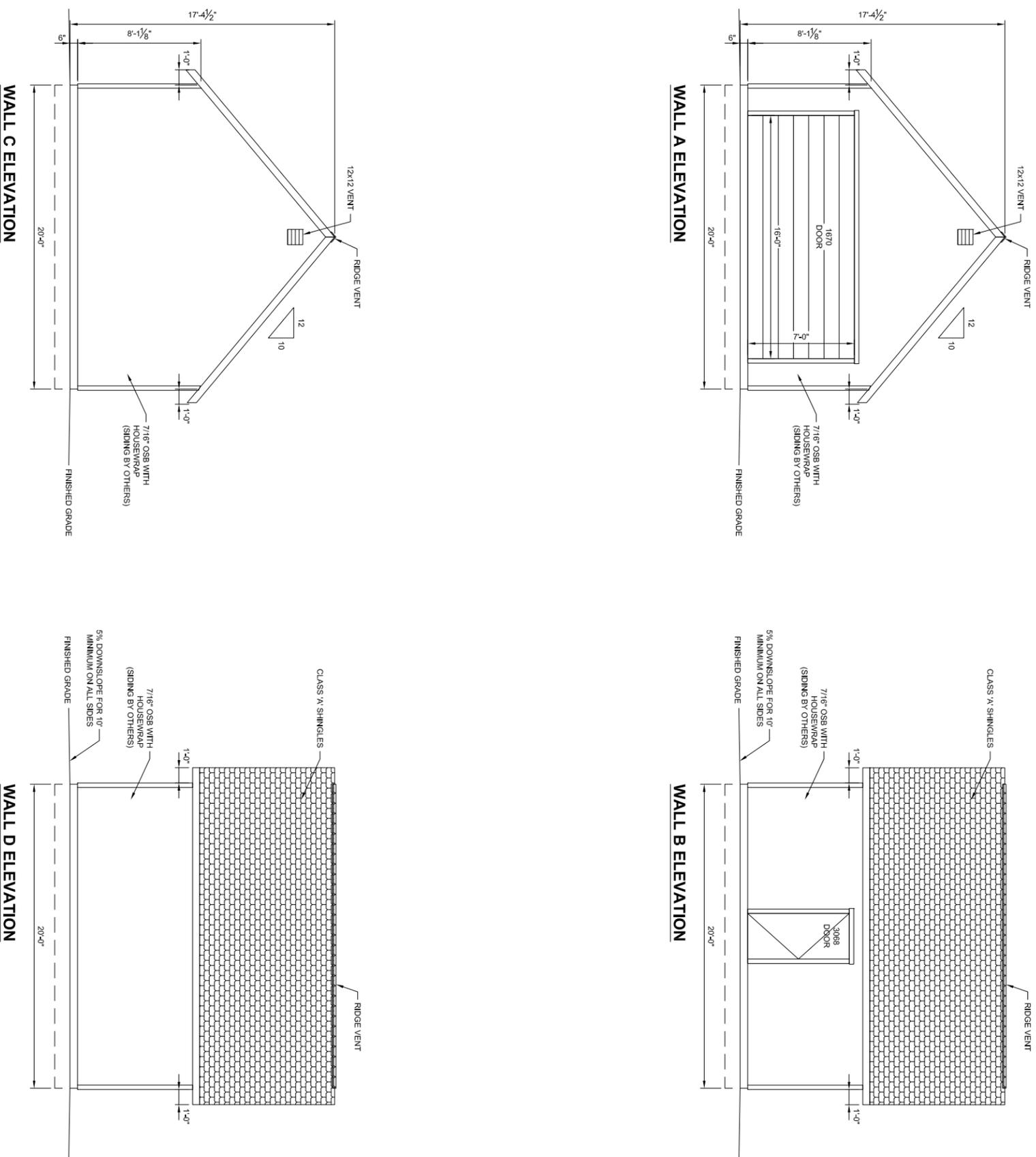


ACCESSORY BUILDING 20' X 20' = 400 SQ FT

DRAWING INDEX
S1 - PROJECT NOTES, ELEVATIONS
S2 - PLANS, SHEAR WALL SCHEDULE
S3 - SECTIONS, DETAILS

PROJECT NOTES

1. DESIGN REQUIREMENTS
A. FRAMING CODES: 2018 IRC
B. FOUNDATION CODES: 2018 IBC
C. CONSTRUCTION TYPE: V9
 2. DESIGN SCHEDULE
A. BUILDING SIZE
LENGTH: 20'-0"
SIDE WALL HEIGHT: 8'-1 1/8"
TOTAL HEIGHT: 17'-4 1/2"
B. BUILDING LOADS
ROOF DEAD LOAD: 30 PSF
ROOF WIND LOAD: 10 PSF
C. BASIC WIND SPEED: V, 135 MPH
D. SEISMIC DESIGN CATEGORY: C
E. SITE CLASS: D
F. ROOF PITCH: 12/12
 3. ROOFING SCHEDULE
A. ROOF SHEATHING SHALL BE APA RATED 7/16" THICK OSB WITH FOIL BACKING, STAGGER LAYOUT PER APA CONDITION 1.
B. P1 #24/16 MIN UNBLOCKED.
C. SHEATHING NAILING SHALL BE PER NAILING SCHEDULE.
D. 15 LB ROOFING FELT.
E. TYPE 'D' METAL DRIP EDGE FLASHING REQUIRED ALL SIDES.
F. TRUSSES SHALL BE SPACED @ 24" OC.
G. SEE SEPARATE TRUSS SHEETS FOR TRUSS FRAMING AND MATERIALS.
H. TRUSSES MUST BE BRACED ACCORDING TO THE LATEST EDITION OF THE BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI)
I. THE TRUSS CONNECTION PLATES ENGLE METAL PLATES.
J. THE TRUSS PLATE INSTITUTE (TPI) (NER DA 430) IS THE INSPECTION AGENCY RESPONSIBLE FOR IN-PLANT INSPECTIONS.
K. TRUSS MANUFACTURER: TUFF SHED, INC.
 4. WOOD FRAMING
A. ALL WALL FRAMING MEMBERS SHALL BE HEM-FIR (HF) STUD GRADE OR BETTER.
B. STUDS SHALL BE SPACED @ 16" OC.
C. FASTEN EXTERIOR WALL SHEATHING TO FRAMING PER NAILING SCHEDULE.
D. PROVIDE SOLID BLOCKING AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALL PANELS.
E. SHEAR WALL MATERIAL SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
F. SHEAR WALL NAILING SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
 5. SOIL
A. MIN. REQUIRED SOIL TYPE SHALL BE CLAY, SANDY CLAY, SILTY CLAY, OR CLAYEY SILT (CL, ML, MH & CH). PREScriptive ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN IS 1500 PSF AT 12" DEEP. VALUES ARE PER TABLE R401.4.1.
B. IN THE EVENT OF THE DISCOVERY OF EXPANSIVE SOILS, THE SERVICES OF A SOILS ENGINEER MAY BE REQUIRED.
C. ALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SOIL.
