## **Development Services**

### From Concept to Construction

Phone: 503-823-7300 Email: bds@portlandoregon.gov 1900 SW 4th Ave, Portland, OR 97201 More Contact Info (http://www.portlandoregon.gov//bds/article/519984)

Status: Decision Rend	ered		
Appeal ID: 25043		Project Address: 5211 NE 148th Ave	
Hearing Date: 8/11/21		Appellant Name: Melissa Meiners	
Case No.: B-002		Appellant Phone: (503) 708-2157	
Appeal Type: Building		Plans Examiner/Inspector: Brian McCall, Anne Schmidt	
Project Type: commerce	sial	Stories: 2 Occupancy: F-1, S-1, S-2 Construction Type: V-B	
Building/Business Na	me: Level Beer	Fire Sprinklers: No	
Appeal Involves: Altera	ation of an existing structure	LUR or Permit Application No.: 20-194410-CO	
Plan Submitted Option [File 4] [File 5] [File APPEAL INFORMA	n: pdf [File 1] [File 2] [File 3] 6] [File 7] TION SHEET	Proposed use: Brewery, Storage	
Appeal item 1			
Code Section	705.5		
Requires	The required fire-resistance rating of exterior walls with a fire separation distance of less than or equal to 10 feet shall be rated for exposure to fire from both sides.		
Code Modification or Alternate Requested	Allow the use of intumescent paint on exterior wood siding to provide equivalent 1-hour fire protection in lieu of type 'X' gypsum sheathing on the exterior side of the assembly.		
Proposed Design	The proposed alterations for this per the building. The building is located portion of the exterior wall is require rated from both sides.	rmit are for a 2nd story addition to the warehouse portion of less than 10 feet from the south property line at this area. This ed to be 1-hour fire-resistance rated per Tables 601 & 602 and	
	The existing south exterior wall at th (T1-11) over (2) layers fire-rated gy	ne first story was constructed previously with wood panel siding psum sheathing over (1) layer wood structural sheathing.	
	The new portion of the south exterior installed over 1/2" wood structural s The T1-11 is intended to be the final side of this wall will have (1) layer T	or wall at the 2nd story had (1) layer of T-11 wood siding panels heathing on the wood framing without fire-rated gypsum board I exterior finish to match the rest of the building. The interior ype 'X' gypsum board installed.	
Reason for alternative	The new portion of the south exterior installed over 1/2" wood structural s as was originally detailed in the app exposed exterior finish.	or wall at the 2nd story had (1) layer of T-11 wood siding panels theathing on the wood framing without fire-rated gypsum board proved permit plans. The T1-11 is intended to be the final	
	Per OSSC Section 104.10, an altern building official finds that the propos	native method of construction shall be approved where the sed design is satisfactory and complies with the intent of the	



## Appeals | The City of Portland, Oregon

provisions of the code, and that the material, method or work offered is, for the purposes intended, not less than equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

The applicant proposes an alternative method of construction that provides equivalent fire resistance in lieu of the listed, tested assembly as originally detailed in the approved permit plans. The proposal is to use Shield Industries Inc. ForceField FireGuard E-84 intumescent paint for wood on the exterior wood siding. (1) layer 5/8" Type 'X' gypsum board will still be installed at the interior side of this assembly.

As outlined in Evaluation Report 442, section 4.2, ForceField FireGuard E-84 is permitted to be used as a component of a fire-resistance rated assembly in accordance with IBC(OSSC) section 703.2, based on testing in accordance with ASTM E119 or UL 263. The Shield Industries, Inc. product data sheet for the ForceField FireGuard E-84 Intumescent Paint states it is an intumescent coating designed for the fire protection of gypsum and wood.

A 2-hour fire test (Report No. GL 115511) provides evidence that a fire-resistance rating utilizing the FireGuard E-84 intumescent coating can achieve the required fire-protection when applied directly to a 1/2" (7/16") wood substrate. The main differences between this fire test (Report No. GL 115511) and the assembly proposed in this application is that we're trying to achieve a 1-hour fire-resistance rating, not 2-hours. The proposed assembly would have (1) layer 5/8" Type 'X' gypsum board installed to provide a 40 minute fire-resistance rating per Table 722.6.2(1) from the interior. The intumescent coating would be applied on the exterior wood siding with the required thickness to achieve a 1-hour fire-resistance overall assembly rating, as outlined in Evaluation Report 442.

The applicant requests that FireGuard E-84 intumescent coating installed on the exterior wood siding be allowed in lieu of the (1) layer of 5/8" Type 'X' gypsum board, meeting the requirements of the 1-hour exterior wall to be rated from both sides, meeting the requirements of Sections 104.10 & 705.5.

#### APPEAL DECISION

Alternate 1 hour fire rated exterior wall assembly with use of intumescent paint on exterior wood siding in lieu of type 'X' gypsum sheathing: Denied. Proposal does not provide equivalent Life Safety protection.

Appellant may contact John Butler (503 865-6427) or e-mail at John.Butler@portlandoregon.gov with questions.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 90 calendar days of the date this decision is published. For information on the appeals process, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

### **Melissa Meiners**

From:	Kevin Hawlk <khawlk@shieldindustries.com></khawlk@shieldindustries.com>
Sent:	Thursday, July 29, 2021 12:09 PM
То:	Melissa Meiners
Subject:	FireGuard E-84 Intumescent Coating
Attachments:	W-11 - 2 Hour .75 Plywood Wall.pdf; W-13 - 2 Hour Wood Exterior Wall Assembly.pdf;
	EER 55314 - 1 Hour Exterior Hardi Plank.pdf; GL 61011 - 1 Hour Interior Wall 10mil.pdf;
	GL 115511 plywood wall .75 inch 2 hr.pdf; GL 115711 2 hr top coated 25 mil.pdf;
	Standard Certification.pdf; ANSI Certificate of Accre.pdf; GuardianFireCert-12-1-14.pdf;
	Guardian-Fire-Testing-Laboratories-Inc-Cert-and-Scope-File-12-21-2018_
	1545404919.pdf; er_0442-2021.pdf; TDS FireGuard Z-1.pdf

Melissa,

Thank you for taking some time this afternoon to talk with me, per our conversation you are interested in providing additional fire protection to the wall of an existing constructed exterior wall assembly. Attached you will find a few third party assembly designs and testing reports for the submittal process through the local AHJ, it is required to get the material approved through the local building official prior to purchase and installation as the material is a life safety product.

Please note that none of the assembly designs directly match your proposed application, but it is our hopes that they show with significate evidence the ability of our material to extend the fire resistance of assemblies the material is applied to.

When utilizing FireGuard E-84<sup>®</sup> Intumescent Coating in an exterior fashion, the mil thickness requirement must be increased by 10 mil dry on top of the required mil thickness for the specific rating desired. This is to help the coating maintain a lasting life in the exterior elements.

