Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

B ... ECTION

PERM...

Please Read Application And Notes, If Any, Attached

PERMIT ISSUED

Permit Number: 060233

MAY - 1 2006

CITY OF PORTLAND

This is to certify that THIRD SPACE LLC /Hap... ...ry

has permission to Change of use 6 unit to a 4 u... and ... and fr... in basement for 4th...

AT 151 PINE ST

provided that the person or persons ...rm or ...tion ...epting this permit shall comply with al... of the provisions of the Statutes of ...ine and of the ...ances of the City of Portland regulatin... the construction, maintenance and u...e of buildings and ...ctures, and of the application on file i... this department.

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

N...ficatio... f inspe...n mus...e g...n and w...en permi...on proc...d b...re this ...lding or ...rt there...s l...ed or ...osed-in. 4 ...UR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. Greg Cass 3-22-06

Health Dept.

Appeal Board

Other

Department Name

Director - Building & Inspection Services 4/28/06

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:	Issue Date:	CBL:
060233	PERMIT ISSUED	063 G011001

Location of Construction:	Owner Name:	Owner Address:	Phone:
151 PINE ST	THIRD SPACE LLC	PO BOX 7665	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Hap Cleary	40 Aldworth St. Portland	2077970219
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Change of Use - Dwellings	R4/R2

MAY - 1 2006

CITY OF PORTLAND

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Multi family	Multi family Change of use 6 unit to a 4 unit and modify 3rd floor and framing in basement for 4th unit	$438.00	$37,500.00	2

FIRE DEPT: ☑ Approved ☐ Denied

TO NFPA 101

Signature: Greg Cass

INSPECTION:

Use Group R-2 Type: 5B

4/28/06

Signature:

Proposed Project Description:

Change of use **6** unit to a 4 unit and modify 3rd floor and framing in basement for 4th unit

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
dmartin	0211312006

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. 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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☐ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☑ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
w/ conditions		
Date: 3/21/06	late:	Date: D. Andrews 3/21/06

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

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
06-0233	02/13/2006	063 G011001

Location of Construction:	Owner Name:	Owner Address:	Phone:
151 PINE ST	THIRD SPACE LLC	PO BOX 7665	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Hap Cleary	40 Aldworth St. Portland	(207) 797-0219
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Change of Use - Dwellings	

Proposed Use:	Proposed Project Description:
Multi family Change of use 6 unit to a 4 unit and modify 3rd floor and framing in basement for 4th unit	Change of use 6 unit to a 4 unit and modify 3rd floor and framing in basement for 4th unit

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 03/09/2006

Note: This was a 6 residential unit building (two units in basement, two on the first floor, one on the second floor and one on the third floor). The two units on the first floor were combined into one. The two units in the basement will now be one unit. Once the renovations are complete, this will be a 4 residentail unit building. **Ok to Issue:** ☐

1) This property shall remain a four family dwelling. Any change of use shall require a separate permit application for review and approval.

2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

3) ANY exterior work requires a separate review and approval thru Historic Preservation

Dept: Building **Status:** Pending **Reviewer:** Mike Nugent **Approval Date:**

Note: **Ok to Issue:** ☐

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 03/22/2006

Note: **Ok to Issue:** ☐

1) **All** building construction shall comply with NFPA 101
A copy of the code is available apon request.

2/24/2006-amachado: I spoke with the owner, Lisa Foley. We need more complete plans for the unit that is going in in the basement.

2/27/2006-amachado: I left a message with Lisa Foley. We need a floor plan of the first floor when it was two units which shows what was done to convert it to one. We also need a floor plan of the basement that shows the two units that originally existed and where the second door was that was closed up.

3/8/2006-GG: recieved additional plans. /gg

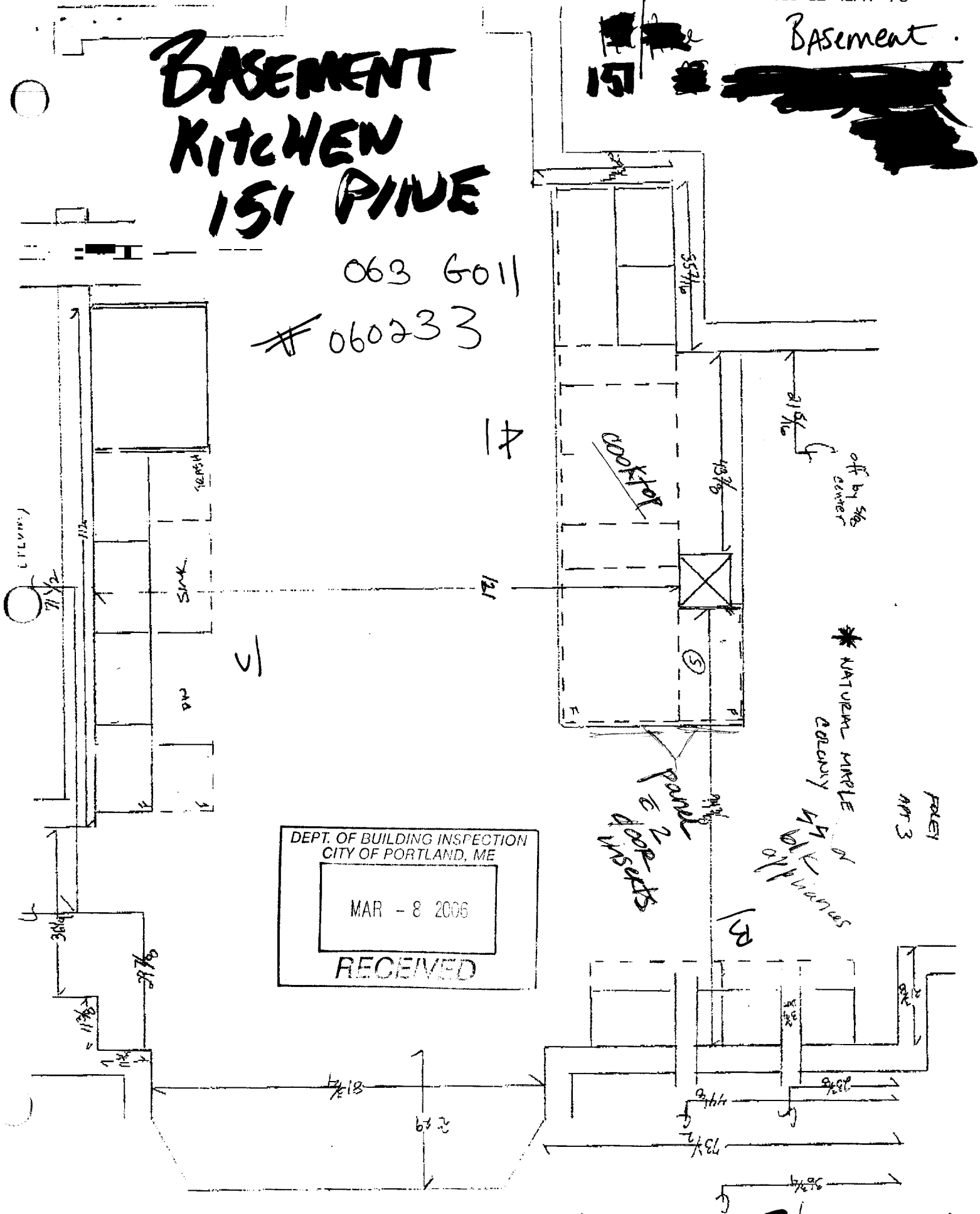
3/29/2006-mjn: Left message with Lisa Foly , have structural questions, Egress and fire separation assemblies.