D. IN THE EVENT EXCAVATIONS REVEAL UNFAVORABLE CONDITIONS, THE SERVICES OF A SOILS ENGINEER MAY BE REQUIRED.
 6. PERMIT
A. PERMIT APPLICATIONS, WHERE NO PERMITS ISSUED, SHALL EXPIRE PER LIMITATIONS SET BY LOCAL CODES, SECTION R105.
B. JOB CARD REQUIRED TO BE AVAILABLE FOR SIGNATURE AT JOB SITE
- GENERAL NOTES**
1. GENERAL:
A. ERECTION PROCEDURES SHALL CONFORM TO OSHA STANDARDS.
B. BUILDER SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES, TREES, UTILITIES, ETC.
C. BUILDER IS RESPONSIBLE FOR SAFETY OF BUILDING DURING CONSTRUCTION. PROVIDE ALL SHORING OR BRACING AS REQUIRED AND WOOD CONSTRUCTION CONNECTIONS REFERENCED IN THIS DRAWING SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT INSTALLED PER MANUFACTURERS SPECIFICATIONS.
D. GREEN VINYL SINKER NAILS DO NOT MEET THE NAILING REQUIREMENTS OF COMMON WALLS.
 2. PLYWOOD DIAPHRAGMS
15/32" CDX PLYWOOD OR 7/16" OSB.
 3. MATERIAL EVALUATION REPORT IDENTIFICATION
A. TRUSS CONNECTION PLATES BY ENGLE METAL PLATES PER ENGLE SPEC SHEET #ESR-1842.
B. CLASS A SHINGLES BY US CORPORATION PER ICCES REPORT #ESR-1301.
C. HARDIPANEL SIDING BY JAMES HARDIE BUILDING PRODUCTS PER ICCES REPORT #ESR-1844.
D. HARDIPANEL LAP SIDING BY JAMES HARDIE BUILDING PRODUCTS PER ICCES REPORT #ESR-2290.
E. LAMINATED VENER LUMBER (LVL) BY WEVERHAUSER PER ICCES REPORT #ESR-1387.
F. CLASS A SHINGLES BY OWENS CORNING ROOFING PER UL REPORT #ER245342.
G. HDU PRE-DEFLECTED HOLD-DOWNS BY SIMPSON STRONG-TIE PER ICCES REPORT #ESR-2320.
H. CLASS A SHINGLES BY SIMPSON STRONG-TIE PER ICCES REPORT #ESR-2811.



PROJECT NOTES
ELEVATIONS
Scale: 1/4" = 1'-0"
Sheet:

Drawn By: PK
Date: 9/20/19
Checked By:
Date:
Revised:
Revised:
Title:

TUFF SHED
Storage Buildings & Garages
TUFF SHED, INC.
6500 NE HALSEY STREET, UNIT A
PORTLAND, OR 97213
(503) 288-8833
CONTRACTOR'S LICENSE #105914
COPYRIGHT © 2015 TUFF SHED, INC.
PROPRIETARY. ALL RIGHTS RESERVED. STORE 160

THESE DRAWINGS AND THE DESIGN ARE THE PROPERTY OF TUFF SHED, INC. THESE DRAWINGS ARE FOR A BUILDING TO BE SUPPLIED AND BUILT BY TUFF SHED ONLY. ANY OTHER USE IS FORBIDDEN BY TUFF SHED INC AND THE ENGINEER OF RECORD.