#### Application Guideline

#### Exterior

- Application area must be protected from the exterior elements at all times during the application until the final finish is fully installed
- Structure and surface must be properly prepared in accordance with the primer manufacture specifications
- FireGuard E-84<sup>®</sup> Intumescent Coating must be installed the specified and approved application thicknesses for the intended application area 34 mils dry (25.47 SQFT/GAL)
  - o Typical Coat Weight
    - Airless Spray Rig min. 2000psi (.19-.21 mil tip) 20-25 mils wet (10-13.5 Mils Dry)
      - 24 Hours between each coat
      - Each coat will be built up in several light weight passes to build to the final wet thickness of 20 -25 mils wet, attempting to accelerate this process will cause the material to sag and slide leaving areas will too high of an application thickness as well as areas with too low of application thickness.
    - Roller/ Brush Heavy nap roller 5 -10 mils wet Max (2.7 5.4 Mils Dry)
      - Typical application with a roller or brush can have 2 coats per day
- FireGuard Z-1 Tie Coating (350 SQFT/GAL)

- FireGuard Z-1 Tie Coating is designed to seal the intumescent coating so a continuous barrier is required, this can be achieved with a single coat using an airless sprayer with a .13 mil tip or with multiple coats of a roller/ brush.
- FireGuard Z-1 Tie Coating bust be allowed to cure for 4-5 days prior to applying the final exterior grade finish.

Kevin M. Hawlk Director - Business Development Manager & Technical Services Shield Industries Inc. (800) 332-6327 - (770) 517-6869 - Fax (770) 517-6863

## Shield Industries, Inc.

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From: Kevin Hawlk Sent: Friday, July 23, 2021 2:33 PM To: Melissa@koblecreative.com Subject: FireGuard E-84 Intumescent Coating

#### Melissa

Thank you for your inquiry, life safety materials like the FireGuard E-84<sup>®</sup> Intumescent Coating are tested in what is referred to as assembly based designs under ASTM E-119 conditions, these designs represent a minimum bases required in the assembly construction to achieve the desired 1 and 2 hour ratings. In our testing reports which I have attached to this email our minimum based assembly is a .5" gypsum wall assembly which consists of .5" gypsum on both sides of the wall assembly, this is then treated with a specific thickness of the FireGuard E-84<sup>®</sup> Intumescent Coating, the application and protection of the intumescent coating is directional so if the wall requires the rating on both sides the application would need to be on both sides of the wall assembly. Our testing and supporting documentation also takes into account if you wish to finish over the intumescent coating i.e. topcoat. If you wish to change the aesthetics of the material by top coating there will be a different application thickness required as well as the use of our tie coating material FireGuard Z-1.

- TDS for applications on Wood
- FireGuard Z-1 Tie-Coat TDS (Required when top coating the FireGuard E-84<sup>®</sup> Intumescent Coating)
- W-1 1 Hour Non- Top Coated Wall Assembly Drawing
  - Required dry film thickness 10 Mil dry Application 86.6 SQFT / GAL
- W-12 –1 Hour Top Coated Gypsum Wall Assembly Drawing
  - Required dry film thickness 19 Mil Dry Application 45.57 SQFT/GAL
- EER 35313 1 Hour Top Coated Gypsum Wall Evaluation Report

- ASTM E-119 1 Hour Non-Top Coated Gypsum Wall Assembly Testing Report GL 61011
- ASTM E-119 2 Hour Top Coated Gypsum Wall Assembly Testing Report GL 115711
- Listing Certificate
- Guardian Fire Laboratories Accreditation
- IAPMO ES Report

### Application Guideline

- Application area must be protected from the exterior elements at all times during the application until the final finish is fully installed
- Structure and surface must be properly prepared in accordance with the primer manufacture specifications
- FireGuard E-84<sup>®</sup> Intumescent Coating must be installed the specified and approved application thicknesses for the intended application area
  - o Typical Coat Weight
    - Airless Spray Rig min. 2000psi (.19-.21 mil tip) 20-25 mils wet (10-13.5 Mils Dry)
      - 24 Hours between each coat
      - Each coat will be built up in several light weight passes to build to the final wet thickness of 20 -25 mils wet, attempting to accelerate this process will cause the material to sag and slide leaving areas will too high of an application thickness as well as areas with too low of application thickness.
    - Roller/ Brush Heavy nap roller 5 -10 mils wet Max (2.7 5.4 Mils Dry)
    - Typical application with a roller or brush can have 2 coats per day
- FireGuard Z-1 Tie Coating (350 SQFT/GAL)
  - FireGuard Z-1 Tie Coating is designed to seal the intumescent coating so a continuous barrier is required, this can be achieved with a single coat using a airless sprayer with a .13 mil tip or with multiple coats of a roller/ brush.
  - FireGuard Z-1 Tie Coating bust be allowed to cure for 4-5 days prior to applying the final finish.

Please feel free to contact me with any further questions.

Kevin M. Hawlk Director - Business Development Manager & Technical Services Shield Industries Inc. (800) 332-6327 - (770) 517-6869 - Fax (770) 517-6863

## Shield Industries, Inc.

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# **GUARDIAN FIRE TESTING LABORATORIES, INC. Product Certification**

Accredited to ISO 17025, ISO 17020 & Guide 65 Through ANSI/ASQ/ANAB/ACLASS

# **Shield Industries, Inc.**

131 Smokehill Lane, Woodstock, GA 30188

# **ForceField® FIREGUARD E-84® Intumescent Coating**

**Standards Tested To: ASTM E-119;** 

**ASTM E-84 Extended Time (ASTM E-2768)** 

Guardian Test Report #s: GL 47510; 60911; 61011; 71011; 71611; 88211; 88311-A; 88411; 115311; 115411;115511; 115611; 115711; 58812; 58912.

(The test reports cover results when coating is applied to different categories of substrates. Application instructions are shown on product label.) Guardian Report #s: EER 66112-October 29, 2012; EER 68612-November 15, 2012; EER 77812-December 6, 2012; EER 16714 rev. January 24, 2014