BASEMENT KITCHEN 151 PINE

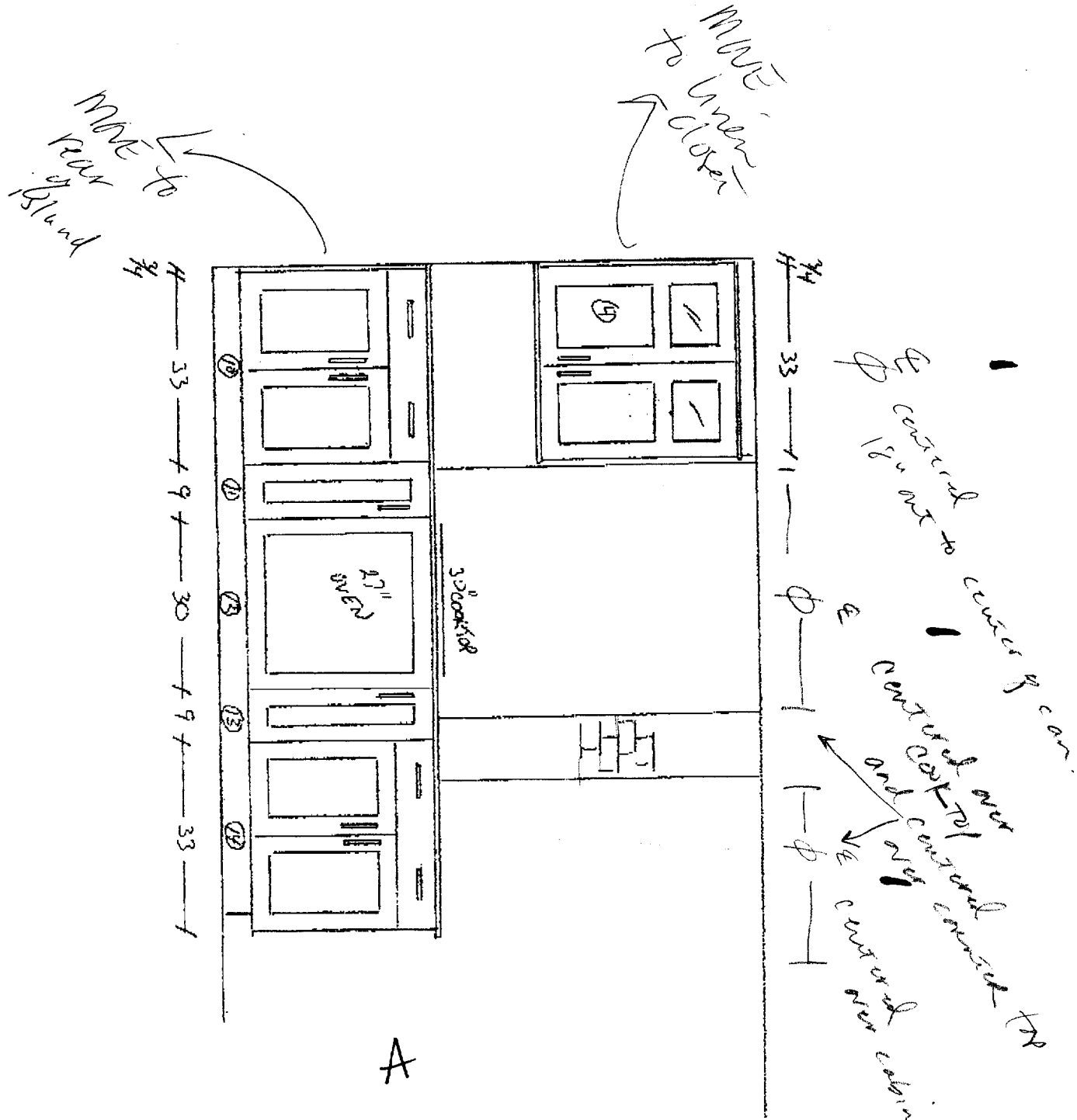
[redacted] Basement.

