mold and mildew growth
2 1/2" thick panels	Added R-11 insulation
Tackable surface	Hanging pictures or papers without leaving permanent holes with proper use of picture support plate
High Noise Reduction Coefficient (NRC)	Increased comfort, outstanding sound absorption
Wall panels indexed 1-3/4" off of floor	Helps to minimize flood damage potential
Removable base molding	Provides wire chase for speaker wires, TV cable, computer, and other low voltage cables
Lifetime limited transferable warranty**	Offers homeowner peace of mind
Dupont Teflon® fabric protector	Stain resistant
Certified installers	Individuals trained for quality installation
Ceiling design flexibility	Integrates easily with drop or drywall ceilings

Based on an average basement, with two certified installers.

**See actual warranty for details.



INNOVATIONS FOR LIVING™

OWENS CORNING WORLD HEADQUARTERS
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659

www.owenscorning.com
1-800-GET-PINK

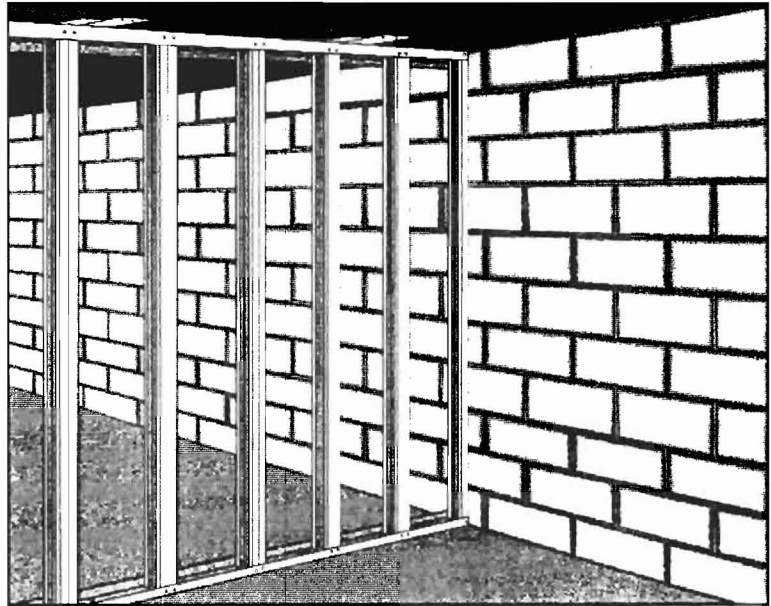
Pub. No. 5-BL-44071-D. Printed in U.S.A., September 2004.

The color PINK is a registered trademark of Owens Corning.
© 2004 Owens Corning

Overview

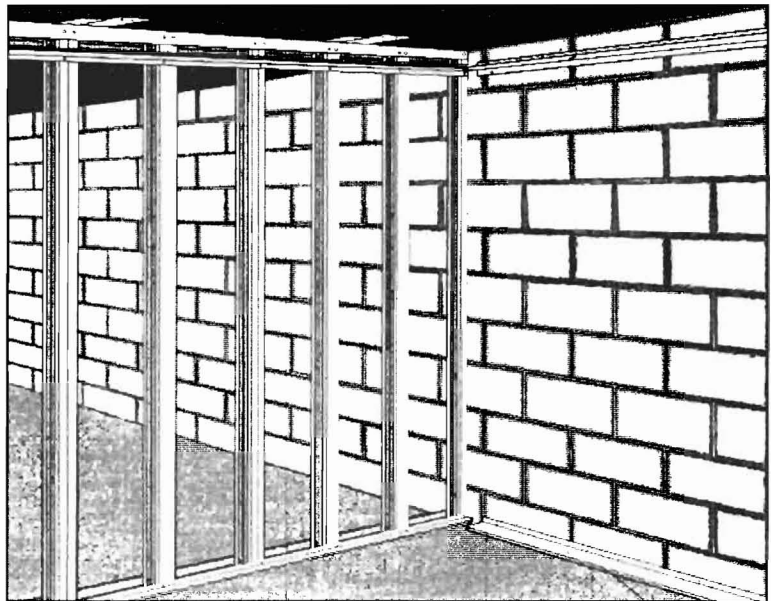
Steel Frame Walls

- Construct full height steel frame walls
- Studs are attached back to back
- Made with 25ga. 2-1/2" or 1-5/8" studs



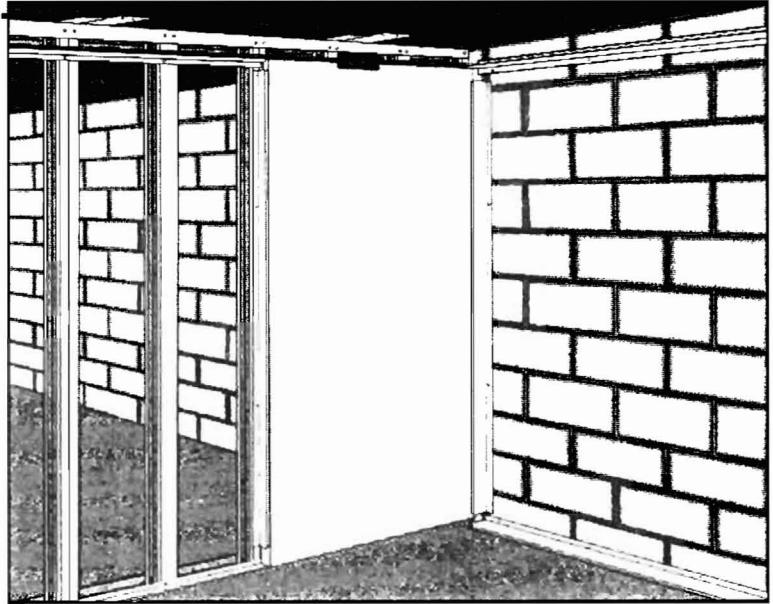
Ceiling & Floor Lineals

- Proprietary lineals are attached to the wall so the trim can be snapped into place which holds the panels.
- Ceiling lineals are used instead of the wall angle for the ceiling grid
- Floor lineals are installed so they follow the contour of the floor.



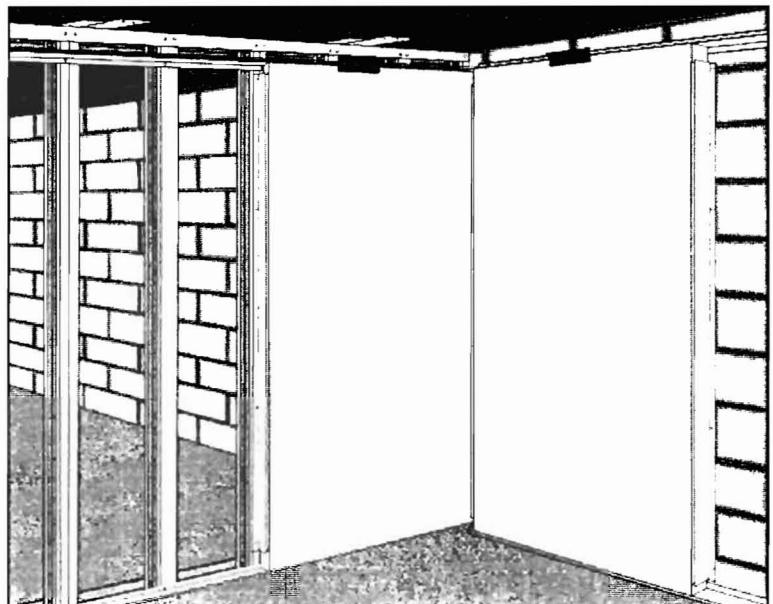
Corner Lineal & Panel

- Cut and set panel in place. Snap a small piece of cove trim into the ceiling lineal to hold the panel in place.
- Cut all vertical lineals to length so they fit between the floor and ceiling lineals, NOT overlapping. Slide the corner lineal up snug to the panel and check for plumb.
- Use the same procedure on the other side of the panel and fasten to stud.