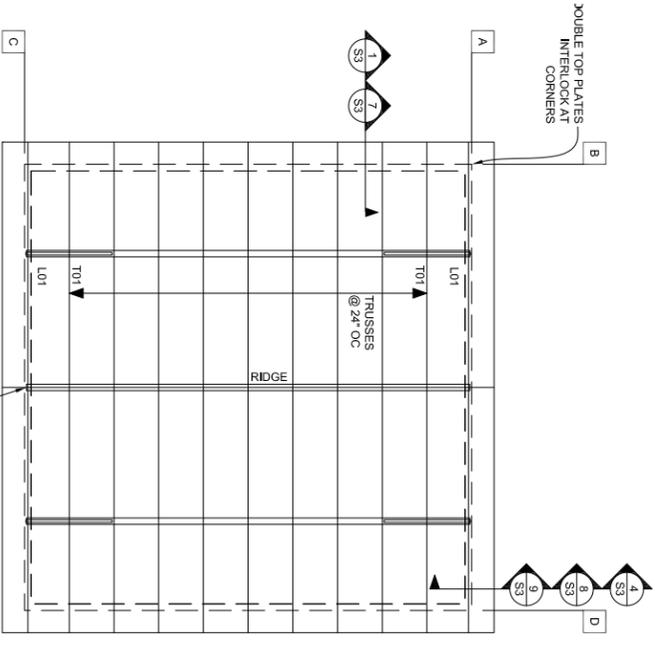
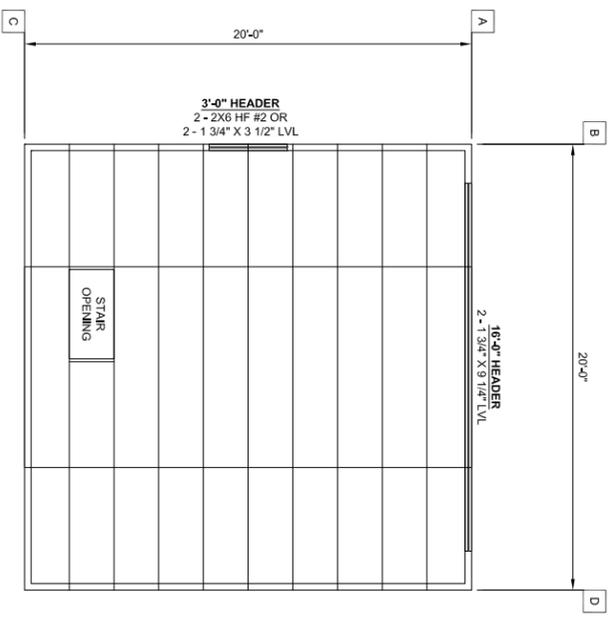
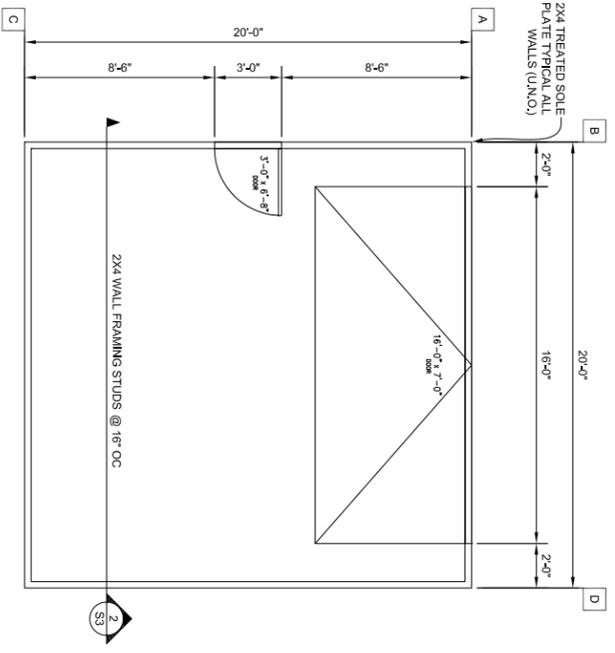
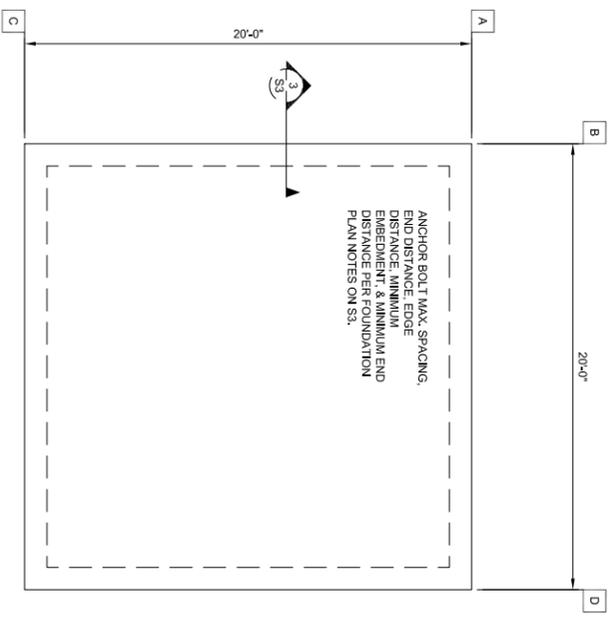
PO No. Inv No. 1415397
Customer: LAURA SWEARINGEN
Description:
ACCESSORY BUILDING
20' X 20' = 400 SQ FT
Site Address:
420 4TH ST
OREGON CITY, OR 97045

TUFF SHED, INC.
ENGINEERING DEPARTMENT
RICHARD J. WILLS, P.E.
RWILLS@TUFFSHED.COM
1777 S. HARRISON STREET
DENVER, COLORADO 80210
(303) 753-8833 EXT. 96315