063 G011

#060233



#cans 8 recessed



DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
MAR - 8 2005
RECEIVED

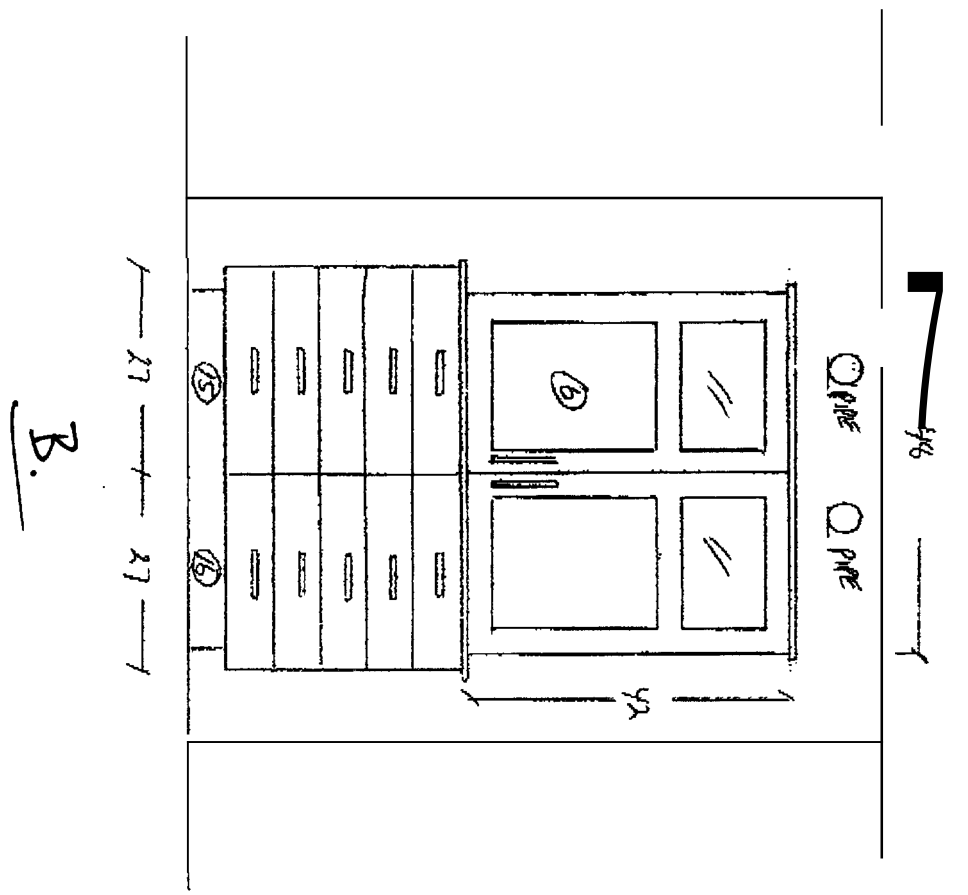
8

3 cans

FILE
APT 3

116

FROM : Campbell Construction FAX NO. : 802 655 2593 Feb. 07 2005 12:42PM P4

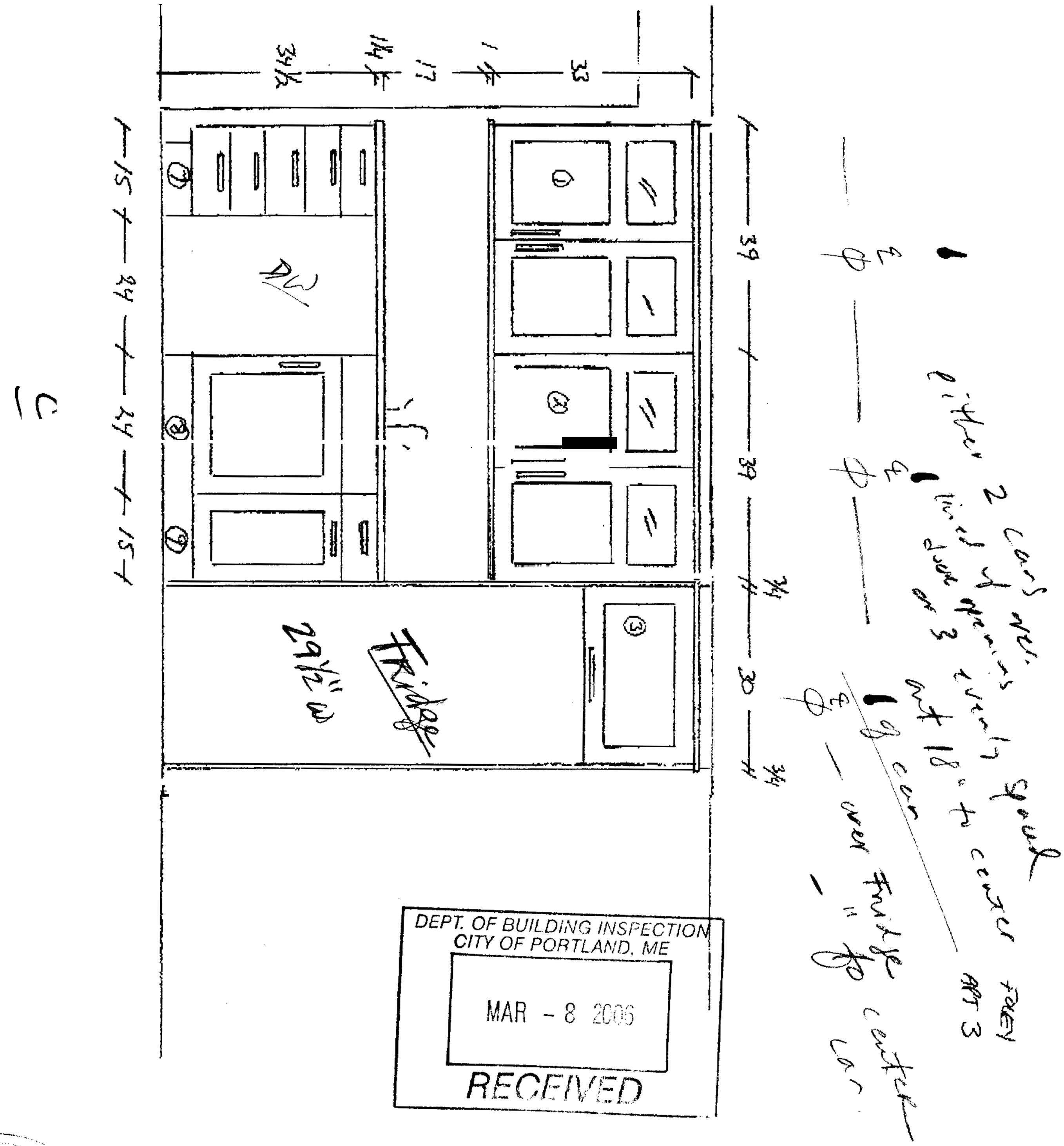


conduit over wall
18" off wall to center of 4" can

FOLEY
APT 3

DEPT. OF BUILDING
CITY OF

2 cans



3 Cans

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.