Administrator

Certifying Product Reliability Against Fire

**Updated: 2/1/14** 



# ForceField<sup>®</sup> FireGuard E-84<sup>®</sup> **Intumescent Paint** For Gypsum/ Wood/ OSB

### **Application Conditions**

Generic Type	Water-based intumescent coating designed for the fire protection of gypsum and wood.
Description	Thin film intumescent coating that creates a fire retardant and fire resistant barrier on a wide range of building surfaces including gypsum, wood, and steel (see tech data sheet for steel).
	Listed and certified by Guardian Fire Test Laboratories Inc.
Features	-ASTM E-119 ASTM E-84 Tested -Decorative Finish- Gives a smooth decorative finish. -Can be top-coated to color choice. -Can be brushed on, rolled on, or sprayed on -Durable finish- Provides a hard, impact and abrasion resistant surface -Topcoat finishes smooth -Thin film coating- space saving footprints -Low VOC content -LEED compliant
Color	White
Finish	Smooth
Primers	Can be used as a finished coat or a primer.
Topcoats	For interior space a topcoat is optional. For exterior applications the material must be top coated with an impermeable exterior coating. The choice of topcoat will depend on project requirements and mil thickness of intumescent coating. FireGuard E-84 <sup>®</sup> Intumescent Coating must be allowed to cure for 4-5 days prior to the application of a topcoat. Application must be protected from the elements until topcoat is in place. When applying a top coat, dry mil applications thickness to achieve a desired rating may change.
Wet Film Thickness	Up to 25 - 30 mils per coat
Dry Film Thickness	Up to 13.5 – 16.2 mils per coat
Solids Content	By volume 54%
Coverage rate	866ft <sup>2</sup> /Gal at 1mil 86ft <sup>2</sup> /Gal at 10mil 28.9ft <sup>2</sup> /Gal at 30mil Allow for loss in mixing and application.
VOC Content	3.6 g/l
Limitations	Not for use on exterior environments or for interior steelwork that will be exposed to freeze/thaw cycling or long-term surface temperatures over 140°F (60°C) in normal use without the use of a suitable topcoat.
March 2015.	

#### **Substrates & Surface Preparation**

General

Prior to application surfaces need to be cleaned by removing
all oil, grease or any loose particles that may interfere with
the bond of ForceField <sup>®</sup> FireGuard <sup>®</sup> . It is highly
recommended to prime drywall substrates before the
application of FireGuard E-84 <sup>®</sup> .
On wood substrates where the wood is extremely old and
dried out, it will be necessary to scrape off any old flaking off
paint (if painted) and prime the surface before the
application of FireGuard E-84 <sup>®</sup> .

Performance Data	
Standards Tested To	Results
ASTM 2768 / ASTM E-84 30 min Extended	Flame Spread- 0 Smoke Index- 5
ASTM E-84	
ASTM E-119	1 & 2 Hour on gypsum and wood
UL 263	wall and floor/ceiling assemblies
NFPA 251	
ULC-S-101	

Mixing & Thinning		
Mixer	Use $\frac{1}{2}$ " electric or air driven drill with a slotted paddle mixer (300rpm under load).	
Mixing	Fireguard <sup>®</sup> must be mixed using a ½" electric or air driven drill with a slotted paddle or jiffy mixer blade. Mix material for a minimum of 5 minutes to achieve the necessary texture required before spraying.	
Thinning	Do not thin.	
Tinting	Do not tint.	

### **Application Procedures**

	Brushed or Rolled	Generally creates an 11 to 12 mil wet application. Multiple coats will be required to meet specifications to the job requirements. Allow each coat to completely dry to touch before applying next coat.
interior steelwork or long-term normal use	Airless Spray	A single coat, built up with a number of quick passes, allows greater control over quantities, thickness and finish. In most conditions, it is advantageous to apply two thin coats rather than one thick coat

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#### **Application Procedures**

Application Rates	At an ambient tempe following application 25 – 30 mils per coat 24 hour recoat time b 1 coat per day *Fireguard can be rec has a shore D hardness	rature of 70°F (21°C), the rates are applicable: (wet) between coats coated when previous coat s of 50 measured at 70°F (21°C)
Wet Film Thickness	Frequent thickness m gauge are recommen process to ensure uni	neasurements with a wet film ided during the application iform thickness
Dry Film Thickness	Final thickness can be electronic dry film thi or equivalent may be to 54%.	e measured using an ickness gauge. Positector 200 used. Wet mil thickness dries (i.e. 20mil wet = 10.6mil dry)

#### **Application Equipment Guidelines**

Listed below are general equipment guidelines for the application of this product when spray applied.

Airless Spray	Airlessco LP540 or equivalent
Spray Gun	Standard airless spray gun
Spray Tips	0.019"- 0.021"
Fan Size	4"-10" (depending on section being sprayed)
Hose Length	150' (45m)
Material Hose	3/8" (9.25mm) I.D. minimum
Whip Hose	¼" (6.35 mm) I.D minimum (optional)

#### **Application Conditions**

Condition	Material	Surface	Ambient	Humidity	
Minimum	70°F (21°C)	50°F (10°C)	50°F (10°C)	0%	
Maximum	100°F (38°C)	125°F (52°C)	110°F (43°C)	85%	

Fireguard must be protected from exposure to weather. Protect from freezing.

#### **Curing Schedule**

Surface Temp. & 50 % Relative Humidity	Dry to Recoat
77°F (25°C)	24 Hours

\*It is recommended to apply one per day. Drying time will vary with temp. Thinner coats as well as air movement will help drying time. Another coat of Fireguard<sup>®</sup> can be applied when previous coat has a Shore D hardness of 50 measured at 70°F (21°C). It can be top coated when a hardness of 60 is achieved after 4-5 day cure time.

#### May 2015

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#### **Cleanup & Safety**

Cleanup	Pump, Gun, Tips, Hoses, and Mixers should be cleaned once per day with clean water.
Safety	It is recommended protective equipment should be worn when applying Fireguard <sup>®</sup> , including spray suits, eye protection, gloves, and respirators. Refer to Fireguard <sup>®</sup> Material Safety Data Sheet.
Ventilation	Ventilation should not be less than 4 complete air exchanges per hour until the material is dry.

#### Maintenance

General

If coating becomes damaged, rebuild required thickness by spray, brush or roll. When dry, smooth and finish with topcoat to match. Damaged areas must be abraded back to a firm edge by sanding or scraping. The topcoat should be abraded back 1" (25.4 mm) from the damaged area. The surface must be clean and dry before applying Fireguard E-84<sup>®</sup>.

#### **Testing/ Certifications**

Uncertainty Measurement in Guardian's fire testing is less than 1% as per ASTM E 2536-06.

Guardian is accredited and meets the requirements of ISO/IEC 17025 as verified by ANSI/ASQ National Accreditation Board/ A CLASS. Refer to certificate and scope of accreditation report AT1247. Guardian also is accredited as an inspection agency per ISO 17020 through ANSI/ASQ National Accreditation Board/ ACLASS, Report 1547.

N.B.: ANSI/ASQ/ACLASS is a signatory member of the International Laboratory Accreditation Cooperation's (ILAC) Mutual Recognition Arrangement (MRA).

ANSI/ASQ/ACLASS accreditation of Guardian ensures global recognition for Guardian's services.

#### Storage, Packaging & Handeling

1 year from production date *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in unopened original container.
approximately 12 lbs. per gallon (1.44 kg/l)
Store indoors in a dry environment between 33°F-100°F (1°C - 38°C). Protect from freezing.

Packaging



VICINITY MAP







STREET TREE ACTIVITY IS NOT APPROVED AS PART OF THIS PERMIT. ADDITIONAL PERMITS ARE REQUIRED PRIOR TO PRUNING, REMOVING, OR PLANTING STREET TREES. CALL 823-8733 FOR MORE INFORMATION.