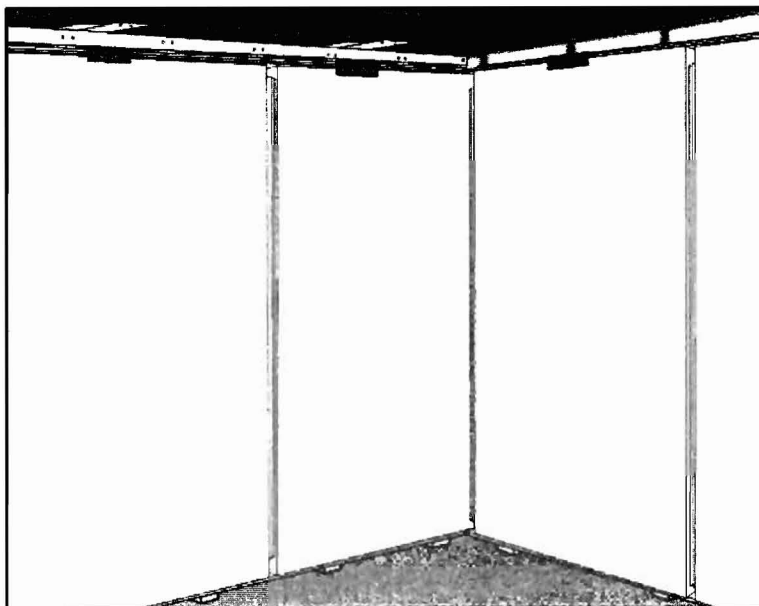
Second Corner Panel

- Cut and set next panel in place.
- Slide the vertical lineal up snug to the panel and fasten to wall.



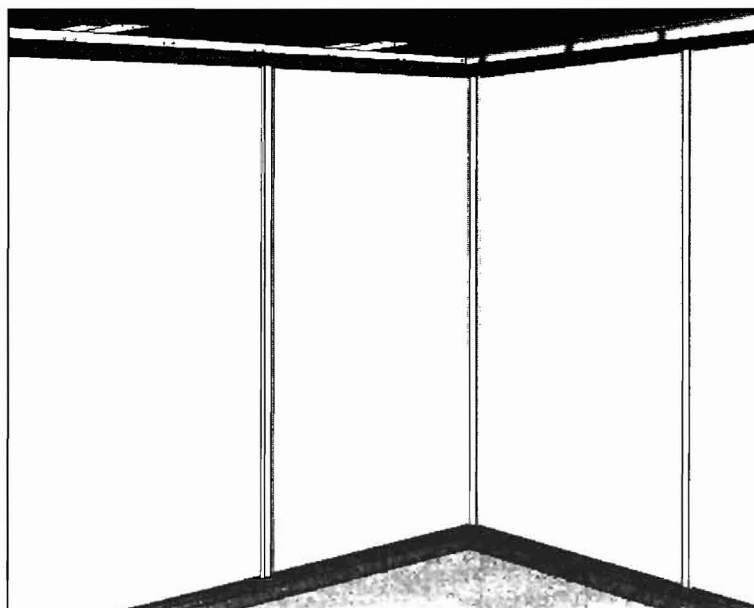
Vertical Lineals and Panels

- Install full width panels for the rest of the wall until you meet a door or corner.



Trim

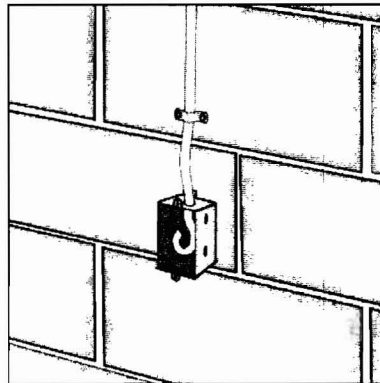
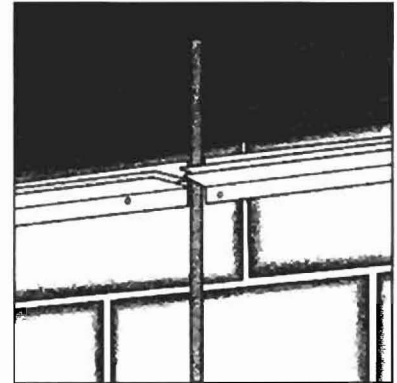
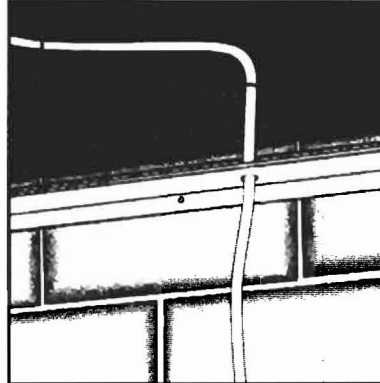
- Install horizontal base and cove trim first.
- Then install vertical corner and batten trim.



Electric Boxes

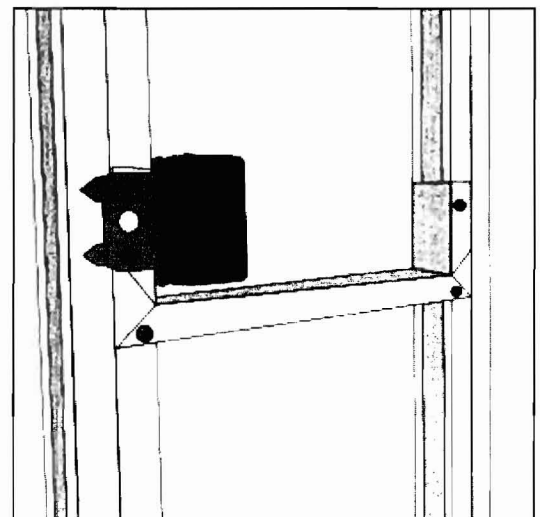
Attachment to Concrete Walls

- Use 2-1/2" deep boxes fastened directly to concrete wall with concrete screws.
- Attach wire or conduit to wall as required.



Attachment to Steel Frame Walls

- Fastened directly to the stud with a **brace as shown for support** between studs using sheet metal screws. This brace is important to keep the box from twisting. Pictured is a 3-1/4" deep "Adjust-A-Box" electric box by Carlon - Lamson & Sessions with 21.1 cu in volume. A single screw adjusts the box for the proper depth to the 1" interior panel.