Total Square Footage of Proposed Structure	Square Footage of Lot
5200 Foot Print 1300 +	APX 9300

Tax Assessor's Chart, Block & Lot	Owner:	Telephone:
Chart# 63 Block# G Lot# 011	3rd Space LLC Po Box 7665	653-4149

Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone:	Cost Of
	HAP CLEARY 40 ALDWORTH ST Portland MAINE 04103	Work: $ 37500 Fee: $ 363.00 C of O Fee: $

Project description: MODIFY 3rd Floor, Framing ~~Chg of~~ [redacted] IN BASTMENT For 4th UNIT ~~Use 3 unit 4 unit~~ → change of use 6 → 4

Contractor's name, address & telephone: HAP CLEARY 40 ALDWORTH ST PortLAND MAINE

Who should we contact when the permit is ready:

Mailing address: Phone: 797 0219

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.

CITY OF PORTLAND, ME
FEB 13 2006
RECEIVED

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: [signature] **Date:** 2/13/06

This is not a permit; you may not commence ANY work until the permit is issued.

V#1223

HAP CLEARY
40 ALDWORTH ST.
PORTLAND, ME 04102
207-797-0219

INSPECTIONS/ CODE ENFORCE MENT
CITY OF PORTLAND

FIRE ASSEMBLIES FOR 151 PINE STREET

BASEMENT INTERIOR WALLS U. L. ASSEMBLY BXUV.U311

BASEMENT EXTERIOR WALLS U.L. ASSEMBLY BXUV. U330

NOTES: ALL WALLS' DRYWALL TO BE HUNG VERTICALLY.
ALL COLUMNS ARE MASONRY
NO WALLS ARE STRUCTURAL

BASEMENT CEILING U.L. ASSEMBLY.BXUV.L569

THIRD FLOOR CEILING U.L. ASSEMBLY BXUV.L569

151 Pine - 63 G 11
060253

UL Online Certifications Directory

BXUV.U311
Fire Resistance Ratings - ANSI/UL 263

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Fire Resistance Ratings - ANSI/UL 263

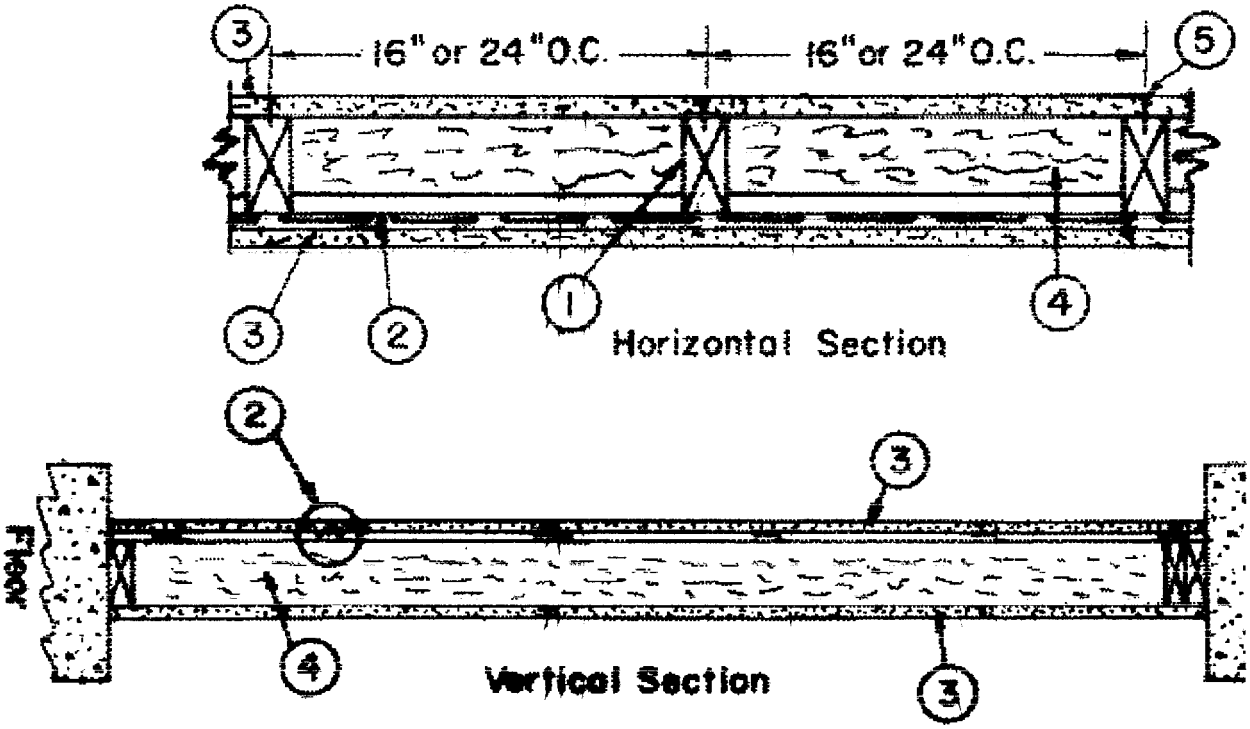
See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U311

December 17, 2004

Bearing Wall Rating — 1 HR.

Finish Rating — 23 Min.