#### **Address** Address2

Property ID Tax Roll

Use Lot County State ID New State ID Alt Account Number Map Number

R318541 SECTION 24 1N 2E, TL 500 2.59 ACRES DEFERRAL-POTENTIAL ADDITIONAL TAX WHSE SHOWROOM TL 500 Multnomah 1N2E24B 500 1N2E24B -00500 R942240160 2545 OLD

5211 NE 148TH AVE

PORTLAND, OR 97230

### SCOPE OF WORK:

ADD 2ND LEVEL TO EXISTING SINGLE LEVEL BUILDING. NEW LEVEL WILL BE USED FOR EMPTY BEER CANS AND KEGS AND WILL **NOT** CONTAIN STORAGE RACKS. NO CHANGE TO EXISTING IMPERVIOUS AREAS, NO CHANGE TO BUILDING COVERAGE. NO CHANGE TO EXISTING STORMWATER DISPOAL SYSTEM. NO EXTERIOR SITE WORK PROPOSED.

#### SITE INFORMATION I OT AREA.

LOT AREA:	114,011 S.F.
ROOF AREA:	12,973 S.F.
BUILDING FOOTPRINT:	11,855 S.F.
IMPERVIOUS SITE AREA:	40,719 S.F.
LANDSCAPE AREA:	61,437 S.F.

#### SITE SUMMARY I OT:

LOT:	TL 500
ZONING:	IG2 / GENERAL INDUSTRIAL 2
MAP:	2545
OVERLAY:	c / ENVIRONMENTAL CONSERVATION
	h / AIRCRAFT LANDING OVERLAY
	x / PDX NOISE IMPACT ZONE
PLAN DISTRIC:	SS - COLUMBIA SOUTH SHORE
USE CATEGORY:	RETAIL SALES AND SERVICE
PROPERTY ID:	R318541

## **SEPARATE PERMITS:**

ELECTRICAL PERMITS, PLUMBING PERMITS, HVAC PERMITS

#### DEFERRED SUBMITTALS HANDRAILS & GUARDRAILS

**RELEVANT PERMIT NUMBERS:** 16-285457-CO (SHELL PERMIT) 18-258006-CO

BUILDING IS CURRENTLY FULLY COMPLIANT, SUCH THAT NO ACCESSIBILITY UPGRADES CAN BE DONE.



WATER KEYNOTE:

## **Premises-Isolation Backflow Protection** Required by Water Quality Backflow (WQBF) Review

Water Bureau Backflow Assembly Installation Requirements: www.portlandoregon.gov/water/backflowinstallationrequirements Title 21.12.320, 28.08.020 and/or OAR 333-061-0070, 333-061-0071 Plan Approved for Construction: Errors and Omissions Excepted.

**DOMESTIC WATER SERVICE:** Backflow Prevention Assemblies Must Conform to EPA Lead Free Requirements.

Reduced Pressure Backflow Assembly (RPBA) Required.

**RPBA** is to be installed 12" above finished grade in a prefabricated insulated outdoor enclosure atop of a 4" thick concrete pad. All exposed piping inside the enclosure must be insulated with closed-cell foam pipe insulation.

Landscape irrigation point-of-connection (POC) to domestic plumbing system must occur downstream of the domestic water service premises-isolation (PI) backflow protection.

Installation of a premise-isolation backflow assembly will create a closed system and may result in problems associated with thermal expansion. Installer responsible for making provisions for thermal expansion.

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LLC

Architecture / koblecreative.o

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PERMIT SET © 2021

APPEAL



The General Contractor shall schedule a Firestopping Meeting with the Building Inspector and all Subcontractors that will be installing firestopping materials. Each Subcontractor will provide a list of Firestop

materials/assemblies which will be used, the type of penetrations where each material/assembly will be used; and the listing and approval information (i.e. UL, ICC or other approved report/listing numbers.) This information must be submitted to, and approved by, the Building Inspector prior to any installation."



![](_page_9_Figure_4.jpeg)

![](_page_9_Figure_5.jpeg)

6 TYPICAL DOOR ELEVATION 1 1/2" = 1'-0"

![](_page_9_Figure_7.jpeg)

![](_page_9_Figure_9.jpeg)

![](_page_9_Figure_10.jpeg)

![](_page_10_Figure_0.jpeg)

				(3) 8d	τοε Ναιι	
OREGON STRUCTURAL SPECIALTY CODE		BRIDGE TO JOIST	Γ	(2) 8d	TOE NAIL	
2. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING	THE PLANS AND SITE		TO JOIST	16d@16" O.C. 8d@6"	FACE NAIL	1
PRIOR TO THE START OF CONSTRUCTION.			LOON	8d @ 12	2"	NTERIOR
3. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER S	CALED DIMENSIONS	TOP PLATE TO JO	DIST M PLATE	(2)16d (4)8d	END NAIL	
1. REMOVE TOP SOIL AND ORGANIC MATERIAL FROM	THE BUILDING SITE,	DOUBLE STUDS		(4)80 16d@ 1	16" O.C. FACE NAI	
STOCKPILING ON SITE FOR FINAL GRADING IF POSSIBI	E.	DOUBLE TOP PL	ATE	16d@ 1	16" O.C. FACE NAI	L
2. FOOTINGS ARE TO BEAR ON UNDISTURBED LEVELS TO MAINTAIN THE REQUIRED DEPTH BELOW FINISH G	OIL, STEPPED AS REQUIRED	CONTINUOUS H	EADER (2 PC) D PLATE	16d@ 1 (3) 8d	16" O.C. EDGE NAI FACE NAI	L
3. ANY FILL UNDER GRADE SUPPORTED CONCRETE SL	ABS TO BE 4" THICK (MIN.)	CEILING JOIST LA	AP OVER PLATE	(3) 16d	FACE NAI	L
SAND COMPACTED TO 95%.		CEILING JOIST TO	D RAFTER	(3) 16d	FACE NAI	L
AT 25' O/C (MAX.) EACH WAY	DAYS WITH CONTROL JOINTS	COLLAR TIES (EA	CH END)	(3) 80 (6) 10d (U.N.O.)	FACE NAIL	
5. FINISH GRADES ARE TO REMAIN AT LEAST 6" BELO	W FINISH SIDING.	BUILD UP CORN	ER STUDS	16d @ 2	24" O.C. FACE NAI	L
FOUNDATIONS 1 CONCRETE - MIX AND 28 DAY STRENGTH OF CONCR	RETE	TOP PLATE AT IN	ITERSECTIONS	(2) 16d 2 BOWS - 16d @	FACE NAI	L
- BASEMENT WALLS & FOUNDATION		MULTIPLE LVL'S	(3 PLIES)	2 ROWS - 16d @ 2 ROWS - 16d @	© 12" O.C. STAGGERED © 12" O.C. STAGGER	ED
NOT EXPOSED TO WEATHER 25	DO PSI	MULTIPLE JOIST	S (UP TO 3)	2 ROWS	S - 16d @ 12" O.C.STAGGER	ED
- BASEMENT & INTERIOR SLABS ON GRADE: 25	DO PSI	1x6 SPACED SHE RAFTERS TO HIP	ATHING S. VALLEY OR RID	(2) 8d IGE (4) 16d	FACE NAI	L
- BASEMENT WALLS & FOUNDATIONS		FOUNDATIONS	-,	(')		
EXPOSED TO WEATHER	ופס מר	1. WOOD FRAM	ING MEMBER GR	ADES ARE AS FOI	LLOWS UNLESS, OTHERWISE	E NOTED ON THE
-PORCHES, STEPS & CARPORT	JU P31	DRAWINGS:				
SLABS EXPOSED TO WEATHER: 30	DO PSI	B. PLATES, BLO	CKING AND BRID	SIS AND RAFIER.	NO. 3 HEM FIR	LVL 3 - 2000 FD
2. ALL REINFORCING STEEL TO BE A-615 GRADE 60. W A-185.	ELDED WIRE MESH TO BE	C. STUDS -	<b>~</b>		STUD GRADE HEM FIR	
3. LAP ALL CONTINUOUS BARS 30 x DIA. (MIN.) PLACE	ALL REINFORCING AS PER	D. T&G DECKING	G - NG -		CD HEM FIR PLY. (32/16)	RADE HEM FIR
A.C.I. CODES & STANDARDS.		F. GLU-LAM -			24-F V-4	
5. COVER ENTIRE CRAWL SPACE WITH 6 MIL. BLACK "	VISQUEEN" AND EXTEND UP	2. UNLESS OTHE	ERWISE NOTED O	N DRAWINGS, AI	LL EXTERIOR WINDOW AND	DOOR HEADERS
FOUNDATION WALLS AND FASTEN TO MUD SILL		3. PROVIDE DOU	R NO. 1 IBLE JOISTS UNDI	ER ALL BEARING I	PARTITIONS.	
6. PROVIDE A MINIMUM OF 1 S.F. OF NET VENTILATIO	N AREA FOR EACH 1500 S.F.	4. DESIGN LOAD	S: ROOF -	25 P.S.F	F. (LL)	
CORROSIVE RESISTANT SCREEN. POST NOTICE ABOUT	OPENING VENTS NEAR		FLOOR	- 40 P.S.F	F. (LL)	
ELECTRICAL PANEL.			GARAG	E FLOOR -50 P.S.F	F. (LL)	
7. ALL WOOD IN CONTACT WITH CONCRETE TO BE PR	ESSURE TREATED. ' AIR SPACE AT SIDES AND		DECKS -	40 P.S.F	F. (LL)	
ENDS AND 3" OF BEARING ( MIN.)		5. SOIL BEARING	i PRESSURE IS AS:	SUMED TO BE 15 BLF 25-0 11 B C	500 P.S.F. ΤΥΡΙCΑΙ ΡΙΥΜΟΩD ΝΑΙΙΙΝΙ	S WITH 84 NAU S
9. MUD SILLS TO BE 2x6 PRESSURE TREATED WOOD V	/ITH 1/2" DIA. x 10" ANCHOR	O/C AT EDGES A	ND 12" O.C. FIELI	D.	, TIFICAL FLIWOOD NAILING	J WITT OU WAILS
BOLIS SPACED 5-0" O/C, OR PER SHEAR WALL SCHED CORNERS. LAYOUT FOR 14' LONG 2x6 P T SILL PLATE	PROVIDE AB, EACH SIDE OF	7. DECK AND BA		AILS TO BE 36" HI	IGH WITH MAXIMUM OPENI	ING SPACES SO T
SILL SPLICES.	THOUSE AD. LACTISIDE OF	SPHERE CAN NO	T PASS THROUG	Η. ΔETER TIE DOWN	Νς ςμίζη ας α "ςιμρςών" η	2 5 ΤΟ ΕΔΟΗ ΒΔΕ
10. PROVIDE 4" DIA. PERFORATED DRAIN TILE BELOW	THE TOP OF FOOTINGS.	TOP PLATE.	11033 ANU K		UN H	
HASHING & MOISTURE PROTECTION 1. CONTRACTOR TO PROVIDE A "WATER TIGHT END O	SURE" FOR THE VALLEY	9. ALL EXTERIOR	FASTENERS, EXP	OSED TO THE ELI	EMENTS TO BE STAINLESS S	TEEL OR GALVAN
ENVIRONMENT, EMPLOYING THE HIGHEST QUALITY N	ATERIALS, CRAFTSMAN AND		, STAPLES, CLIPS	, ETC.		
CONSTRUCTION METHODOLOGY, BOTH GENERAL AN	D SPECIFIC TO THE VALLEY	1. ERECT SINGLE	LAYER 1/2" STAP	NDARD, 5/8" F.R.	. AND 1/2" MOISTURE RESIS	TANT GYPSUM B
2. ALL EXTERIOR FLASHING ARE TO BE CONSTRUCTED EXPOSED & 30 GAGE CONCEALED. BAKED ENAMEL	WITH MIN. GAGE 28	MOST ECONOM	ICAL DIRECTIONS	, WITH ENDS OC	CURRING OVER FIRM BACKI	NG.
3. FLASHING SHALL BE INSTALLED AT JUNCTIONS OF G	CHIMNEYS AND ROOFS, IN	ROOF COVERING	is is			
ROOF VALLEYS AND AROUND ALL ROOF OPENINGS, IT	ICLUDING SKYLIGHTS, ROOF	ASPHALT SHING	<u>25</u> LES SHALL BE USI	ED ONLY ON ROC	OF SLOPES OR 2/12 OR GREA	ATER. FOR ROOF
VENTS, ROOF EDGES BOTH RAKE AND EAVE.		FROM 2/12 TO 4	I/12, DOUBLE UN	IDERLAYMENT AF	PPLICATION IS REQUIRED.	
TRANSITIONS BETWEEN SIDING AND ROOF.	NOR DOORS AND WINDOWS,	DOORS				
5. ALL FLASHING TO BE INSTALLED PER "SMACNA" LA	TEST EDITION OF THE	1. ALL DOOR HA	ARDWARE SHALL AL DOOR ELEVAT	ION FOR DETAILS	/IENTS OF <i>ICC/ANSI A117.1-2</i> S.	2009 AND OSSC S
"ARCHITECTURAL SHEET METAL MANUAL".		2. FIRE RATED D	OORS MUST ME	ET THE REQUIRE	MENTS FOR A SMOKE AND [	ORAFT CONTROL
6. BUILDING WRAP OF TYVER OR SAME TO BE INSTA INSTRUCTIONS. INCLUDING WRAPPING WINDOW AN	DOOR OPENINGS AND	ASSEMBLY TEST	ED IN ACCORDAN	ICE WITH UL 178	4 PER OSSC 710.5.2.2.	
TAPING JOINTS.		3. ALL INTERIOR	STAIRWAY DOOF	RS SHALL BE OPE	NABLE FROM THE EGRESS S	IDE WITHOUT TH