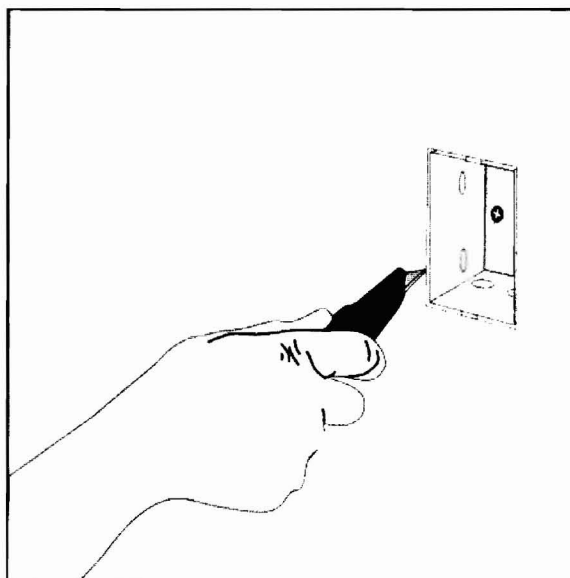
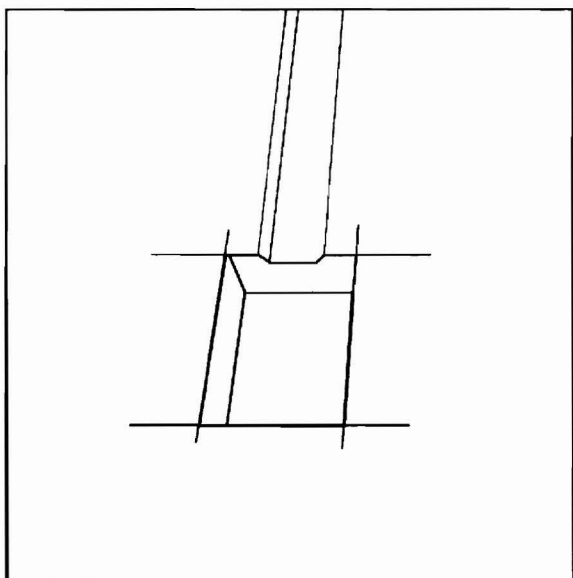
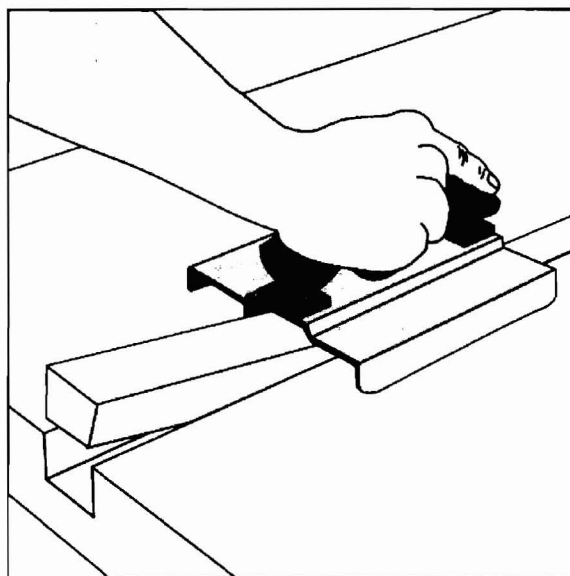
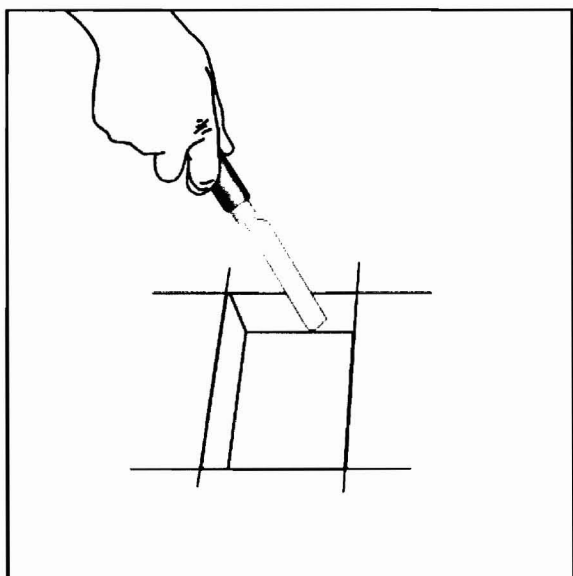
Cutting Panels for Electric Boxes

1" panels

- Mark location of box.
- Cut out box opening

2-1/2" panels

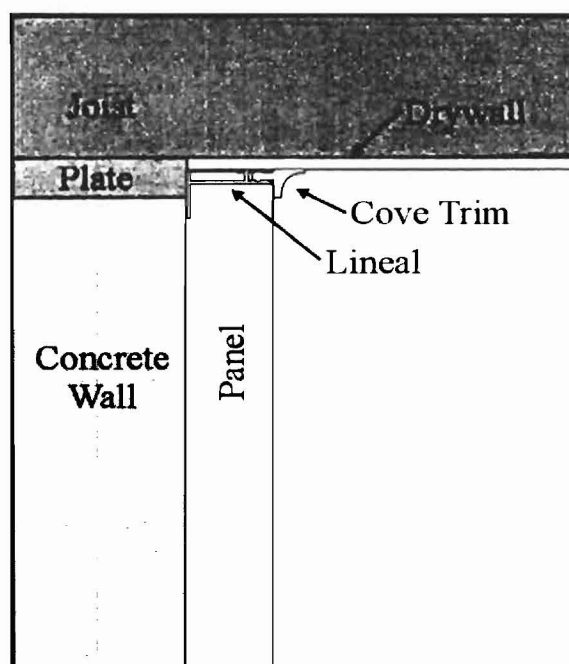
- Mark location of box by placing the panel onto the wall and applying pressure to the front of the board so that an indentation of where the box is located is imprinted.
- Cutting from the back side, cut through the fiberglass with the pointed edge of a green handle knife, but not the facing. Use the rounded corner of the knife to finish cutting the fiberglass down to the facing. Remove the fiberglass plug.
- If conduit is used, groove the back of the board for the conduit to rest in using the grooving tool. (romex wiring does not require this)
- Install panel onto wall and finish cut the facing around the box with a razor knife or scissors.



Ceiling

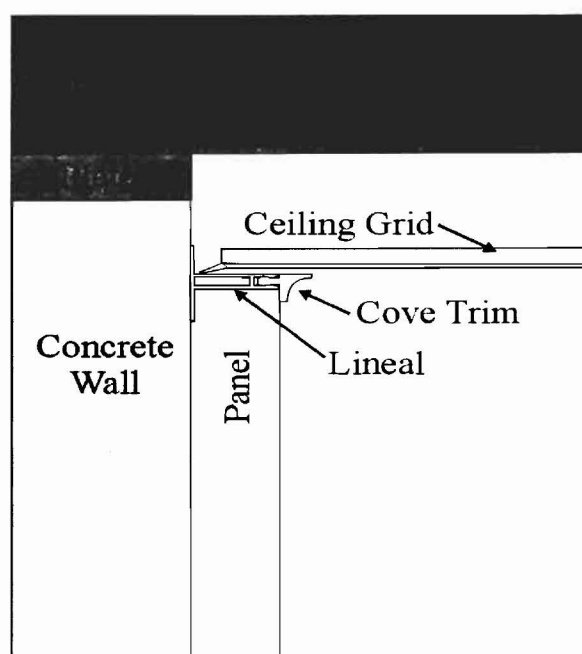
Installing to Existing Drywall Ceiling

- Remove one flange from a lineal (see page 16)
- Install it snug to the drywall ceiling. It may be fastened into the wall or ceiling joists.