1. **Wood Studs** — Nom 2 by 4 *in.*, spaced 16 *or* 24 *in.* OC. Effectively cross braced.

2. **Resilient Channel — 25 MSG galv steel.** Resilient channels spaced vertically 24 in. OC, flange portion screw attached to one side of stud with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws.

2A. **Steel Framing Members (Optional, Not Shown)*** — As an alternate to Item 2, furring

6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

b. Steel Framing Members* — Resilient sound isolation clip used to attach furring channels (Itqm a) to studs (Item 1). Clips spaced 48 in. OC. and secured to studs with No. 8 x 2-1/2 in. coqrse drywall screw through me center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Type RSIC-1.

3. Gypsum Board* — 5/8 in. thick, 4 ft wide. Screw attached one side to furring channeis with 1 in. long, self-drilling, self-tapping steel Screws spaced 12 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-Capping screws, spaced 12 in. OC, along each edge. Wallboard attached otner side to studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws spaced 12 in. OC, vertical joints located over studs.

AMERICAN GYPSUM CO — Types AG-C.

BPB AUERICA INC — Type FRPC, ProRoc Type C.

BPB CANADA INC — ProRoc Type C.

CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR.

G-P GYPSUM CORP, SUB OF

GEORGIA-PACIFIC CORP — Type 5.

LAFARGE NORTH AMERICA INC — Types LGFC-C, LGFC-C/A.

NATIONAL GYPSUM CO — Types FSK-C, FSW-C, FSW-G.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Type C or PG-C.

STANDARD GYPSUM L L C — Type SG-C.

TEMPE-INLAND FOREST PRODUCTS CORR — Type TG-C.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

ROCK WOOL MANUFACTURING CO — Delta Board.

JOHNS MANVILLE INTERNATIONAL INC

ROXUL INC

THERMAFIBER INC — Type SAFB.

4A. Glass Fiber Insulation — (As an alternate to Item 4) — 3 in thick glass Rber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies

43. *Fiber,* Sprayed* — As an alternate to Batts and Blankets [Item 4) — Spray applied cellulose material The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product Nominal dry density of 3 0 lb/ft^3 Aiternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2 5 lb/ft^3

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

5. Joints and Screw heads — Wallboard joints covered witn paper tape and joint compound. Screw heads covered with joint compound. As an alternate, nom 3/32 *in.* thick gypsum veneer plaster may be applied to the entire surface of Classified veneqr baseboard. Joints reinforced.

*Bearing the UL Classification Mark

Last Updated on 2004-12-17

UL Online Certifications Directory

BXUV.U330
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Fire Resistance Ratings - ANSI/UL 263

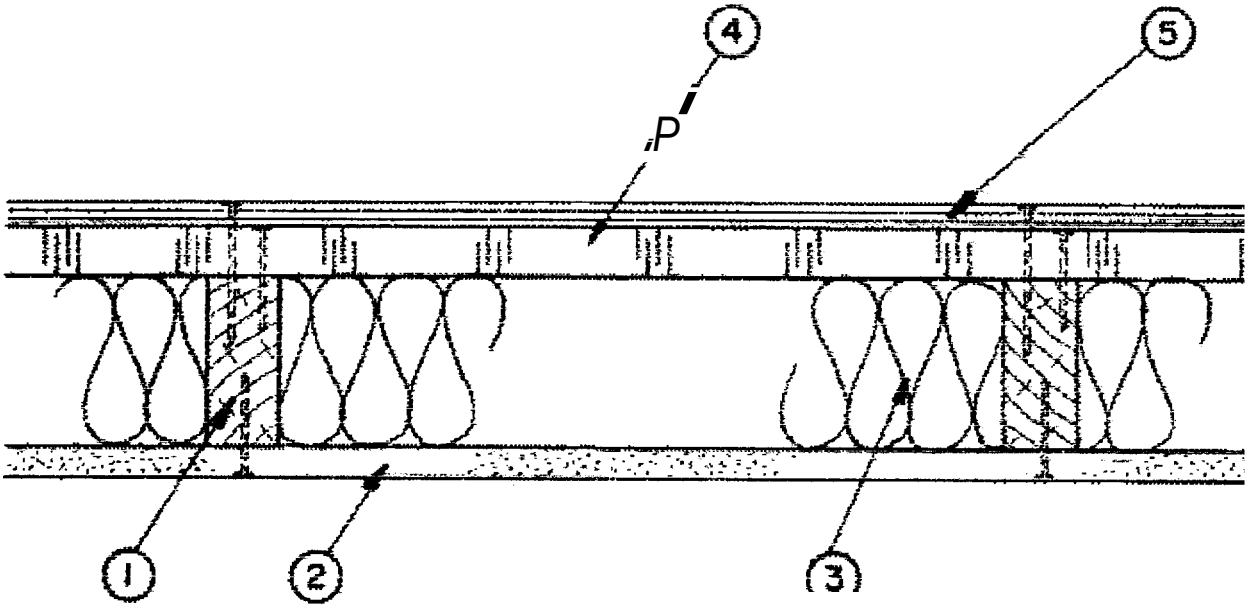
See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U330

December 17, 2004

(Exposed to Fire on Interior Face Only)

Bearing Wall Rating — 1 HR.



1. **Wood Studs** — Nom 2 by 4 in., spaced 16 in. OC.

2. **Gypsum Board*** — 5/8 in. thick (min) 4 ft wide bearing the ULI Classification Marking for Fire Resistance applied vertically. Attached to studs with 6d cement coated nails spaced 7 in. OC at the edges and in the field. Vertical joints located over studs. Joints covered with paper tape and joint compound. Nail heads covered with joint compound.

See Gypsum Board (CKNX) Category for names of Classified Companies.

J. Batts and Pr...

application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density ot 2.5 lb/ft^3.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

4 **Foamed Plastic*** — 1 in thick rigid polystyrene insulation attached to studs with 1-1/2 in long galvanized roofing nails.