NAILING SCHEDULE		SHEAR WALL SCHEDULE		SHEAR WALL SCHEDULE		
CHORD SPLICE NAILING: (4) - 16d (TOENAIL)	TRUSS BLOCKING: (4) - 16d (TOENAIL)	FRAMING NAILING: STUD TO TOP PLATE: 2-16d END NAIL STUD TO SILL PLATE: 2-16d END NAIL OR 4-8d TOENAIL DEL. HEADER: 16d @ 16" OC ALONG EACH EDGE HEADER TO KING STUD: 4-8d TOENAIL OR 4-16d END NAIL DOUBLE TOP PLATES: 16d @ 16" FACE NAIL	UNLESS SPECIFIED HEREIN, ALL NAILING SHALL BE PER 2018 IRC TABLE R602.3(1).	UP/LIFT TRANSFER: PROVIDE SIMPSON H2.5A AT EACH END OF TRUSSES.	PROVIDE 2X4 SOLID BLOCKING ON ALL UNSUPPORTED EDGES OF PLYWOOD ON SHEAR WALLS.	UNBLOCKED ROOF DIAPHRAGM ROOF SHEATHING NAILING: BORDER: 8d COMMON @ 6" OC EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC
2X4 FRAMING. SHEATH THE EXTERIOR WITH 7/16" OSB. 20'-0" LONG TOTAL. 0" USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	2X4 FRAMING. SHEATH THE EXTERIOR WITH 7/16" OSB. 20'-0" LONG TOTAL. 20' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	2X4 FRAMING. SHEATH THE EXTERIOR WITH 7/16" OSB. 20'-0" LONG TOTAL. (8'-5"+8'-5") = 17' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	TOENAIL BLOCKING TO TOP PLATE: 3-8d/ BLOCK	2X4 FRAMING. SHEATH THE EXTERIOR WITH 7/16" OSB. 20'-0" LONG TOTAL. 20' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	TOENAIL BLOCKING TO TOP PLATE: 3-8d/ BLOCK	2X4 FRAMING. SHEATH THE EXTERIOR WITH 7/16" OSB. 20'-0" LONG TOTAL. 20' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.
CALC. ALLOW SHEAR LOAD (lb/ft)	202	202	150	202	150	

WHEN PERFORATED SHEAR WALL DESIGN IS DESIGNATED, AREAS ABOVE AND BELOW OPENINGS ARE USED IN SHEAR CALCULATIONS. REFER TO ANSII/AWC SDPWS.

SIMPSON	USP EQUIVALENT
H2.5A	RT7A
SSTB16-SSTB36	STB16-STB36
HDU2-HDU5	PHD2A-PHD5A
HDU8	PHD8
LUS24-LUS210	JUS24-JUS210
LS30/LS50	MP3/MP5
LSTA9-LSTA24	LSTA9-LSTA24
A24	TDL5
H1	RT15
H3	RT3A
H6	LFTA6
H8	LFTW12
PA51/PA68	TA51/TA71
ABA44/ABA66	PA44E/PA66E
BC4/BC6	C44/C66
A31T	TDL10
HS12	KHS12
SDS1/4X3 SCREW	WS3
A35	MPA1
CS16/CS22	RS200/RS300
HT14/HT15	HT16/HT22
CMSTC16	CMSTC16



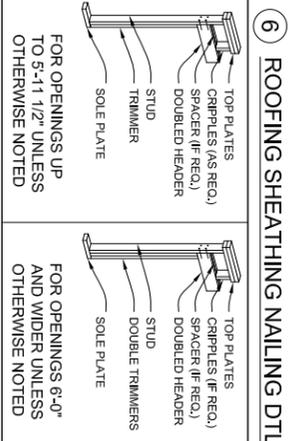
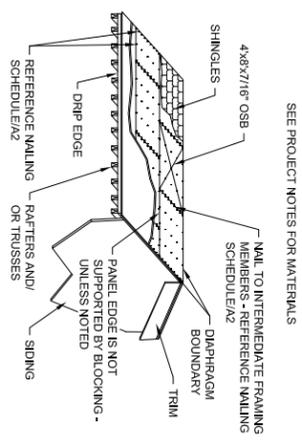
FOUNDATION PLAN

FLOOR PLAN

LOFT PLAN

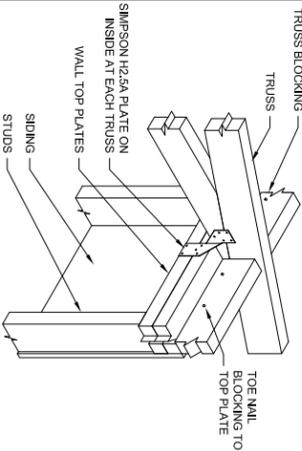
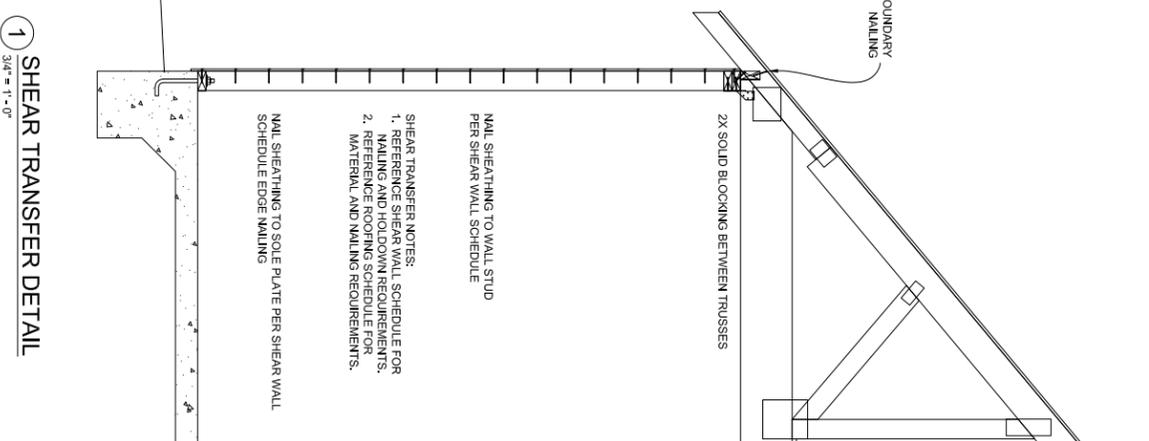
ROOF FRAMING PLAN