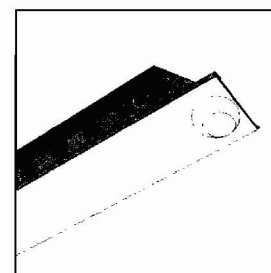
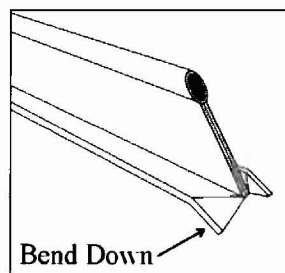


Drop Ceiling Installation

- Determine ceiling height, and mark wall 1-3/4" less.
- Snap a chalk line or use a laser to assure a level installation.
- Align the lineal to this line. Install two (2) fasteners every 24" to 30" along the ceiling lineal, one in each flange. If the fastener is within 3" of the top of the wall, use concrete screws to prevent damage to the concrete. This will be your wall angle for the ceiling grid.



Hint: When installing a Mohave tile ceiling, save yourself some time by raising the grid system slightly off of the ceiling lineal / wall angle so you do not have to cut a reveal edge around the perimeter of the room! Pictured here are two ways of raising the grid, using pliers to bend the corners down at 45 degree angles or by attaching a 3/16" thick cabinet door bumper.



Carpet Installation Guidelines

If carpet is *already* installed

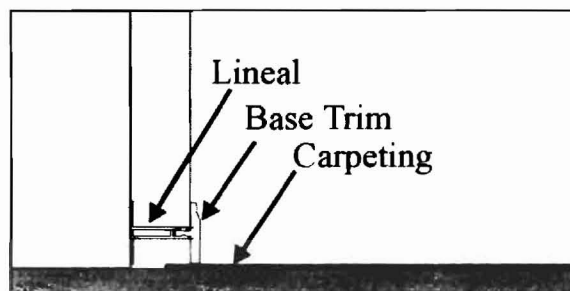
- To install floor lineals, snap short pieces of the base trim into the lineals to help locate the floor lineal onto the wall. This will help index the lineal the correct height off the floor.
- Visually check that the base trim lays flat on the carpet before attaching the lineal to the wall.

If carpet is *to be* installed

- If you know the type of flooring and its thickness, consider indexing the lineal and base trim off the floor so the flooring tucks under the base trim.
- If the carpet needs stretched, use a carpet re-stretcher, not a power stretcher.
- If the type of flooring cannot be determined before installation, attach the lineals tight to the floor.

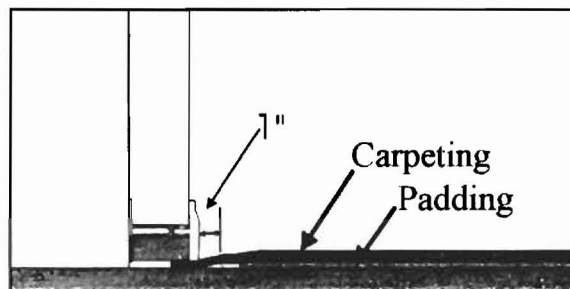
Glued carpet (or vinyl)

- Index off the floor the thickness of the flooring.



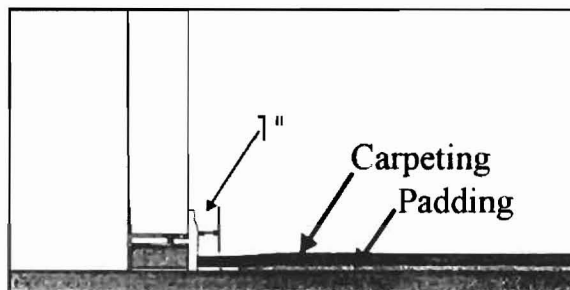
Lineals indexed off the floor

- Index off the floor depending on the thickness of the carpet (general rule of thumb is 1/2").
- Install tack strip 1" in front of the base trim.
- Tuck carpet under base trim as shown.
Note: Stiff carpets may require this.



Lineals tight to the floor

- Install lineal tight to the floor.
- Install tack strip 1" in front of the base trim.
- Butt carpet to base trim as shown.
Note: Works only with pliable carpets.





3894

070537

BASEMENT
FINISHING SYSTEM

Kennebunk Business Office:
71 Portland Road, Kennebunk, ME 04043
Tel: 800-564-5858 • Fax: 207-985-1691

Brewer Business Office:
P.O. Box 699, Brewer, Maine 04412
421 Wilson St., Brewer, ME 04412
Tel: 877-466-3087 Fax: 207-922-2809

CUSTOMER: <u>Michael + Torie Gordon</u>			DATE: <u>5/11/07</u>
STREET: <u>125 Beverly St.</u>			JOB NAME:
CITY: <u>Portland</u>	STATE: <u>ME</u>	ZIP: <u>04103</u>	STREET:
HOME PHONE: <u>(207) 777-9454</u>	WORK PHONE:	E-MAIL:	

Pursuant to the terms and conditions stated below, we hereby propose to furnish materials and labor necessary for the completion of:

Wall & Soffit113 Lnl Ft. Basement Finishing Wall

<input checked="" type="checkbox"/> Base Trim:	<input checked="" type="checkbox"/> White	Wood	Fabric-Look
<input checked="" type="checkbox"/> Crown Trim:	<input checked="" type="checkbox"/> White	Wood	Fabric-Look
<input checked="" type="checkbox"/> Outside Corner:	White	Wood	<input checked="" type="checkbox"/> Fabric-Look
<input checked="" type="checkbox"/> Vertical:	White	Wood	<input checked="" type="checkbox"/> Fabric-Look

Doors:

Size	Qty	Style/Type
<u>36"</u>	<u>1</u>	<u>6 panel mission style pine</u>
<u>36"</u>	<u>1</u>	<u>leisure pine door</u>

53 Lnl Ft. Galvanized Steel Studding
☒ Sq Ft. Finished Wall with Moisture Resistant Board
☒ Lnl Ft. Enclosed Beams/Overhead Pipes
Windows:

Qty: 1 Hopper
☒ Egress (above grade)
☒ Egress (below grade)

Ceiling:455 Sq Ft. Ceiling, Armstrong 2X2, Mohave White**Flooring:**

Style	Color	Sq Ft.
Style	Color	Sq Ft.
Style	Color	Sq Ft.