THE DOW CHEMICAL CO

***OC* CELFORTEC INC**

OWENS CORNING SPECIALTY & FOAM

PRODUCTS

4A. **Foamed Plastic*** — 1in. thick rigid polyisocyanurate insulation attached to studs with 1-1/2 in. long galv roofing nails.

THE DOW CHEMICAL CO — Type Thermax

5 **Plywood Sheathing (Siding)** — Min 1/2 in. thick olvwood applied verticallv with vertical joints located over studs Fastened to studs with 10d galvanized nails 6 in OC at edges and 12 in OC in the field.

5A **Alternate Exterior — Hard board Panelina — Mineral and Fiber Boards*** — Untreated panels nom 7/16 or 1/2 in thick, 12 ta 4R in wide Skip lapped panel sidings are fastened to framing members with 10d rust — resistant nails thru the lap spaced 6 in O.C. verticallv. Butted panel siding fastened to framina members with 10d nails 3/8 in. from edge soaced *6* in. O.C. vertically Tap sidings fastened te framing members with 12d nails 3/8 in from edges spaced 16 in O C horizontallv (Aluminumjoint molding as required for lap products)

MASONITE CORP

*Bearing the UI Classification Mark

Last Updated on 2004-12-17

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Fire Resistance Ratings - ANSI/UL 263

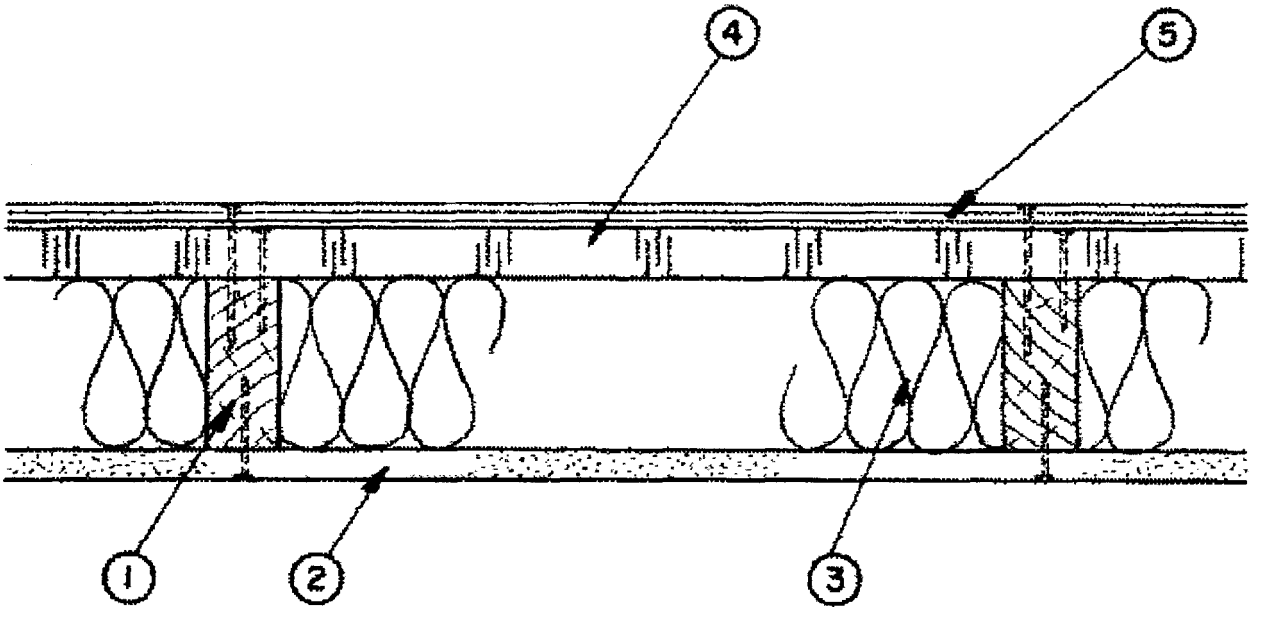
See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U330

December 17, **2004**

(Exposed to Fire on Interior Face Only)

Bearing Wall Rating — 1 HR.



1. Wood Studs — Nom 2 **by 4** in., spaced **16** in. OC.

2.* Gypsum Board — **5/8** in. thick (min) **4** ft wide bearing the ULI Classification Marking For Fire Resistance applied vertically. Attached to studs with **6d** cement coated nails spaced 7 in. OC at **the** edges and in the field. Vertical joints located over **studs.** Joints covered with paper tape and joint compound. Nail heads covered with joint compound.

See Gypsum Board (CKNX) Category **for** names of Classified Companies.

3. Batts and Blankets* — Min **3-1/2** in. mineral wool batts placed to fill cavity of wall

See Batts and Blankets (BZJZ) Category for names of Classified Companies.

3A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose material. The fiber is applied with water to completely Fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density **of** 3.0 lb/ft^3. Alternate

application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft^3.

U S GREENFIBER L L C — Cocoon2 Stabilized oi Cocoon-FRM (Fire Rated Material)

4. Foamed Plastic* — *i* in. tnick rigid poiystyrene insulation attached to studs with 1-1/2 in. long galvanized roofing nails.

THE DOW CHEMICAL CO

OC CELFORTEC INC

OWENS CORNING SPECIALTY & FOAM

PRODUCTS

4A. Foamed Plastic* — *i* in. thick rigid polyisocyanurate insulation attached to studs with 1-1/2 in. long galv roofing nails.

THE DOW CHEMICAL CO — Type Thermax

5.* plywood Sheathing (Siding)** — Min 1/2 in. thick plywood applied vemcaily with vertical joints located over studs. Fastened **to** studs with 10d galvanized nails ***6 in. OC at edges and 12 in. OC in the field.

5A. **Alternate Exterior — Hard board Paneling — Mineral and fiber Boards*** — Untreated panels nom 7/16 or 1/2 in. thick, 12 to 46 in. wide. Ship iappea panei sidings are fastened to framing members with 10d rust — resistant nails thru the lap spaced ***6*** in. O.C. vertically. Butted panel siding fastened to framing members with 10d nails 3/8 in. from edge spaced 6 in. O.C. vertically. Lap sidings fastened to framing members with 12d nails 3/8 in. from edges spaced 16 in. O.C. horizontally. (Aluminum joint molding as required for lap products).