	TUFF SHED Storage Buildings & Garages TUFF SHED, INC. 6500 NE HALSEY STREET, UNIT A PORTLAND, OR 97213 (503) 288-8833 CONTRACTOR'S LICENSE #105914 COPYRIGHT © 2015 TUFF SHED, INC. PROPRIETARY, ALL RIGHTS RESERVED. STORE 160	THESE DRAWINGS AND THE DESIGN ARE THE PROPERTY OF TUFF SHED, INC. THESE DRAWINGS ARE FOR A BUILDING TO BE SUPPLIED AND BUILT BY TUFF SHED ONLY. ANY OTHER USE IS FORBIDDEN BY TUFF SHED INC AND THE ENGINEER OF RECORD.	PO No. Inv No. 1415397 Customer: LAURA SWEARINGEN Description: ACCESSORY BUILDING 20' X 20' = 400 SQ FT Site Address: 420 4TH ST OREGON CITY, OR 97045	TUFF SHED, INC. ENGINEERING DEPARTMENT RICHARD J. WILLS, P.E. RWILLS@TUFFSHED.COM 1777 S. HARRISON STREET DENVER, COLORADO 80210 (303) 753-8833 EXT. 96315
	Drawn By: PK Date: 9/20/19 Checked By: Date: Revised: Title: PLANS SHEAR WALL SCHED NAILING SCHEDULE Scale: 1/4" = 1'-0" Sheet:	Sheet 2 of 3		

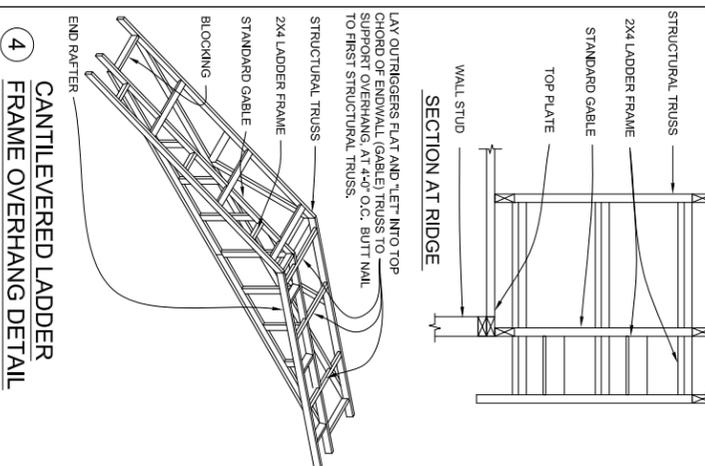
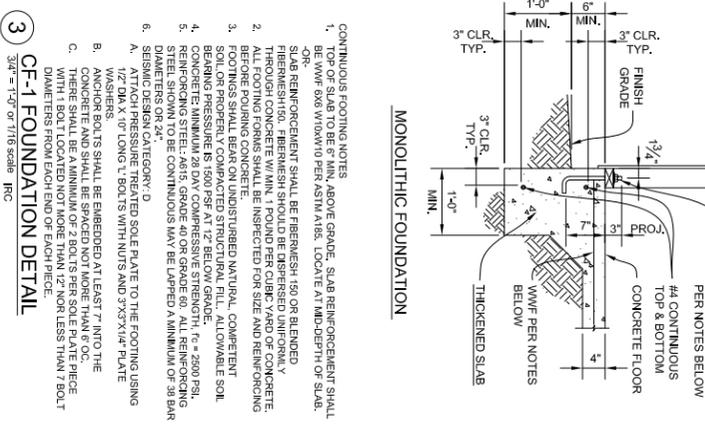
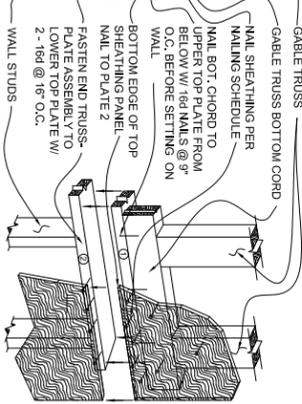