7. FLASHING FOR WINDOWS: INSTALL ADHESIVE FLAS	HING THE WIDTH OF SILL	4. EACH NEW EX	IT DOOR SHALL F	AVE THE FOLLO	WING HARDWARE: HINGES,	ADA LEVEL PULL
FLASHING THE WIDTH OF HEAD AND LAP 12" DOWN	EACH JAMB. (DETAIL)	EXIT HARDWARE	E, CLOSER, DOOR	SWEEP, KICK PLA	ATE, AND SMOKE GASKETIN	G. PROVIDE A TH
		AND DRIP CAP A	T EXTERIOR LOCA	ATIONS.		
NAILING SCHEDULE:	POOE		POOL			
JOIST OR RAFTER TO TOP PLATE:	(3) 8d		TOE NAIL	2	GENERAL NOTES	
CEILING JOISTS TO PLATE:	(2) 8d		TOE NAIL	3	1/4" = 1'-0"	
CEILING JOIST LAP OVER PLATE:	(3) 10d		FACE NAIL		, -	
RAFTER TO TOP PLATE:	(6) 100 (2) 16d		FACE NAIL			
RAFTERS TO HIPS, VALLEY OR RIDGE:	(4) 16d		TOE NAIL			
CEILING JOIST TO RAFTER:	(-) · - ·		TOE NAIL TOE NAIL			
	(3) 16d		TOE NAIL TOE NAIL FACE NAIL			
	(3) 16d <u>WALLS</u> 10d @ 24" O C		TOE NAIL TOE NAIL FACE NAIL WALLS			
<u>WALLS</u> BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER):	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E	DGE	TOE NAIL TOE NAIL FACE NAIL WALLS			
<u>WALLS</u> BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC):	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d	DGE	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL			
WALLS BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC): CONT. HEADER TO STUD:	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C.	DGE	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL			
WALLS BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC): CONT. HEADER TO STUD: DOUBLE STUDS: DOUBLE TOP PLATE:	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C.	DGE	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FACE NAIL			
WALLS BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC): CONT. HEADER TO STUD: DOUBLE STUDS: DOUBLE TOP PLATE: DOUBLE TOP PLATE-	<ul> <li>(3) 16d</li> <li><u>WALLS</u></li> <li>10d @ 24" O.C.</li> <li>16d @ 16" O.C. ALONG EA. E</li> <li>(4) 8d</li> <li>10d@ 24" O.C.</li> <li>10d@ 24" O.C.</li> <li>(8)16d"</li> </ul>	DGE	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FACE NAIL IN LA	PPED AREA		
WALLS BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC): CONT. HEADER TO STUD: DOUBLE STUDS: DOUBLE TOP PLATE: DOUBLE TOP PLATE: (MIN. 24" OFFSET OF END JOISTS):	<ul> <li>(3) 16d</li> <li><u>WALLS</u></li> <li>10d @ 24" O.C.</li> <li>16d @ 16" O.C. ALONG EA. E</li> <li>(4) 8d</li> <li>10d@ 24" O.C.</li> <li>10d@ 24" O.C.</li> <li>(8)16d"</li> <li>16d</li> </ul>	DGE	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FACE NAIL IN LA FACE NAIL	PPED AREA		
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WALLS BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC): CONT. HEADER TO STUD: DOUBLE STUDS: DOUBLE TOP PLATE: DOUBLE TOP PLATE: (MIN. 24" OFFSET OF END JOISTS): SOLE PLATE TO JOIST, SOLID DECK OR BLOCKING: SOLE PLATE TO JOIST- SOLID DECK OR BLOCKING @ BRACED WALL PANELS: STUD TO SOLE PLATE: TOP OR SOLE PLATE TO STUD: TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS: 1" BRACE TO EA. STUD AND PLATE: 1"x6" SHEATHING TO EA. BEARING: 1"x8" SHEATHING TO EA. BEARING: WIDER THAN 1"x8" SHEATHING TO EA. BEARING: FLOORS JOIST TO SILL OR GIRDER	<ul> <li>(3) 16d</li> <li>WALLS</li> <li>10d @ 24" O.C.</li> <li>16d @ 16" O.C. ALONG EA. E</li> <li>(4) 8d</li> <li>10d@ 24" O.C.</li> <li>10d@ 24" O.C.</li> <li>(8)16d"</li> <li>16d</li> <li>(3) 16d PER 16"</li> <li>(3) 8d -OR- (2) 16d</li> <li>(2) 16d</li> <li>(2) 10d</li> <li>(2) 8d -OR- (2) STAPLES (1 3/-</li> <li>(2) 8d -OR- (2) STAPLES (1 3/-</li> <li>(3) 8d</li> <li>FLOORS</li> <li>(3) 8d</li> <li>(2) 8d -OR- 2 STAPLES</li> </ul>	DGE 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FACE NAIL FACE NAIL IN LA FACE NAIL FACE NAIL	PPED AREA	REFER TO SEP SUBMITTED DE FOR PROPOSE	ARATE TAIL D
WALLS BUILT-UP CORNER STUDS: BUILT-UP HEADER (2 PC W/ 1/2" SPACER): CONT. HEADER (2 PC): CONT. HEADER TO STUD: DOUBLE STUDS: DOUBLE TOP PLATE: DOUBLE TOP PLATE: (MIN. 24" OFFSET OF END JOISTS): SOLE PLATE TO JOIST, SOLID DECK OR BLOCKING: SOLE PLATE TO JOIST- SOLID DECK OR BLOCKING @ BRACED WALL PANELS: STUD TO SOLE PLATE: TOP OR SOLE PLATE TO STUD: TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS: 1" BRACE TO EA. STUD AND PLATE: 1"x6" SHEATHING TO EA. BEARING: 1"x8" SHEATHING TO EA. BEARING: WIDER THAN 1"x8" SHEATHING TO EA. BEARING: FLOORS JOIST TO SILL OR GIRDER 1"x6" SUBFLOOR OR LESS TO EA. JOIST	<ul> <li>(3) 16d</li> <li>WALLS</li> <li>10d @ 24" O.C.</li> <li>16d @ 16" O.C. ALONG EA. E</li> <li>(4) 8d</li> <li>10d@ 24" O.C.</li> <li>10d@ 24" O.C.</li> <li>10d@ 24" O.C.</li> <li>(8) 16d"</li> <li>(3) 16d PER 16"</li> <li>(3) 8d -OR- (2) 16d</li> <li>(2) 16d</li> <li>(2) 10d</li> <li>(2) 8d -OR- (2) STAPLES (1 3/-</li> <li>(2) 8d -OR- (2) STAPLES (1 3/-</li> <li>(2) 8d -OR- (2) STAPLES (1 3/-</li> <li>(3) 8d</li> <li>FLOORS</li> <li>(3) 8d</li> <li>(2) 16d</li> <li>(2) 16d</li> <li>(3) 8d</li> <li>(4) 8d -OR- 2 STAPLES</li> <li>(2) 16d</li> <li>(2) 16d</li> <li>(3) 16d</li> </ul>	DGE 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FACE NAIL FACE NAIL IND NAIL FACE NAIL	PPED AREA	REFER TO SEP SUBMITTED DE FOR PROPOSEI ASSEMBLY	ARATE TAIL D