MASONITE CORP

*Bearing the UL Classification Mark

Last Updated on 2004-12-17

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BXUV.L569
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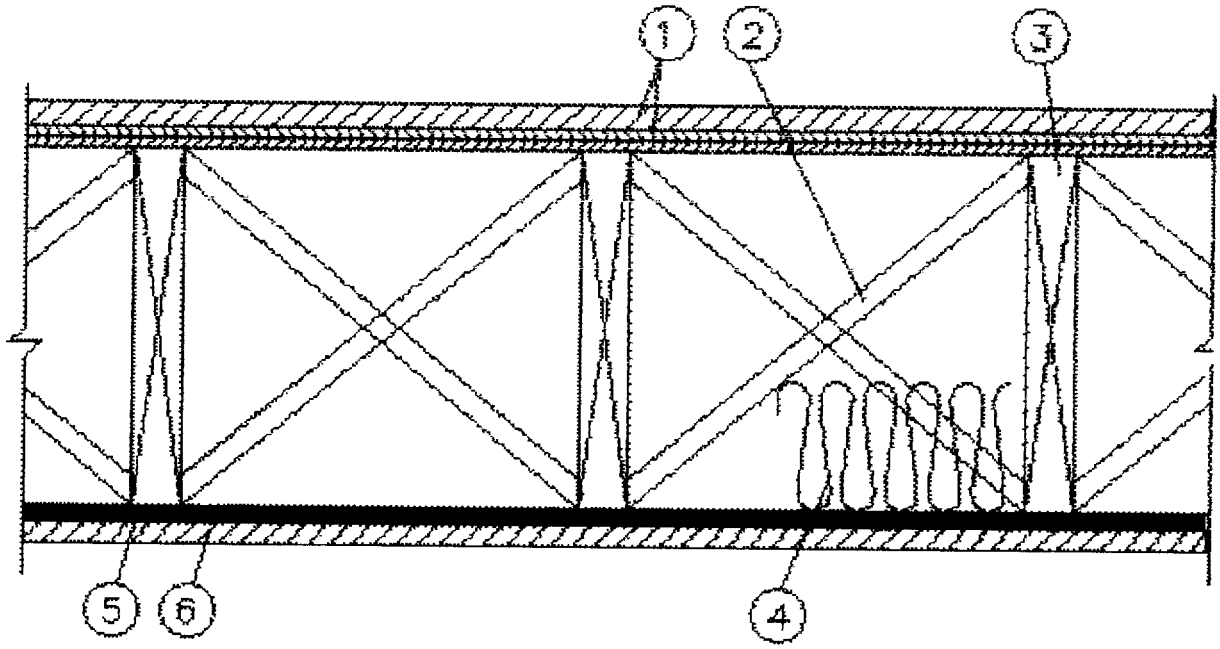
Fire Resistance Ratings - ANSI/UL 263

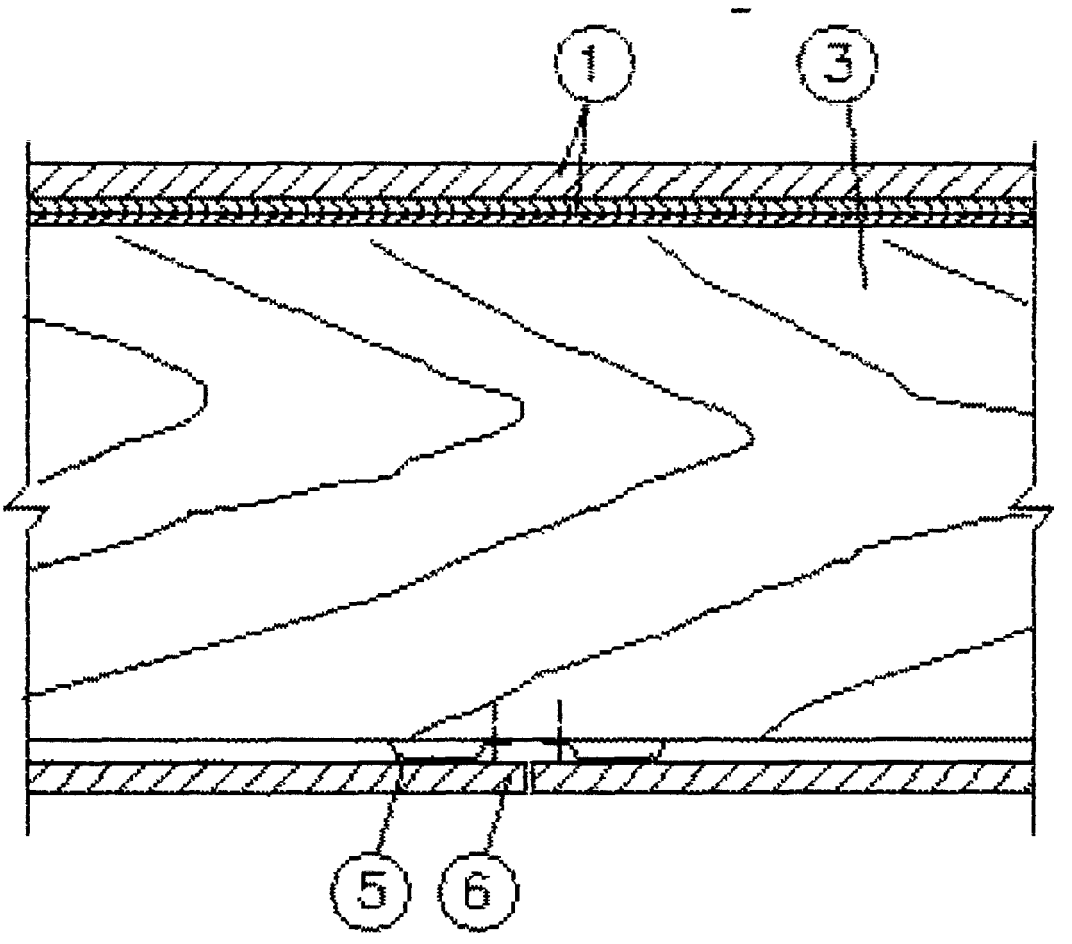
See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. L569

April 15, 2005

Unrestrained Assembly Rating – 1Hr.