5 HEADER DETAIL
NOT TO SCALE

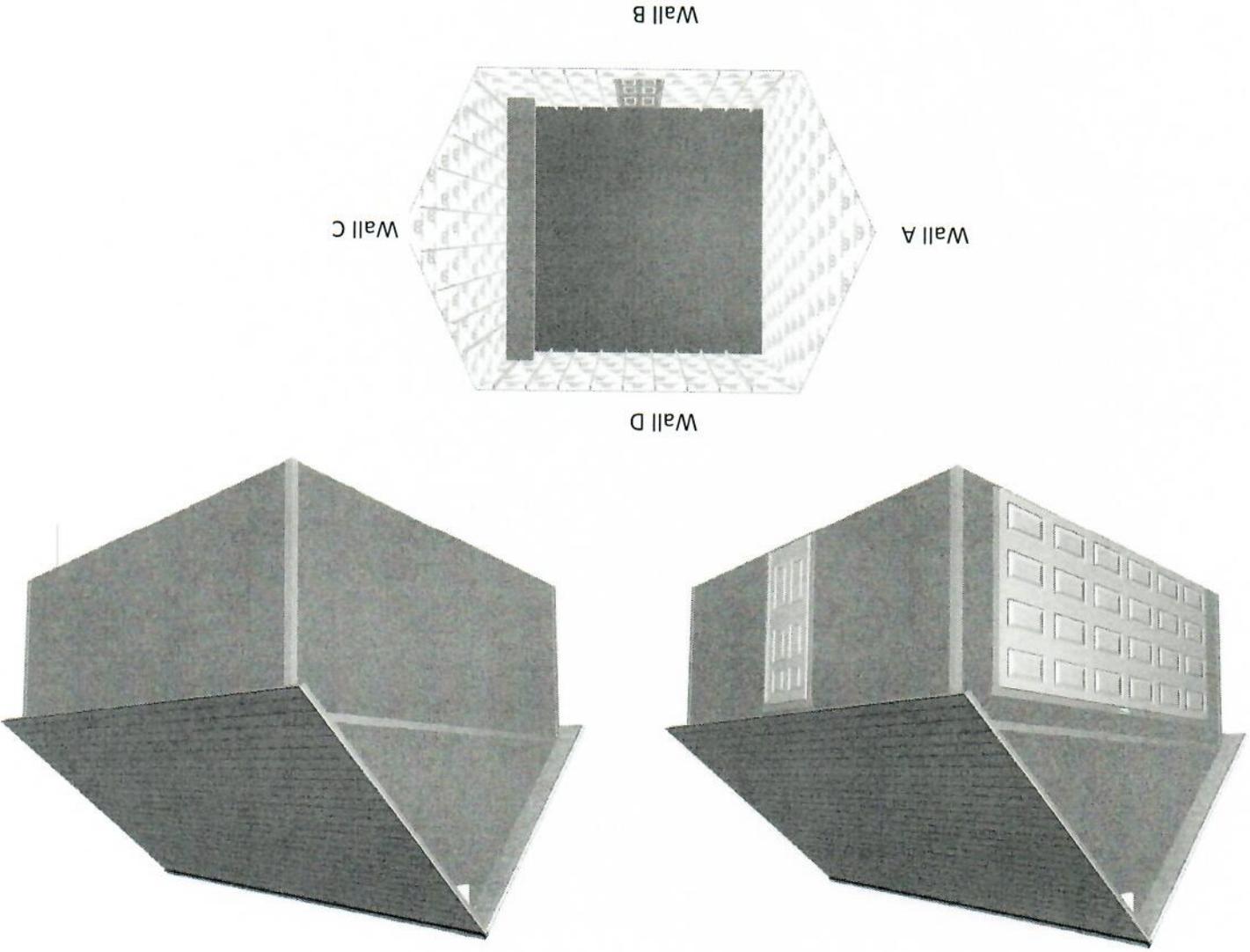
NAILING:
HEADER TO STUD - 4x4 TORSNAIL OR 4x16 END NAIL
DOUBLED HEADER - 16d @ 16" STAGGERED FACE NAIL
REFERENCE TABLE 602.3



8 END WALL BRACE and TRUSS BOTTOM CHORD BRACE
NOT TO SCALE



<p>TUFF SHED Storage Buildings & Garages TUFF SHED, INC. 6500 NE HALSEY STREET, UNIT A PORTLAND, OR 97213 (503) 288-8833 CONTRACTOR'S LICENSE #105914 COPYRIGHT © 2015 TUFF SHED, INC. PROPRIETARY. ALL RIGHTS RESERVED</p>	<p>THESE DRAWINGS AND THE DESIGN ARE THE PROPERTY OF TUFF SHED, INC. THESE DRAWINGS ARE FOR A BUILDING TO BE SUPPLIED AND BUILT BY TUFF SHED ONLY. ANY OTHER USE IS FORBIDDEN BY TUFF SHED INC AND THE ENGINEER OF RECORD.</p>	<p>PO No. Inv No. 1415397 Customer: LAURA SWEARINGEN</p> <p>Description: ACCESSORY BUILDING 20' X 20' = 400 SQ FT Site Address: 420 4TH ST OREGON CITY, OR 97045</p>	<p>TUFF SHED, INC. ENGINEERING DEPARTMENT</p> <p>RICHARD J. WILLS, P.E. RWILLS@TUFFSHED.COM 1777 S. HARRISON STREET DENVER, COLORADO 80210 (303) 753-8833 EXT. 96315</p>
	<p>Drawn By: PK Date: 9/20/19 Checked By: Date: Revised: Title: SECTIONS DETAILS Scale: NONE Sheet</p>	<p>Sheet 3 of 3</p>	



Base Details

- Building Size & Style
Premier Pro Ranch Garage - 20' wide by 20' long
- Door
Overhead Garage Door (16' x 7'), 6-Panel Residential Door (Right Hand Inswing)
- Paint Selection
Base: No Paint, Trim: No Paint
- Roof Selection
Pewter Gray Dimensional Premium Shingle
- Drip Edge
White

Options Details

- Walls
815 Sq Ft House Wrap
815 Sq Ft No siding - OSB shear Only
- Roof
617 Sq Ft Roof - 10/12 Roof Pitch Upgrade
617 Sq Ft Attic Truss
- Interior
20 Lin Ft 24" Workbench
Custom Stairs: Pull Down Stairs
- Vents
2 Ea 12"x12"Gable End Vent, White Workbench on Side C at 39"
- Workbench Locations
Permit Tech Fee
Loft