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WALLS         BUILT-UP CORNER STUDS:         BUILT-UP HEADER (2 PC):         CONT. HEADER TO STUD:         DOUBLE STUDS:         DOUBLE TOP PLATE:         DOUBLE TOP PLATE:         MIN. 24" OFFSET OF END JOISTS):         SOLE PLATE TO JOIST, SOLID DECK OR BLOCKING:         SOLE PLATE TO JOIST-         SOLID DECK OR BLOCKING @ BRACED WALL PANELS:         STUD TO SOLE PLATE:         TOP OR SOLE PLATE TO STUD:         TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS:         1" BRACE TO EA. STUD AND PLATE:         1"x6" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         NIM JOIST TO TOP PLATE (ROOF APPLICATIONS ALSO)         2" PLANKS ( PLANK AND BEAMS (2" LUMBER LAYERS)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 13"         WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND <td>(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C. 10d@ 24" O.C. (8)16d" 16d (3) 16d PER 16" (3) 8d -OR- (2) 16d (2) 16d (2) 16d (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d <u>FLOORS</u> (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (2) 16d 8d @ 6" O.C. (2) 16d @ EA. BEARING 10d@ 32" O.C. @ TOP &amp; BTN 2 NAILS @ ENDS AND @ EA/- 2 ROWS - 16d @ 12" O.C. 2 ROWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4"X6" SDS SCREV</td> <td>DGE 4") 4") 4") 4") 4") 4") 4") 4") 4") 4")</td> <td>TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FAC</td> <td>ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP</td> <td>PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (6")</td> <td>ARATE TAIL D</td>	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C. 10d@ 24" O.C. (8)16d" 16d (3) 16d PER 16" (3) 8d -OR- (2) 16d (2) 16d (2) 16d (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d <u>FLOORS</u> (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (2) 16d 8d @ 6" O.C. (2) 16d @ EA. BEARING 10d@ 32" O.C. @ TOP & BTN 2 NAILS @ ENDS AND @ EA/- 2 ROWS - 16d @ 12" O.C. 2 ROWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4"X6" SDS SCREV	DGE 4") 4") 4") 4") 4") 4") 4") 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FAC	ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP	PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (6")	ARATE TAIL D
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WALLS         BUILT-UP CORNER STUDS:         BUILT-UP HEADER (2 PC)         CONT. HEADER TO STUD:         DOUBLE TOP PLATE:         DOUBLE TOP PLATE         (MIN. 24" OFFSET OF END JOISTS):         SOLE PLATE TO JOIST. SOLID DECK OR BLOCKING:         SOLE PLATE TO JOIST.         SOLID DECK OR BLOCKING @ BRACED WALL PANELS:         STUD TO SOLE PLATE:         TOP OR SOLE PLATE TO STUD:         TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS:         1" SRACE TO EA. STUD AND PLATE:         1"x6" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         "UDER THAN 1"x8" SHEATHING TO EA. BEARING:         FLOORS         JOIST TO SILL OR GIRDER         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         I''x6" SUBFLOOR OR LESS TO EA. JOIST         2" PLANKS (PLANK AND BEAM - FLOOR & ROOF)         BUILT-UP GIRDERS AND BEAMS (2" LUMBER LAYERS)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES)         MUDTIPLE LVL'S (4 PLIES)	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C. (8)16d" 16d (3) 16d PER 16" (3) 8d -OR- (2) 16d (2) 16d (2) 10d (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d <u>FLOORS</u> (3) 8d (2) 8d -OR- 2 STAPLES (2) 16d 8d @ 6" O.C. (2) 16d @ EA. BEARING 10d@ 32" O.C. @ TOP & BTN 2 NAILS @ ENDS AND @ EA/- 2 ROWS - 16d @ 12" O.C. 2 ROWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4"x6" SDS SCREV 2 ROWS - 16d @ 12" O.C. 2 ROWS - 16d @ 12" O.C. 2 ROWS - 16d @ 12" O.C. 2 ROWS - 16d @ 12" O.C. 1 MOWS - 1/4"x6" SDS SCREV 3 ROWS - 16d @ 12" O.C. 1 MOWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4"SCREWS 3 ROWS - 1/4" SCREWS 3 ROWS - 1/4" SCREWS 3 ROWS - 1/4" SCREWS	DGE 4") 4") 4") 4") 4") 4") 4") 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FAC	ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP	PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (6") PORTS (6") PORTS (6") PORTS (6")	ARATE TAIL D
WALLS         BUILT-UP CORNER STUDS:         BUILT-UP HEADER (2 PC W/ 1/2" SPACER):         CONT. HEADER (2 PC):         CONT. HEADER TO STUD:         DOUBLE TOP PLATE:         MIN. 24" OFFSET OF END JOISTS):         SOLE PLATE TO JOIST. SOLID DECK OR BLOCKING:         SOLE PLATE TO JOIST.         SOLID DECK OR BLOCKING @ BRACED WALL PANELS:         STUD TO SOLE PLATE:         TOP OR SOLE PLATE TO STUD:         TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS:         1" BRACE TO EA. STUD AND PLATE:         1"x6" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         "WIDER THAN 1"x8" SHEATHING TO EA. BEARING:         FLOORS         JOIST TO SILL OR GIRDER         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         RIM JOIST TO TOP PLATE (ROOF APPLICATIONS ALSO)         2" PLANKS (PLANK AND BEAM - FLOOR & ROOF)         BUILT-UP GIRDERS AND BEAMS (2" LUMBER LAYERS)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 12	(3) 16d <u>WALLS</u> 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C. (8)16d" 16d (3) 16d PER 16" (3) 8d -OR- (2) 16d (2) 16d (2) 10d (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d <u>FLOORS</u> (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- (2) STAPLE 16ga., 1 1 (3) 4" GALV. ROOFING NAIL, (1) CROWN STAPLE 16ga., 1 1 (1) 2, COWN STAPLE 16ga., 1 1 (1) 3/4" GALV. ROOFING NAIL, (1) 7/- "LONG; 1 1/4" SCREWS (3) 4/- "GALV. ROOFING NAIL, (1) 7/- "LONG; 1 5/8" SCREWS (3) 4/- "GALV. ROOFING NAIL, (4) 4/- "GALV. ROOFING NAIL, (5) 4/- "GALV. ROOFING NAIL, (5) 4/- "GALV. ROOFING NAIL, (1) 7/- "LONG; 1 1/4" SCREWS (3) 4/- "GALV. ROOFING NAIL, (4) 4/- "GALV. ROOFING NAIL, (5) 5/8" LONG; 1 5/8" SCREWS (3) 4/- "GALV. ROOFING NAIL, (4) 4/- "GALV. ROOFING NAIL, (5) 4/- "GA	DGE 4") 4") 4") 4") 4") 4") 4") 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FACE NAIL FACE NAIL FACE NAIL TOE NAIL FACE	ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP ERMEDIATE SUP	PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (6") PORTS (6") PORTS (6") PORTS (7")	ARATE TAIL D
WALLS         BUILT-UP CORNER STUDS:         BUILT-UP HEADER (2 PC W/ 1/2" SPACER):         CONT. HEADER TO STUD:         DOUBLE TOP PLATE:         DOUBLE TOP PLATE         (MIN. 24" OFFSET OF END JOISTS):         SOLE PLATE TO JOIST.         SOLID DECK OR BLOCKING @ BRACED WALL PANELS:         STUD TO SOLE PLATE:         TOP OR SOLE PLATE TO STUD:         TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS:         1" BRACE TO EA. STUD AND PLATE:         1"x6" SHEATHING TO EA. BEARING:         "WIDER THAN 1"x8" SHEATHING TO EA. BEARING:         FLOORS         JOIST TO SILL OR GIRDER         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         "IM JOIST TO TOP PLATE (ROOF APPLICATIONS ALSO)         2" PLANKS (PLANK AND BEAM - FLOOR & ROOF)         BUILT-UP GIRDERS AND BEAMS (2" LUMBER LAYERS)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (3 PLIES)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) SUBFLOOR, ROOF AND         INTERIOR WALL SHEATHING TO FRAMING AND PARTI<	(3) 16d WALLS 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C. 10d@ 24" O.C. (8)16d" 16d (3) 16d PER 16" (3) 8d -OR- (2) 16d (2) 16d (2) 10d (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d FLOORS (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (2) 16d @ EA. BEARING 10d@ 32" O.C. @ TOP & BTN 2 NAILS @ ENDS AND @ EA/- 2 ROWS - 16d @ 12" O.C. 2 ROWS - 16d @ 12" O.C. 2 ROWS - 16d @ 12" O.C. 2 ROWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4" SCREWS 0 CMMON NAIL 10 DEFORMED NAIL 11 1/2" GALV. ROOFING NAIL, 11 1/2" CALV. ROOFING NAIL, 13/4" GALV. ROOFING NAIL, 14 3/4" GALV. ROOFING NAIL, 15/8" LONG; 1 5/8" SCREWS OR UNDERLAYMENT TO FRAM 6 DEFORMED NAIL -OR- 8d	4") 4") 4") 4") 4") 4") 4") 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL WALLS TOE NAIL FACE NAIL FAC	ERMEDIATE SUP ERMEDIATE SUP	PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (6") PORTS (6") PORTS (6") PORTS (7") PORTS (7")	ARATE TAIL D
WALLS         BUILT-UP CORNER STUDS:         BUILT-UP HEADER (2 PC W/ 1/2" SPACER):         CONT. HEADER TO STUD:         DOUBLE STUDS:         DOUBLE TOP PLATE:         DOUBLE TOP PLATE:         DOUBLE TOP PLATE:         SOLE PLATE TO JOIST. SOLID DECK OR BLOCKING:         SOLE PLATE TO JOIST.         SOLID DECK OR BLOCKING @ BRACED WALL PANELS:         STUD TO SOLE PLATE:         TOP OR SOLE PLATE TO STUD:         TOP PLATES, LAPS @ CORNERS AND INTERSECTIONS:         1" BRACE TO EA. STUD AND PLATE:         1"x6" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         1"x8" SHEATHING TO EA. BEARING:         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         1"x6" SUBFLOOR OR LESS TO EA. JOIST         2" SUBFLOOR TO JOIST OR GIRDER         RIM JOIST TO TOP PLATE (ROOF APPLICATIONS ALSO)         2" PLANKS (PLANK AND BEAM - FLOOR & ROOF)         BUILT-UP GIRDERS AND BEAMS (2" LUMBER LAYERS)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (2 PLIES)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 12" DEPTH)         MULTIPLE LVL'S (4 PLIES) (UP TO 13" DEPTH)	(3) 16d WALLS 10d @ 24" O.C. 16d @ 16" O.C. ALONG EA. E (4) 8d 10d@ 24" O.C. 10d@ 24" O.C. 10d@ 24" O.C. (8)16d" 16d (3) 16d PER 16" (3) 8d -OR- (2) 16d (2) 16d (2) 10d (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d <u>FLOORS</u> (3) 8d (2) 8d -OR- (2) STAPLES (1 3/- (3) 8d (2) 8d -OR- 2 STAPLES (2) 16d 8d @ 6" O.C. (2) 16d @ EA. BEARING 10d@ 32" O.C. @ TOP & BTN 2 NAILS @ ENDS AND @ EA/- 2 ROWS - 16d @ 12" O.C. 2 ROWS - 16d @ 12" O.C. 2 ROWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4"x6" SDS SCREV 3 ROWS - 1/4"x6" SDS SCREV 2 ROWS - 16d @ 12" O.C. CLE BOARD WALL SHEATHING 6d COMMON NAIL (SUBFLOO 8d COMMON NAIL (SUBFLOO 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d DEFORMED NAIL 10d DEFORMED NAIL 10d OFING NAIL, 7/ 1" CROWN STAPLE 16ga., 1 1 1 1/2" GALV. ROOFING NAIL, 7/ 1" CROWN STAPLE 16ga., 1 1 1 1/2" GALV. ROOFING NAIL, 7/ 1" CROWN STAPLE 16ga., 1 1 1 1/2" GALV. ROOFING NAIL, 7/ 1" CROWN STAPLE 16ga., 1 1 1 1/2" GALV. ROOFING NAIL, 7/ 1 1/2" LONG; 1 1/4" SCREWS 1 3/4" GALV. ROOFING NAIL, 1 1 1/2" GALV. ROOFING NAIL, 1 1 1/2" SCREWS 1 3/4" GALV. ROOFING NAIL, 7/ 1 1/2" LONG; 1 1/4" SCREWS 1 3/4" GALV. ROOFING NAIL, 7/ 1 1/2" LONG; 1 5/8" SCREWS 1 3/4" GALV. ROOFING NAIL, 7/ 1 1 1/2" GALV. ROOFING NAIL, 1 1 1/2" COMMED NAIL -OR- 8d 8d DEFORMED NAIL -OR- 8d 8d DEFORMED NAIL -OR- 8d	DGE 4") 4") 4") 4") 4") 4") 4") 4") 4") 4")	TOE NAIL TOE NAIL FACE NAIL STAGGERED ST	ERMEDIATE SUP ERMEDIATE SUP	PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (12") PORTS (6") PORTS (6") PORTS (6") PORTS (6") PORTS (7") PORTS (7")	ARATE TAIL D

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