1. **Flooring System** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Floor — Min 1 by *4* in. T & G lumber installed perpendicular to the joists, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. *OC* along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) - Min 3/8 in. to max *3/4* in. thick floor mat material loosely laid over the subfloor.

UNITED STATES GYPSUM CO — LEVELROCK® Brand Sound Reduction Board

Alternate Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loosely laid over the subfloor.

UNITED STATES GYPSUM CO — LEVELROCK® Brand Floor Underlayment SKM-25

Alternate Floor Mat Materials* — (Optional) - Nom 3/8 in. thick floor mat material loosely laid over the subfloor.

SOLUTIA INC — Type SC50

Finish Flooring - Floor Topping Mixture* — Min 1/2 in. thickness of floor topping mixture having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — LEVELROCK® Brand 2500, LEVELROCK® Brand RH

System No. 3

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loosely laid over the subfloor.

UNITED STATES GYPSUM CO — LEVELROCK® Brand Sound Reduction Board

Alternate Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loosely laid over the subfloor.

UNITED STATES GYPSUM CO — LEVELROCK® Brand Floor Underlayment SKM-25

Alternate Floor Mat Materials* — (Optional) - Nom 3/8 in. thick floor mat material loosely laid over the subfloor.

SOLUTIA INC — Type SC50

Finish Flooring - Floor Topping Mixture* — Min 1/2 in. thickness of floor topping mixture, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — LEVELROCK® Brand 3500, LEVELROCK® Brand Commercial RH

System No. 4

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor flat Materials* – (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loosely laid over the subfloor.

UNITED **STATES GYPSUM CO** – LEVELROCK® Brand Sound Reduction Board

Alternate Floor Mat Materials* – (Optional) - Nom 1/4 in. thick floor mat material loosely laid over the subfloor.

UNITED STATES GYPSUM CO – LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* – (Optional) - Nom 3/8 in. thick floor mat material loosely laid over the subfloor.

SOLUTIA INC – Type SC50

Finish Flooring - Floor Topping Mixture* – Min 1/2 in. thickness of floor topping mixture having a min compressive strength of 3000 psi. Refer to manufacturer's instructions accompanying the material For specific mix design.

UNITED STATES GYPSUM CO – LEVELROCK® Brand 4500

2. **Cross Bridging** – 1 by 3 in.

3. Wood Joists – 2 by 10 in., spaced 16 in. QC, firestopped. Spacing may increased to 24 in. OC when Item 7, Battens, are used.

4. Batts and Blankets* – (Optional) – Giass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. - When the resilient channels (Item 5) or furring channels (Item 5B) are spaced 16 in. OC, the insulation shall be a max of 3-1j2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diarn galv steel wires attached to the wood trusses at 12 in. *OC.* When the resilient channels (Item 5) or furring channels (Item 5B) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 5A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane.

4A. Loose Fill Material* – As an alternate to Item 5, when the resilient channels (Item 5) or furring channels (Item 56) are spaced a rnax of 12 in. OC or when the Steel Framing Members (Item 5A) are used - Any loose fill material bearing the UL Classification Marking For Surface Burning Characteristics. There is no limit in the overall thickness of insulation.

5. **Resilient Channels** – Nom 1/2 In. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel. Installed perpendicular to the wood joists, spaced a max of 24 in. OC when no insulation is Rtted in the concealed space. Otherwise, the spacing shall be as specified under Item 4 or 4A. Two courses of resilient channel positioned 6 in. OC at gypsum panel butt-joints (3 in. from each end of panel). Channels oriented opposite at panel butt-joints. Channei splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

SA. Alternate Steel Framing Members – (Not Shown) - As an alternate to Item 5, main runners, cross tees, cross channels and wall angle as listed below.

a. **Main Runners** – Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of joists at least 5 in. above the bottom face.

b. **Cross Tees** – Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum panel end joints.

The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels** — Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw attachment of the gypsum panels.

CGC INC — Type DGL or RX.

USG INTERIORS INC Type DGL or RX.

5B. **Alternate Steel Framing Members** — (Not Shown)* — As an alternate to Items 5 and 5A, furring channels and Steel Framing Members as described below.

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, installed perpendicular to the wood joists, spaced a max of 24 in. OC when no insulation is fitted in the concealed space. Otherwise, the spacing shall be as specified under Item 4 or 4A. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips secured to consecutive joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction-fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum panel butt joints, as described in Item 8.

PAC INTERNATIONAL INC — Type RSIC-1.

6. **Gypsum Board*** — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Items 5) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 5B) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panels. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one RSIC-1 clip at each end of the channel. When Steel Framing Members (Item 5A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long Type S bugle-head steel screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels staggered on adjacent panels not less than 12 in.

CANADIAN GYPSUM COMPANY Types C, IP X2, IPC AR.

UNITED STATES GYPSUM CO — Types C, IP X2, IPC AR.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

7. **Battens** — Nom 6 by 22-1/2 by 5/8 in. thick pieces of gypsum board (Item 6) centered under subfloor joints and fastened with staples spaced 7 in. OC along each edge. Staples formed of 16 SWG (0.062 in. thick) steel with 1-1/8 in. legs and 1/2 in. crown, driven flush with gypsum board batten strips. The battens and staples are optional when the finish flooring consists of **Floor Topping Mixture*.**

8. **Finishing System** — (Not shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom **3/32** in. thick veneer plaster may be applied to the entire surface of gypsum panels.

*Bearing the UL Classification Mark

Last Updated on 2005-04-15

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