Jobsite/Installer Details

- Do you plan to insulate this building after Tuff Shed installs it?
Yes
- Is there a power outlet within 100 feet of installation location?
Yes
- The building location must be level to properly install the building. How level is the install location?
Slab provided by customer will be within 1/8" tolerance on square, level, exterior dimensions to match the building size (per customer agreement).
- Will there be 18" of unobstructed workspace around the perimeter of all four walls?
Yes
- Can the installers park their pickup truck & trailer within approximately 200' of your installation site?
Yes
- Substrate Shed will be installed on?
Concrete without Shed Floor

Customer Signature: _____

Date: _____

Received 11/18/20



Quote

Location: Portland | #160 | 503-288-8833
 Factory Location: Portland | #160 | 503-288-8833

Scheduled Date:
 Created Date: 08/17/2019

Prepared by: Jeff Waldrop | (503) 288-8833 | jwaldrop@tuffshed.com

Customer: Laura Swearingen
 p. (503) 396-1540 | c. swearingenla@gmail.com

Special Instructions:

JDE SO
 SF Quote

1415397
 Q-250244

Ship to Address

420 4th st
 Oregon City, OR 97045

Line Item Description	Sales Price	Quantity	Promo	Add'l Disc	Total Price
Premier Pro Ranch Garage 20 x 20	\$10,597.00	1.00	(\$0.00)	\$0.00	\$10,597.00
Roof - 10/12 Roof Pitch Upgrade	\$6.50	617.00	(\$0.00)	\$0.00	\$4,010.50
Custom Services: Loft	\$1,660.00	1.00	(\$0.00)	\$0.00	\$1,660.00
Attic Truss	\$2.00	617.00	(\$0.00)	\$0.00	\$1,234.00
Custom Engineering: Permit Tech Fee	\$800.00	1.00	(\$0.00)	\$0.00	\$800.00
Engineering Fees	\$1.00	400.00	(\$0.00)	\$0.00	\$400.00
Custom Stairs: Pull Down Stairs	\$300.00	1.00	(\$0.00)	\$0.00	\$300.00
House Wrap	\$0.40	815.00	(\$0.15)	\$0.00	\$203.75
24" Workbench	\$9.25	20.00	(\$3.52)	\$0.00	\$114.80
12"x12" Gable End Vent, White	\$32.00	2.00	(\$12.16)	\$0.00	\$39.68
16'x7' Standard Garage Door	\$0.00	1.00	(\$0.00)	\$0.00	\$0.00
3068 R-in-6-Panel Residential Door	\$0.00	1.00	(\$0.00)	\$0.00	\$0.00
Pewter Gray Lifetime	\$0.00	617.00	(\$0.00)	\$0.00	\$0.00
Garage Delivery Fee	\$300.00	1.00	(\$0.00)	\$300.00	\$0.00
No siding - OSB shear Only	(\$0.25)	815.00	(\$0.00)	\$0.00	(\$203.75)

Gross Total	\$19,672.75
Discount	(\$516.77)
Net Total	\$19,155.98
Estimated Tax	\$0.00
Grand Total	\$19,155.98



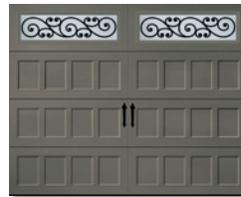
Long Panel Bead Board with Moonlite DecraTrim in True White

Self-expression shouldn't cost a fortune. With Amarr's Oak Summit Collection, it won't. These durable steel doors offer an attractive carriage house look. Choose from a variety of door colors, decorative hardware, and window accents. Customize your home with Amarr's most affordable carriage house door.



Bead Board Panel with Mission DecraGlass in Golden Oak†

Recessed Panel with Trellis DecraGlass (RE76)



Raised Panel with Cascade DecraTrim (RS23)



Bead Board Panel with Prairie DecraTrim (BB21)



LP Bead Board Panel with Stockton DecraTrim (LPBB20)



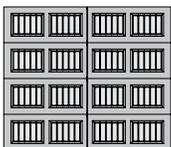
Recessed Panel with Arched Thames DecraTrim (RE31)†



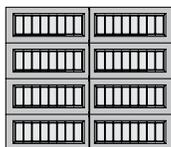
†Color only available in Oak Summit 3000

PANEL DESIGNS

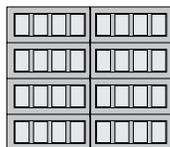
BB • BEAD BOARD PANEL



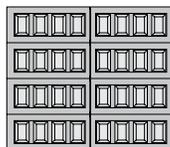
LPBB • LP BEAD BOARD PANEL



RE • RECESSED PANEL



RS • RAISED PANEL



OAK SUMMIT® COLLECTION

Construction



Steel Exterior



STEEL

1000

Single-Layer: Steel

Get value and durability with an Oak Summit 1000 single-layer steel door. These heavy-duty steel doors are durable, reliable, and low maintenance.

- Heavy-Duty Exterior Steel
- Durable, Reliable, Low Maintenance

Steel Exterior
Vinyl-Coated Polystyrene Insulation



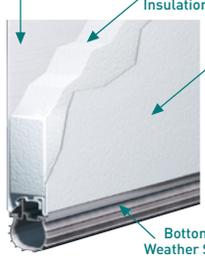
2000

Double-Layer: Steel + Insulation

An Oak Summit 2000 double-layer door provides durable, low-maintenance features, plus a layer of vinyl-coated insulation for increased thermal properties and quieter operation.