Electrical Included:
☒ Outlets/Switches to Code
☒ Recessed Lights/White with White trim: One (1) per 64 sq. ft.
☒ Remove and Reinstall Smoke Detector
Stair Options:

Lnl ft. ☒ Full Wall
☒ Half Wall
☒ Open Railing

Electrical Options (additional charge):

Qty: ☒ Dimmer Switches
☒ Additional Smoke Detectors
☒ Cable Jack(s) (for cable TV only)
☒ Phone Jack(s)
☒ Service Panel Cover White Wood

Misc (quantity):

☒ Octagon Pole Wraps
☒ Square Pole Wraps
☒ Picture Hanging Kits
☒ Trim Existing Windows
☒ Trim Existing Doors
☒ Other:

Existing Wall Removal (check one):

☒ Customer to Remove & Dispose
☒ TrueNorth™ Home Systems to Remove & Dispose

All measurements and quantities are approximate. Any applicable painting or staining is the customer's responsibility.

Comments: price includes all discounts & promotion

TERMS (CHECK ONE): CASH ☒ BALANCE ACQUIRED THROUGH TrueNorth™ Home Systems APPROVED FINANCING

Price includes labor, materials, taxes and clean up.

We hereby propose to furnish labor and materials - complete in accordance with the above specifications, for the:

Total Investment of _____
 Initial Deposit With Order _____
 Additional Deposit Due / / _____
 Balance Due Upon Completion _____

Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. Contractor is authorized to do work as specified. Payment will be made as outlined above.

Date Accepted 5/11/07

Customer Signature: [Signature]

Customer Signature: [Signature]

Authorized Representative Signature: [Signature]

Date 5/11/07

TERMS AND CONDITIONS ON REVERSE



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

*** Section 1 - Chemical Product and Company Identification ***

Product Name(s): Basement Wall Finishing System – Wall Panel

Manufacturer:

Owens Corning
One Owens Corning Parkway, World Headquarters
Attn. Product Stewardship
Toledo, OH 43659, USA

Emergency Contacts:

Emergencies ONLY (after 5pm ET and weekends): 1-419-248-5330,
CHEMTREC (24 hours everyday): 1-800-424-9300,
CANUTEC (Canada - 24 hours everyday): 1-613-996-6666.

Health and Technical Contacts:

Health Issues Information (8am-5pm ET): 1-419-248-8234,
Technical Product Information (8am-5pm ET): 1-800-GET-PINK.

*** Section 2 – Composition / Information on Ingredients ***

CAS #	Component	Percent by Wt.
65997-17-3	Fiber Glass Wool (Fibrous Glass)	75-90
25104-55-6	Urea, polymer with formaldehyde and phenol (Cured Binder)	3.5-15
various	Decorative Fabric (fabric)	10-15

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Fiber Glass wool, fibrous glass, insulation glasswool, glasswool (respirable size) and nuisance particulates.

Component Information/Information on Non-Hazardous Components

No additional information available.

*** Section 3 - Hazard Identification ***

Appearance and Odor: Fabric covered yellow or tan fibrous glass wall panel with faint resin odor.

Emergency Overview

Acrid smoke may be generated in a fire.

Potential Acute Health Effects

Inhalation:

Dusts and fibers from this product may cause mechanical irritation of the nose, throat, and respiratory tract.



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

Skin Contact:

Dusts and fibers from this product may cause temporary mechanical irritation to the skin.

Eye Contact:

Dusts and fibers from this product may cause temporary mechanical irritation to the eyes.

Ingestion:

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Medical Conditions Aggravated by Exposure:

Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

Chronic Conditions:

See Section 11 for additional information.

*** Section 4 - First Aid Measures ***

Inhalation:

If inhaled, remove the affected person to fresh air. If irritation persists get medical attention.

Skin Contact:

For skin contact, wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into the skin. If irritation persists get medical attention.

Never use compressed air to remove fibers from the skin. If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:

Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur. Do not induce vomiting unless directed to do so by medical personnel.

*** Section 5 - Fire Fighting Measures ***

Flash Point: None
Upper Flammability Limit: Not applicable
Flammability Classification: Non-flammable

Flash Point Method: Not applicable
Lower Flammability Limit: Not applicable

Extinguishing Media:

Dry chemical, foam, carbon dioxide, or water fog.

Unusual Fire & Explosion Hazards:

Vinyl faced products will release hydrogen chloride in a fire.

Fire-Fighting Instructions:

In a sustained fire use self-contained breathing apparatus (SCBA) and full bunker turnout gear.



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

Hazardous Combustion Products:

Primary combustion products are carbon monoxide, carbon dioxide, ammonia, and water. Other undetermined compounds could be released in small quantities.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

This material will settle out of the air. If concentrated on land, it can then be scooped up for disposal as a non-hazardous waste. This material will sink and disperse along the bottom of waterways and ponds. It cannot easily be removed after it is waterborne; however, the material is non-hazardous in water.

Clean-Up Procedures:

Scoop up material and put into a suitable container for disposal as a non-hazardous waste.

Response Procedures:

Isolate area. Keep unnecessary personnel away.

Special Procedures:

None.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Keep product in its packaging until use to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap material. Wear PPE as described in Section 8. Follow good industrial hygiene practices when handling this material.

Storage Procedures:

Material should be kept dry and undercover.

*** Section 8 – Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

ACGIH and OSHA exposure limit lists have been checked for those components with CAS registry numbers.

Fiber Glass Wool (Fibrous Glass) (65997-17-3)

ACGIH: 1 f/cc TLV-TWA for respirable fibers longer than 5 um with a diameter less than 3 um; (Listed under "Synthetic vitreous fibers") (listed as glass wool fibers) (related to particulates not otherwise classified (PNOC))

OSHA: 1 fiber/cc (respirable) TWA (a) (See Note Below) 5 mg/m³ (respirable dust) 15 mg/m³ (total dust)

Note: (a) A voluntary PEL was established by the North American Insulation Manufacturers Association (NAIMA) and OSHA per the Health and Safety Partnership Program (HSPP) agreement for Synthetic Vitreous Fibers (SVF).



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

Ventilation:

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits. Dust collection systems should be used in operations involving the use of power tools.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

Use a properly fitted NIOSH or MSHA approved disposable dust respirator such as the 3M Model 8210 (3M Model 8271 in high humidity environments) or equivalent when you: 1) install or remove loose fill, 2) install or remove any of these products in poorly ventilated spaces such as attics or crawlspaces. As an extra precaution you may choose, but are not required, to wear a disposable dust respirator at all times.

If temperature of the surface being covered exceeds 250°F (121 °C), the binder in these products may undergo various degrees of decomposition depending on the temperature of the application. The need for respiratory protection will vary according to the airborne concentration of the decomposition products released and accumulated in the area. If the insulation must be installed on hot surfaces above 250°F (121 °C), a full face respirator approved for protection against formaldehyde and organic vapors should be used. In areas with good general and/or local exhaust ventilation where exposures are controlled below the formaldehyde occupational exposure limits, respiratory protection is normally not needed.

Skin Protection:

Normal work clothing (long sleeved shirt, long pants, and gloves) is recommended. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers.

Eyes/Face Protective Equipment:

Wear safety glasses or goggles.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Fabric Covered, Fibrous glass	Odor:	Organic
Physical State:	Solid	pH:	Not applicable
Vapor Pressure (mm Hg @ 20 C):	Not applicable	Vapor Density (Air=1):	Not applicable
Boiling Point:	Not applicable	Solubility (H2O):	Insoluble
Specific Gravity (Water=1):	Not applicable	Freezing Point:	Not applicable
Evaporation Rate (n-Butyl Acetate=1):	Not applicable	Viscosity:	Not applicable

Physical Properties: Additional Information

No additional information available.

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability:

This is a stable material.

Conditions to Avoid:

None expected.

Incompatible Materials:

None expected.



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

Hazardous Decomposition Products:

None, except in fire. See Section 5 of MSDS for combustion products statement.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Effects:

General Product Information

None

Component Analysis - LD50/LC50

Urea, polymer with formaldehyde and phenol (25104-55-6)

Oral LD50 Rat: 7 gm/kg

Oral LD50 Mouse: 7 gm/kg

Carcinogenicity:

Fiber Glass Wool: In October 2001, the International Agency for Research on Cancer (IARC) classified fiber glass wool as Group 3, "not classifiable as to its carcinogenicity to humans." The 2001 decision was based on human studies and animal research that have not shown an association between inhalation exposure to dust from fiber glass wool and the development of respiratory disease. This classification replaces the IARC finding in 1987 of a Group B designation "possibly carcinogenic to humans."

In May 1997, the American Conference of Governmental Industrial Hygienists (ACGIH) adopted an A3 carcinogen classification for glass wool fibers. The ACGIH A3 classification considers glass wool to be carcinogenic in experimental animals at relatively high doses, by routes of administration, at sites, or by mechanisms that it does not consider relevant to worker exposure. It also reviewed the available epidemiological studies and concluded that they do not confirm an increased risk of cancer in exposed humans. Overall, the ACGIH found that the available medical/scientific evidence suggests that glass wool is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

In 1994, the National Toxicology Program (NTP) classified glass wool (respirable size) as "reasonably anticipated to be a human carcinogen." This classification was primarily based upon the 1987 IARC classification. NTP is currently considering reclassifying this material.

Component Analysis

Fiber Glass Wool (Fibrous Glass) (65997-17-3)

IARC: Group 3 "not classifiable as to its carcinogenicity to humans" (related to Glasswool)
October 2001 Meeting

ACGIH: A3 - animal carcinogen (related to Glass wool fibers)

NTP: Reasonably anticipated to be a human carcinogen (related to glasswool) (possible select carcinogen)

*** Section 12 - Ecological Information ***

This material is not toxic to animals, plants, or fish.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions:

A: General Product Information

This product, if discarded, is not expected to be a characteristic hazardous waste under RCRA.



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 – Transportation Information ***

US DOT Information

Shipping Name: Not regulated for transport.

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info.: None

TDG Information

Shipping Name: Not regulated for transport.

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info.: None

Additional Transportation Regulations:

No additional information available.

*** Section 15 - Regulatory Information ***

US Federal Regulations:

A: General Product Information

No additional information available

B: Component Analysis

This material contains one or more of the following chemicals that are identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

None

The following is provided to aide in the preparation of SARA Section 311 and 312 reports.

SARA 311/312

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

C: Clean Air Act

The following components appear on the Clean Air Act-1990 Hazardous Air Pollutants List:

None



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

State Regulations:

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Fiber Glass Wool (Fibrous Glass) (' related to Mineral wool fiber)	65997-17-3	Yes ¹	No	Yes ¹	Yes ¹	No	Yes ¹

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulations:

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Fiber Glass Wool (Fibrous Glass)	65997-17-3	Yes	Yes	Yes
Urea, polymer with formaldehyde and phenol	25104-55-6	Yes	Yes	No

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	
Fiber Glass Wool (Fibrous Glass)	65997-17-3	1% item 768 (884) (related to Fibrous glass)

WHMIS Status: Controlled

WHMIS Classification: D2A- Carcinogenicity

D2B- Irritation

*** Section 16 - Other Information ***

HMIS and NFPA Hazard Ratings:	Category	HMIS	NFPA
	Acute Health	1*	2
	Flammability	0	2 (facing, packaging)
	Reactivity	0	0

NFPA Unusual Hazards: None.

HMIS Personal Protection: To be supplied by user depending upon use.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



Material Safety Data Sheet

Material Name: Basement Wall Finishing System – Wall Panel

MSDS No.: 15-MSD- 22934-01-A

Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act

Revision Summary:

This is a revised MSDS, which replaces 15-MSD-22934-01 with updated toxicological data, PPE information and chemical composition information.

Get OC MSDS electronically via Internet: <http://www.owenscorning.com> or by calling 1-419-248-8234.

This is the end of MSDS # 22934-01-A



Study Objective

To validate the theory that no vapor retarder should be used with the Basement Finishing System. This would be accomplished by obtaining point moisture condition and combined system moisture transport data for various vapor retarder configurations with the system. Of key interest is the locations in the basement system where moisture levels are high; the interior humidity and temperature conditions under which such high levels are achieved; as well as the interior temperature and humidity conditions required for complete moisture removal (wetting/drying curves).

The study was conducted at the University of Minnesota Foundation Test Facility and began in November of 1998. The Owens Corning Basement Finishing System (R11) was installed with three vapor retarder configurations:

- A polyethylene vapor retarder placed between the insulation and the foundation wall "Exterior Side Vapor Retarder"
- A polyethylene vapor retarder placed on the interior surface (between the insulation and interior air.) "Interior Side Vapor Retarder"
- "No Vapor Retarder" on 2 of the module quadrants (opposing corners)

From 12/98 through 2/00, measurements were taken of: interior air temperature, humidity ratio, and barometric pressure, ambient exterior temperature and humidity ratio, and humidity ratio measurements at 40 locations within the insulation (10 per quadrant). Additional data was collected for: amount of dehumidifier condensate (water) removed, mass of 8 removable sq. ft. sections, electrical energy consumption

Discussion

The environmental conditions were established to be representative of "typical" MN basement conditions. Testing began with the basement module under ideal indoor conditions – 65°F and low relative humidity (40% RH). Conditions were later modified to represent a "worst case scenario" – an unconditioned basement at 56°F and 70% RH. Following is a brief discussion of each quadrant performance.

Exterior Side Vapor Retarder:

During the winter months, condensation formed on the insulation side of the vapor retarder. The amount of condensate was enough run down the vapor retarder onto the floor. As the climate transitioned into spring and summer, water droplets accumulated on the exterior wall side of the vapor retarder. In both the heating and cooling seasons, this vapor retarder configuration was clearly unacceptable.

Interior Side Vapor Retarder:

When the vapor retarder was placed on the interior surface, condensation also accumulated on the insulation side of the vapor retarder. Additionally, the insulation panels showed moisture gain during the spring/summer at levels that exceeded the drying potential during the heating season. This cycle would result in the insulation becoming progressively "wetter" over time. Thus, the interior vapor retarder configuration was unacceptable.

No vapor retarder:

The two quadrants with no vapor retarder clearly showed a "stable wetting/drying annual cycle in a heated basement." As expected, a more significant moisture gain was observed in the panels during the "unconditioned" phase of the study with no dehumidification. However, the data also showed the ability of the system to effectively "dry out" once conditions changed. This can be extrapolated to conclude "the zero vapor retarder configuration has a stable wetting/drying annual cycle in an approximately unheated basement as well."

Conclusion

When installing the Owens Corning R11 Basement Finishing System, a vapor retarder should NOT be used. The use of a single vapor retarder, regardless of the location, provided a condensation plane where liquid water formed and remained trapped in the system.

Additional information regarding this report can be obtained by contacting Owens Corning at 1-800-GET-PINK.



Research Report

21•24

MANUFACTURER:

OWENS CORNING
ONE OWENS CORNING PKWY
TOLEDO, OHIO 43659

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

Section 07200 – Insulation

DIVISION 9 – FINISHES

Section 09540 – Special Wall Surfaces

EVALUATION SUBJECT:

BASEMENT WALL FINISH SYSTEM™

PRINTED AUGUST, 2000

Page 1 of 2

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evaluation scope

Compliance with the following codes:

BOCA National Building Code/1999

- Section 803.2 Classification
- Section 803.6 Carpet and carpet-like wall coverings
- Section 106.4 Alternative materials and equipment
- Section 2603.7 Interior trim
- Section 1301.1 Scope (Energy conservation)

1998 International One- and Two-Family Dwelling Code

- Section 318.1 Wall and ceiling (flame spread index)
- Section 318.2 Smoke-developed index
- Section 318.3 Testing

description

OWENS CORNING Basement Wall Finishing System™ is an alternative to conventional wall framing and gypsum wallboard. The Basement Wall Finishing System™ consists of PVC support lineals, base, batten, and cove moldings, and rigid prefinished fiberglass panels. Panels are prefinished with a fabric cover. Basement Wall Finishing System™ is primarily intended for installation in residential applications. Refer to Figure 1 at the end of this report for illustrations of the Basement Wall Finishing System™.

The Basement Wall Finishing System™ shall be installed in accordance with the manufacturer's installation instructions and this report. Installation typically consists of either mechanical fasteners or adhesive fastening or a combination of both to the supporting substrate. Thermal resistance (R-value) for the fiberglass panels is 11.

Basement Wall Finishing System™ panels meet the requirements for classification as a Class I interior finish as tested in accordance with ASTM E84 and also has demonstrated that it will not spread fire to the edge of the specimen or cause flashover in the test room in accordance with the testing requirements specified in Section 803.6(2) of the *BOCA National Building Code/1999*.

condition of use

This report is limited to applications and products as stated herein. BOCA-ES intends that this report be used by the code official to determine that the report subject complies with the code requirements specifically addressed, provided that this product is installed in accordance with the following conditions:

- OWENS CORNING Basement Wall Finishing System™ is intended for finishing walls in basement applications. Other applications are outside the scope of this report.
- The maximum permitted area of the PVC moldings shall not exceed 10 percent of the aggregate wall and ceiling area of the room.
- Installation of the Basement Wall Finishing System™ shall be in accordance with this report and the manufacturer's installation manual.
- Basement Wall Finishing System™ shall be installed over cast-in-place concrete or concrete masonry unit walls, or wood or metal stud framing. Supporting structural systems shall conforming to code requirements for that system and are outside scope of this report.
- The electrical wiring in the chase at the bottom of the Basement Wall Finish System™ shall conform to the requirements of the code and is outside the scope of this report.

items requiring verification

The following items are related to the use of the report subject, but are not within the scope of this evaluation. However, these items are related to the determination of code compliance.

- ✓ Concealed electrical, mechanical, or plumbing components shall be inspected prior to the installation of the Basement Wall Finishing System™ panels to verify compliance with related code requirements. Evaluation of these components is outside scope of this report.
- ✓ Framing supporting the Basement Wall Finishing System™ shall be inspected prior to the installation of the panels to verify compliance with related code requirements. Evaluation of this framing is outside scope of this report.



information submitted

- Integrex™ Testing Systems, Report No. 73143, dated April 17, 2000, containing results of physical testing.
- Integrex™ Testing Systems, Report No. C423-99065, dated August 19, 1999, containing results of physical testing.
- Omega Point Laboratories, Report No. 13060-103216a, dated May 14, 1999, containing results for fire testing in accordance with ASTM E84 for rigid fiberglass wall panels used in Basement Wall Finishing System™.
- Omega Point Laboratories, Report No. 16218-106644, dated April 13, 2000, containing results for fire testing in accordance with ASTM E84 for moldings used in Basement Wall Finishing System™.
- Omega Point Laboratories, Report No. 13060-103213a, dated June 7, 1998, and Report No. 13060-104470a, dated March 24, 1999, containing results for fire testing for full-scale room corner testing in accordance with requirements contained in Section 803.6 (2) of the *BOCA National Building Code/1999*.
- OWENS CORNING *Product Literature*, dated May 1998.
- OWENS CORNING *Submittal Sheet for Basement Wall Finishing System (BWFS)*, dated April 2000.
- OWENS CORNING *Basement Wall Finishing System Installation Manual*, dated January 2000.

application for permit

To aid in the determination of compliance with this report, the following represents the minimum level of information to accompany the application for permit:

- The language "See BOCA Evaluation Services, Inc. Research Report No. 21-24" or a copy of this report.
- Plans indicating the aggregate area of the room and the area of the PVC moldings being used.
- Plans and specifications of any electrical, mechanical, or plumbing items installed within the wall system.
- Details and specifications of the supporting construction to which the system is to be applied.

product identification

All OWENS CORNING Basement Wall Finishing Systems™ manufactured in accordance with this research report shall bear the following identification:

- "See BOCA Evaluation Services, Inc. Research Report No. 21-24."

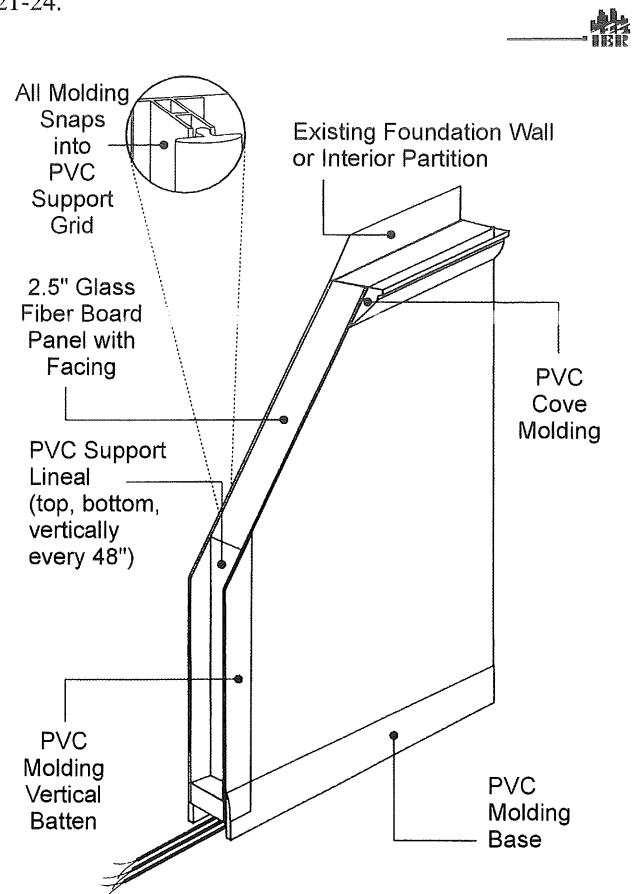


Figure 1*
Sketch of Basement Wall Finish System™
Showing Typical Components

*THIS DRAWING IS FOR ILLUSTRATION PURPOSES ONLY. IT IS NOT INTENDED FOR USE AS A CONSTRUCTION DOCUMENT FOR THE PURPOSE OF DESIGN, FABRICATION OR ERECTION.

NOTICE TO REPORT USERS

This report is subject to annual certification. Reports that are not certified shall not be used or referred to. To determine the status of certification of this report, contact BOCA Evaluation Services, Inc., or consult the latest edition of the *BOCA International Product Evaluation Listing* published periodically in the BOCA magazine.

This report is subject to the conditions listed herein and to the specific product, data and test reports submitted by the applicant requesting this report. Independent test were not performed by BOCA Evaluation Services, Inc. and BOCA-ES specifically does not make any warranty, either expressed or implied, as to any findings or other matter in this report or as to any product covered by this report. Evaluation reports are not to be construed as representing aesthetics or any other attributes not specifically addressed nor as an endorsement or recommendation for the use of the report subject. This disclaimer includes, but is not limited to, merchantability.

Please contact BOCA Evaluation Services, Inc., with any questions you may have regarding this report. Additionally, please contact us if you have any information on the performance of the product described herein which is contrary to this report.

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BASEMENT FINISHING SYSTEM INTERIOR WALL PANEL

SUBMITTAL SHEET

DESCRIPTION

The Owens Corning™ Basement Finishing System is comprised of lightweight fiber glass panels, PVC lineals (which replace conventional framing) and foamed PVC trim moldings (which replace trim lumber). The trim moldings snap into the lineals, holding the panels in place. Moldings and wall panels are easily removed for removing or adding wiring. Because traditional wood and paper-based building materials are replaced with fiber glass and PVC materials, the Basement Finishing System offers inherent resistance to moisture, mold and mildew*. The system is covered by a lifetime limited transferable warranty** from Owens Corning.

USES

The Owens Corning™ Basement Finishing System is an innovative system designed to finish basement walls in a few simple steps while providing acoustical treatment. The interior wall panel provides a Class A flame spread rating, meeting the requirements for the IBC for single and multi-family residences. The interior panels can be installed over interior partition walls and stairwells built with either wood or metal members. Panels may be used on wood framed walkout walls that are insulated and meet local vapor barrier code requirements.

AVAILABILITY

94" x 48" x 15/16" Panels
Lineals

Trim Molding:

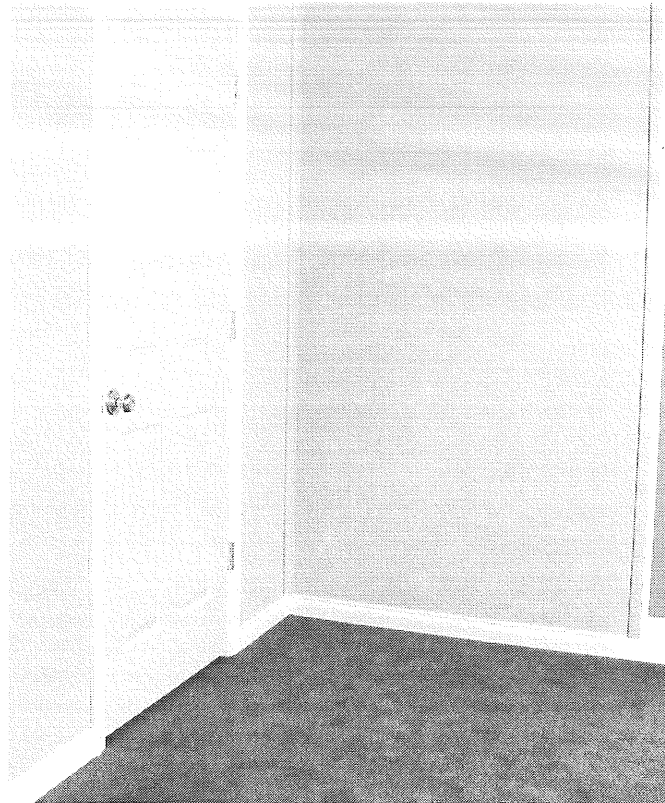
Cove Molding
Vertical Battens
Base Molding
Outside Corner
Casing
Jamb Extender
Chair Rail

Color Choices:

Panels: "Linen Mist" woven fabric
Trim: All trim available in White or Woodgrain.
In addition, vertical trim available in fabric look finish or fabric wrapped to match panels.

* While the materials and design of the Owens Corning™ Basement Finishing System resist mold and mildew, the System can not prevent or alleviate mold if the conditions necessary for mold growth otherwise exist in your basement.

**See actual warranty for details, limitations and restrictions.



PHYSICAL PROPERTIES

Property	Test Method	Value
For Fiber Glass Board:		
Water Vapor Sorption	ASTM C 1104	<2% by wt. @ 120NF, 95% RH
Compressive Strength @10% deformation	ASTM C 165	min. 25 psf
@25% deformation		90 psf
Normal Density	ASTM C 303	5.0 PCF
For Finished Panel:		
Noise Reduction Coefficient	ASTM C 423 Type A Mount	0.75
Surface Burning Characteristics -Meets Class A Burn Rating	ASTM E 84+	Class A Flame Spread ≤ 25 Smoke Developed ≤ 450
Interior Textile Finish Fire Classification	NFPA-286	Meets Acceptance Criteria
Mold Resistance	ASTM C 1338 ASTM G 21	Pass Pass

+ The surface-burning characteristics of the finished composite panel were determined in accordance with ASTM E 84. This standard measures and describes the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions. Data from ASTM E 84 testing cannot be used to describe or assess the fire hazard or fire risk of materials, products or assemblies when considering all of the factors pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

FEATURES AND BENEFITS

Feature	Benefit
Removable wall system	Installs in about 2 weeks
Snap-out moldings and walls	Complete interior access
Resilient glass fiber construction	Will not dent like drywall
Moisture resistant materials	Resists mold and mildew growth
15/16" thick panels	Ease of use for stairwell situations, fits standard door jambs Sound Control
Tackable surface	Hanging pictures or papers without leaving permanent holes with proper use of picture support plate
Wall panels indexed 1-3/4" off of floor	Helps to minimize flood damage potential
Removable base molding	Provides wire chase for speaker wires, TV cable, computer
Lifetime limited transferable warranty**	Offers homeowner peace of mind
Dupont Teflon® fabric protector	Stain resistant
Certified installers	Individuals trained for quality installation
Ceiling design flexibility	Integrates easily with drop or drywall ceilings

Based on an average basement, with two certified installers.

**See actual warranty for details.



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