- Heavy-Duty Exterior Steel
- Durable, Reliable, Low Maintenance
- Environmentally Safe Polystyrene Thermal Insulation with Vinyl Backing
- Energy Efficient
- Quiet Operation

Steel Exterior
Polystyrene Insulation
Steel Interior



3000

Triple-Layer: Steel + Insulation + Steel

For the toughest, most energy-efficient steel door, an Oak Summit 3000 triple-layer door includes the ultimate in thermal properties, plus a layer of steel for a finished interior look and added durability.

- Heavy-Duty Exterior and Interior Steel
- Durable, Reliable, Low Maintenance
- Environmentally Safe Polystyrene Thermal Insulation
- Superior Energy Efficiency
- Extra Quiet Operation

Specifications

	OAK SUMMIT 1000	OAK SUMMIT 2000	OAK SUMMIT 3000
PANEL DESIGNS			
Bead Board	•	•	•
Long Panel Bead Board	•	•	•
Recessed	•	•	•
Raised	•	•	•
INSULATION¹		Polystyrene	Polystyrene
R-VALUE²		6.64	6.48
DOOR THICKNESS	2" [5.1cm]	2" [5.1cm]	1 3/8" [3.5cm]
STEEL THICKNESS	25 ga	25 ga	27/27 ga
WINDOW GLASS OPTIONS			
3/32" Single Strength	•	•	•
Insulated Glass			•
Obscure	•	•	•
WIND LOAD³ AVAILABLE	•	•	•
PAINT FINISH WARRANTY⁴	15 Years	25 Years	Lifetime
WORKMANSHIP/HARDWARE WARRANTY⁴	1 Year	2 Years	3 Years

¹ Insulation has passed self-ignition, flamespread and smoke developed index fire testing.

² Calculated door section R-value is in accordance with DASMA TDS-163.

³ It is your responsibility to make sure your garage door meets local building codes.

⁴ For complete warranty details, visit amarr.com or contact your local Amarr dealer.

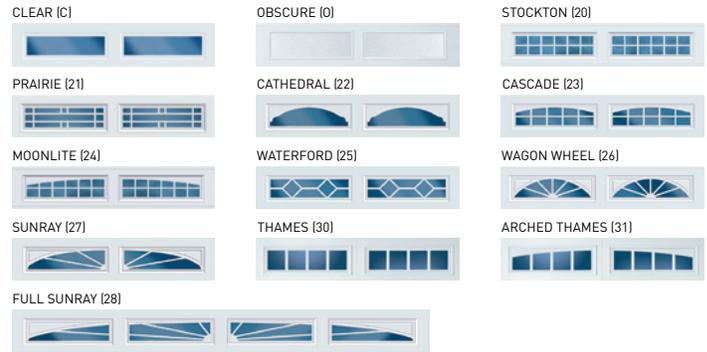
Entrematic reserves the right to change specifications and designs without notice and without incurring obligations.

Sectional door products from Entrematic may be the subject of one or more U.S. and/or foreign, issued and/or pending, design and/or utility patents.

Amarr, Classica, Stratford, and Oak Summit as words and logos are registered trademarks belonging to Entrematic Group AB or other companies controlled by the same organization. All rights reserved.

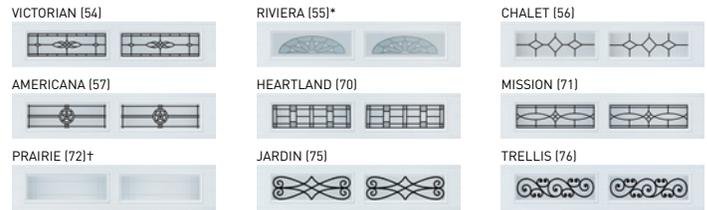
©Entrematic Group AB 2014. All rights reserved.
Printed in USA Form #6040414/75M/GVS

DecraTrim Window Inserts



DecraGlass™ Windows

Tempered obscure glass with baked-on ceramic designs.



* Clear glass with printed frost pattern.
† Obscure glass with v-groove.

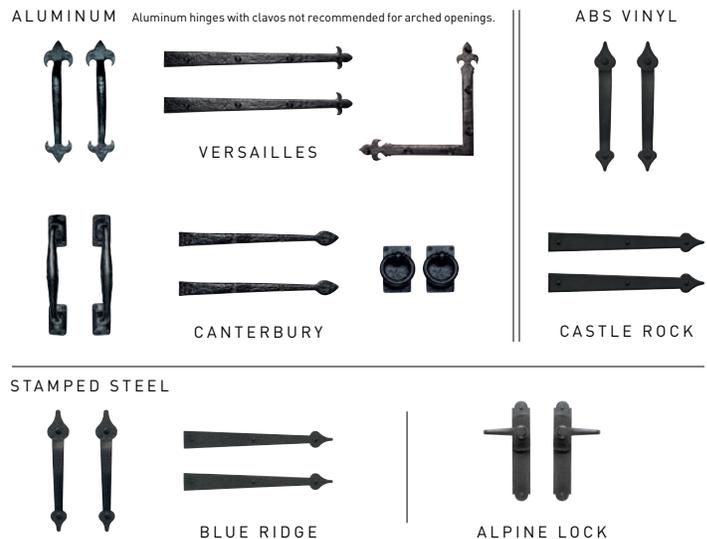
Colors

Amarr steel doors arrive pre-painted; for custom colors, exterior latex paint must be used. Visit amarr.com for instructions on painting. Actual paint colors may vary from samples shown.



† Only available in Oak Summit 3000.
* Price upcharge applies.

Decorative Hardware & Lock



165 Carriage Court
Winston-Salem, NC 27105
800.503.DOOR
www.amarr.com



YOUR LOCAL AMARR DEALER: