

Village of Bayside 9075 N Regent Road Architectural Review Committee Meeting October 18, 2021 Remote Teleconferencing, 6:00pm

ARCHITECTURAL REVIEW COMMITTEE AGENDA

PLEASE TAKE NOTE: Due to the COVID-19 Pandemic, the Architectural Review Committee will be meeting via remote conferencing at the above noted time and date, at which the following items of business will be discussed and possibly acted upon.

I. CALL TO ORDER AND ROLL CALL

II. APPROVAL OF MINUTES

A. Approval of October 4, 2021 meeting minutes.

III. BUSINESS

A. 9300 N Fairway Dr – Mike & Stephanie Tack The proposed project is a two level treehouse and a privacy screen fence.

Please review detailed plans here.

B. 9540 N Regent Rd – John Schreiber The proposed project is a 12-foot by 8-foot storage shed that will be painted to match the house.

Please review detailed plans here.

C. 8851 N Bayside Dr – William Greaves The proposed project is the installation of a 22-foot radio tower with a maximum heigh of 55 feet.

Please review detailed plans here.

D. 9433 N Fairway Dr – Thomas & Kristine Houck The proposed project is an 8-foot by 12-foot garden shed placed upon an 18-foot by 14-foot concrete slab behind the existing garage.

Please review detailed plans here.

E. 828 E Ellsworth Ln – Andy Frank The proposed project is an 8-foot by 10-foot prefabricated wooden garden shed.

Please review detailed plans here.

F. 600 W Laramie Ln – Al Brotton The proposed project is the installation of 4-foot high, dog-eared, cedar fence with 8-inch spacing around garden on west side of home and 32 feet of cedar fence straight off of the east side of the home.

Please review detailed plans here.

G. 416 E Ravine Baye Rd – Matthew Buerosse The proposed project is a 14-foot by 12foot storage shed and an 84-inch by 7-foot outdoor fireplace/pizza oven.

Please review detailed plans here.

IV. ADJOURNMENT

Leah Hofer Assistant to the Village Manager

The Architectural Review Committee will utilize Zoom video conferencing software for this meeting. To join the zoom meeting using a computer or tablet: <u>https://us02web.zoom.us/j/88567330535?pwd=SGJJRVN0cWtnOCtRQW93d1JINVR5QT09</u> If using a telephone to dial in: 1-312-626-6799. The meeting ID is: 885 6733 0535, password 524248.

Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. Contact Village Hall at 414-206-3915. It is possible that members of and possibly a quorum of members of other Boards, Commissions, or Committees of the Village may be in attendance in the above stated meeting to gather information; no action will be taken by any other Boards, Commissions, or Committee noticed above. Agendas and minutes are available on the Village website (www.baysidewi.gov).



Village of Bayside 9075 N Regent Road Architectural Review Committee Meeting Minutes October 4, 2021

I. CALL TO ORDER

Committee member Dan Zitzer called the meeting to order via remote teleconferencing at 6:00pm.

II. ROLL CALL

Chair: Members:	Marisa Roberts-Excused Elizabeth Levins Dan Zitzer Tony Aiello-Arrived at 6:08pm John Krampf - Excused
Trustee Liaison:	Mike Barth
Also Present:	Assistant to the Village Manager Leah Hofer Deputy Clerk Amanda Gronemeyer

III. APPROVAL OF MINUTES

A. Approval of September 13, 2021 meeting minutes.

Motion by Trustee Barth, seconded by Elizabeth Levins, to approve the September 13, 2021 meeting minutes. Motion carried unanimously.

IV. BUSINESS

A. 9100 N White Oaks Ln – White Oaks Apartments

Representatives from AG Architects and John Mann, project representative, appeared on behalf of the project. There were no neighbors in attendance.

The representatives from AG Architects explained that they are planning to construct a new modern 3 story apartment complex on the existing foundation. There will be some modifications to the original plan to ensure the balconies are respectful of the existing foundation.

John Mann noted that everything else from the apartment count, parking, and Katz Offices remain the same.

Motion by Trustee Barth, seconded by Elizabeth Levins, to approve the project with the discussed changes. Motion carried unanimously.

John Mann, project representative, discussed the timeline of the project. The goal is to have the project started late fall of 2021 and finished by the end of 2022.

V. ADJOURNMENT

Motion by Trustee Barth, seconded by Elizabeth Levins, to adjourn the meeting at 6:13pm. Motion carried unanimously.

Respectfully submitted,

Leah Hofer Assistant to the Village Manager Proposed project details (type of work, size, materials, etc.):

Tree house. Two levels with an enclosed area approximately 42 sq. ft. Lower plateform is roughly 80 sq. ft. Upper plateform is roughly

*Planning to paint enclosed area → dark grey * Planning to stain tree house structure.
* New privacy screens will be a combination of dark grey & stained wood.

* Dark Grey > Pencil Point * Stain > Semi Transparent > Russet

Project Proposal Date 103/21 Property Address 9300 N. Fair Way Dr.								
Zoning	· · · · · · · · · · · · · · · · · · ·							
Accessory Structures/Generators	New Construction							
□ Additions/Remodel	X Play Structures							
Bluff Management	Recreational Facilities/Courts							
Commercial Signage	Roofs							
Decks/Patios	🛛 🖸 Solar Panels/Skylights							
X Fence	Swimming Pools							
C Fire Pits	Windows/Doors-change exceeds 25% of opening							
Landscaping requiring Impervious Surface/Fill/Excavation Permit	Other States							

Proposed project details (type of work, size, materials, etc.):

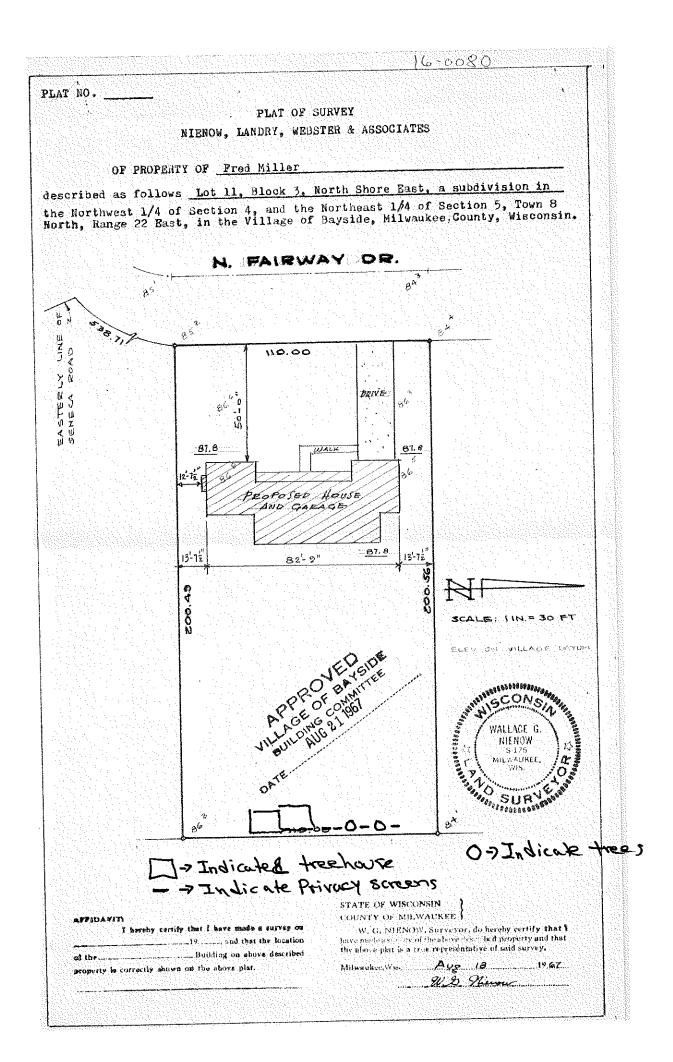
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Yes	No	
	D	Color photographs showing project location, elevations and surrounding views
	D	Two (2) complete sets of building plans (including elevations and grading)
D	ū	Survey
0	. 🖸	Samples or brochures showing materials, colors and designs
		Application Fee
Q	·, D	Parcel Number
D	D	ARC Agenda Date:
· 🛈	•• 🖸	Building Permit
D	Q	Fill Permit
	D	Impervious Surface Permit
	Q	Plan Commission/Conditional Use Permit
D		Tax Key Number
D	0	Right-of-Way/Excavation Permit
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Total			F	Rec By											

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Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

ltem	Cost
Wood	A 2,000
Slide	00) tt
Window 3	\$ 400
Deos	<u>\$ 125</u>
Misc Supplier	A 3,50
2 -	Total Cost \$ 3475
611-1.5	
Signature Jun	Date 6/1/2021
Requested Chang	es at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

ltem

Cost

· · · · · · · · · · · · · · · · · · ·	
	Total Cost
Signature	Date

Privacy Screen example



Gtongoko Fence Post Anchor Ground Spike Heavy Duty Metal Black Powder Coated 36 x 4 x 4 Inches Outer Diameter (Inner Diameter 3.5 x3.5 Inches), Pack of 4 Visit the Gtongoko Store Visit the Gtongoko Store 49 ratings

Price: \$66.99 <prime & FREE Returns</pre>

Pay \$11.17/month for 6 months, interest-free with your Amazon Prime Rewards Visa Card

May be available at a lower price from other sellers, potentially without free Prime shipping.

Size: 36inch

24inch 32inch 36inch

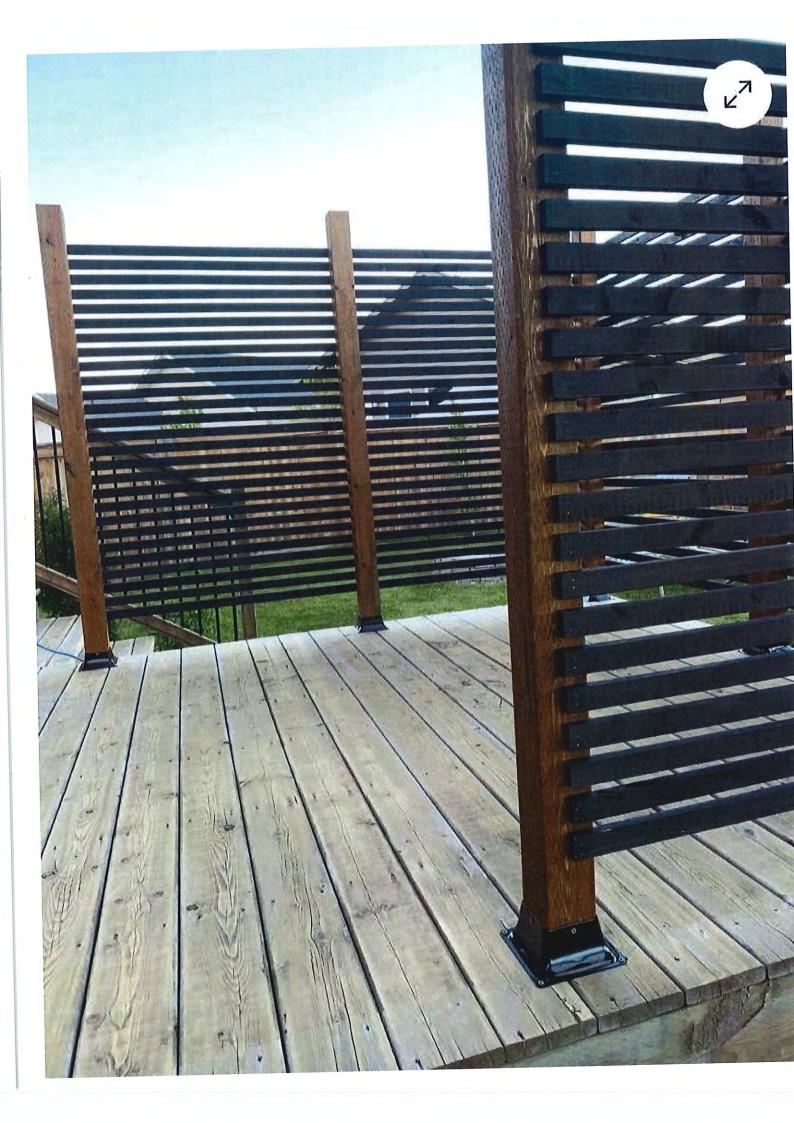
Privacy Screen

post anchors

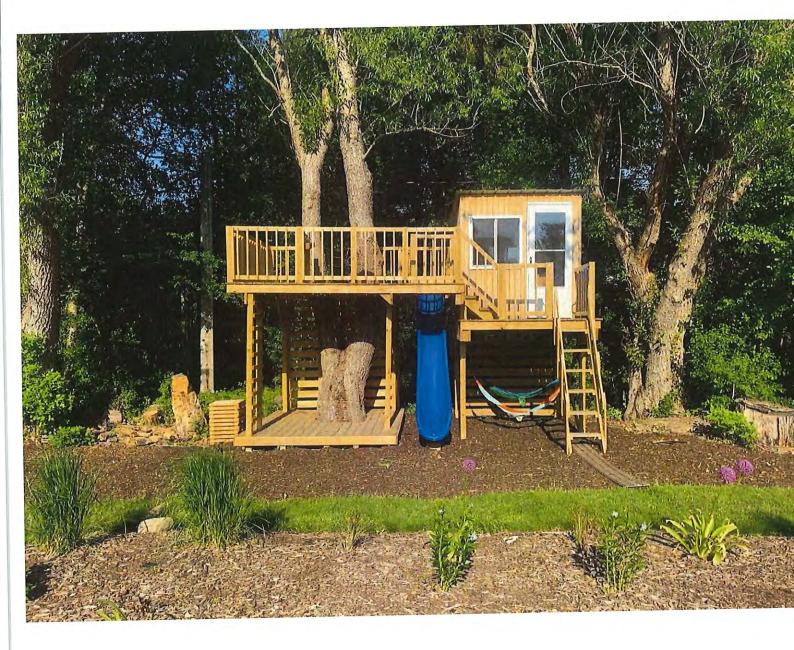
- ① 【SIZE】 The length of the fence post is 36inches, can fit standard 4 x 4inches posts; 3.5 x 3.5inches true dimensions with screws on one side to allow the post bracket opening to be large enough to insert
- U [EASY TO INSTALL] You can use the post without digging holes or pouring concrete. You only need to add the wood into the post then tightened screws and nuts. Owing to the wooden post being in contact with metal rather than soft / wet ground, so your fence posts or
- mailbox can be last long time.
 The fence anchor is widely used in our daily life, including fencing, mailboxes, decking flag poles, shed support, timber frames, solar power installations, road signage, wooden structures, banners and more. It is a best choice for you to decorate your

yard.

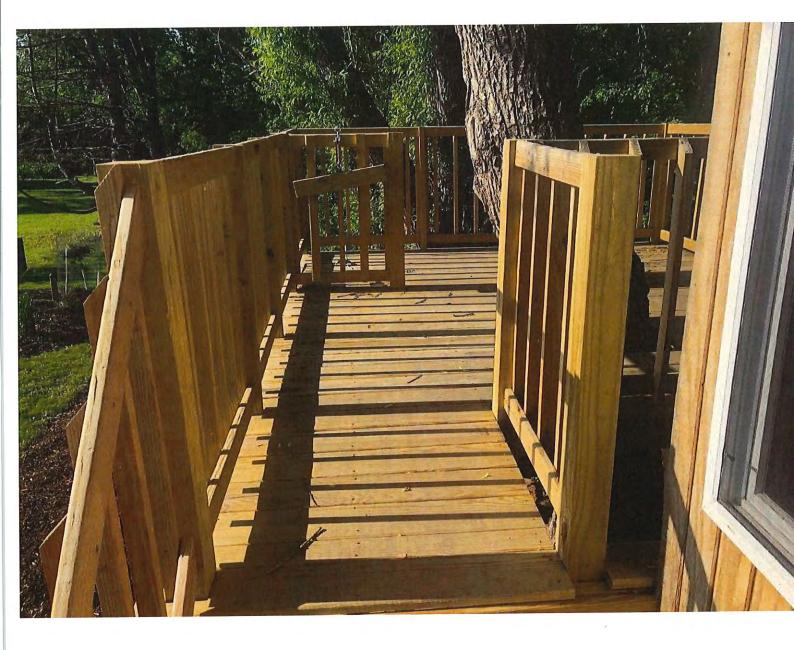
















10/05/2021

Attention: Village of Bayside, WI Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
John Schreiber	New 8' X 12' 96 sq. Ft. storage shed
PROJECT ADDRESS: 9540 N Regent	

I have reviewed the proposed new shed for compliance with the Village's ordinances and have determined the following for consideration

Sec. 125-90. - "B" residence district regulations.

(4) A side yard of not less than ten feet shall be provided for on each side of every building.

(5) A rear yard of not less than 20 feet shall be provided for every building, except one of not less than ten feet shall be provided for a building used for or classified as an accessory use.

1. Unable to confirm the rear set back as there is no measurement on the survey, however when comparing side setback to rear yard space it appears to meet the rear yard setback

2. Confirms with the Impervious requirements

3. Confirms with the size limit requirements.

104-2(a)(2) Architectural Review Committee: Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix SAFEbuilt Wisconsin Operations Manager

Bayside ARC Review

Project Pro	oposal
Date 10/21 Property Address 9540	N. Regent
Zoning Accessory Structures/Generators Additions/Remodel Bluff Management Commercial Signage Decks/Patios Fence	 New Construction Play Structures Recreational Facilities/Courts Roofs Solar Panels/Skylights Swimming Pools Windows/Doors-change exceeds 25% of opening
Landscaping requiring Impervious Surface/Fill/Excavation Permit	□ Other
Proposed project details (type of work, size, materic Stange Spece 12 + 8	als, etc.):

1

Yes	No	
		Color photographs showing project location, elevations and surrounding views
		Two (2) complete sets of building plans (including elevations and grading)
		Survey
		Samples or brochures showing materials, colors and designs
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D	a	Application Fee
		Parcel Number
<u> </u>	<u> </u>	ARC Agenda Date:
		Building Permit
	<u> </u>	Fill Permit
	<u> </u>	Impervious Surface Permit
		Plan Commission/Conditional Use Permit
		Tax Key Number
		Right-of-Way/Excavation Permit
		Variance Required

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1-262-346-4577 SAFEbuilt, Inc.	V	VI UNIFOR hartfor	dinspect	ons@safe	built.com	usiness da	y inspectic	113	TAXKEY#				D
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Other				Rec By.		1110101051							

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Application for Impervious Surface Permit

vner's Name: <u>John Schreiber</u> reet Address: <u>9540 N. Rigent R</u> lephone Number: <u>914,899,9892</u>	
hereby apply for a permit to install impervious surfac mount of square footage to be added6(ype of impervious surface (ex. driveway, sidewalk, et	8 # 12)
Anything over 50 sq. ft. requires a permit and detaile	ed plans with measurement
* Anything over 50 sq. ft. requires a period and a second start Date: <u>10 2021</u> Estimated Completion Date: <u>10 2021</u>	
Estimated Completion Date: <u>10 / 2021</u>	
I understand that approval from the Village of Ba	yside Department of Public Works is on of the project.
l understand that approval from the Village of Ba required prior to starting and also upon completi Owner Signature <u>Amm R Amm</u>	The project. $\frac{8/30/21}{20}$
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DPW Representative	Date <u>8/30/21</u> surface at the above address Date
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DPW Representative	Date <u>8/30/21</u> surface at the above address Date Date
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0170031000 TAXKEY:

Milwaukee County Land Information Parcel Report

N REGENT RD 803 9559 9575 9591 9541 9580 9596 VIL 19560 E 9580 810 2549YSIDE 9560 800 780 808 801 VILLAGE OF 600 B /95401DE Parcel location within Milwaukee County IN Feet 480 780 Parcel Information 801 0170031000 500 12/31/2019 Selected parcel highlighted JOHN R SCHREIBER AMANDA B SCHREIBER

Report generated 8/30/2021 10:12:22 AM

		Assessed Value:	\$344,200
Address:	9540 N REGENT RD	A3303000 101121	
Municipality:	Bayside	Land Value:	\$140,400
	0.77	Improvement Value:	\$203,800
Acres:	0.77		
Parcel Description:	RESIDENTIAL		
Parcel Description			

Zoning Description:

9541

480

500 516

534

552

9525

9509

98.85

505

TAXKEY:

Record Date:

Owner(s):

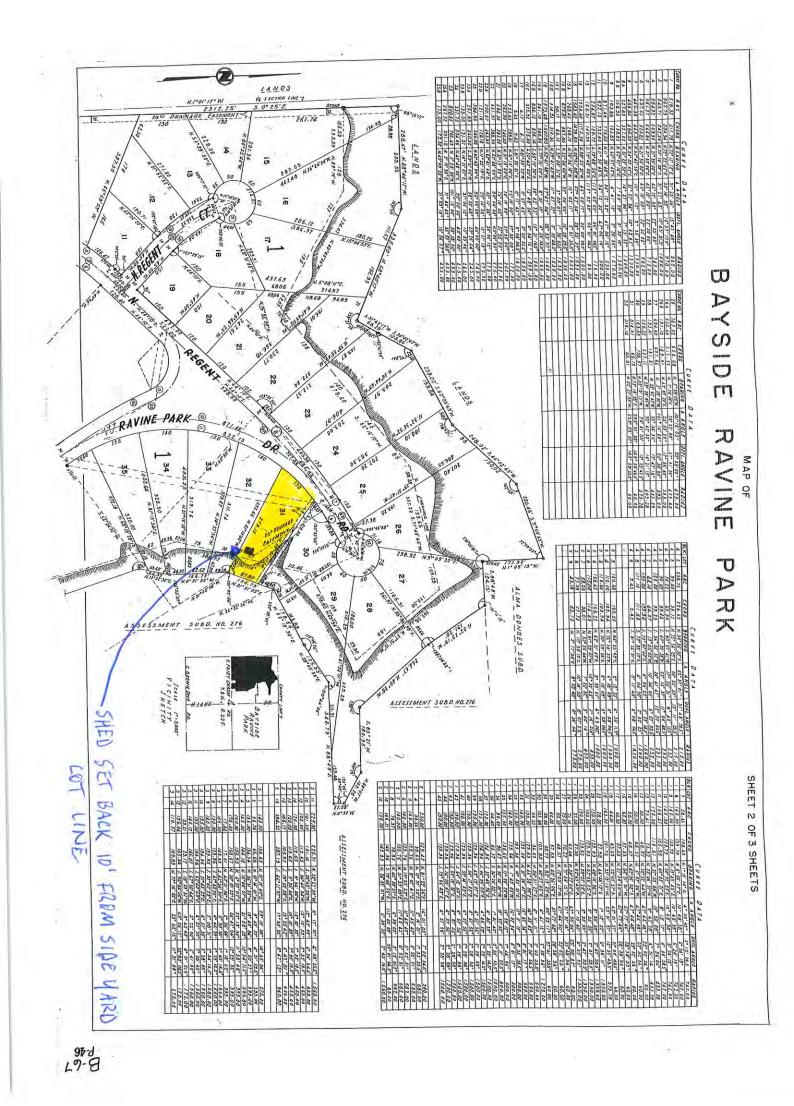
Legal Description:

School District:

NICOLET UHS SCHOOL DISTRICT

BAYSIDE RAVINE PARK LOT 31 BLK 1

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.



Delivery ZIP Code: 53201 Change Lists | Reorder Costco

Home / Patio, Lawn & Garden / Outdoor Storage Sheds

Installed Sheds by Yardline - Aberdeen Shed, 8' x 12'

Item 1408678



* To be painted to match color of house (Red w/ white Trum)

+4

4

Your Price

Shipping & Handling Included*

Special Event - Ends 9/12/21

Limited Time Offer. While supplies last.

Features:

- Installation and Delivery Included
- Large Window with Shutters
- Loft and Shelf Included
- Decorative Door Hinges
- 64" Double Doors

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Add to Cart	
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r Share	

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Arrives approximately 6 - 8 weeks from time of order.

Product Details

Delivery and installation only to the following states: AL AZ CO CT DE GA IA ID IL KY LA MA MO MT NC ND NE NH NJ OK PA TN TX UT VT WA WI WY

Remote service locations may require additional time for delivery.

Product details have been supplied by the Manufacturer, and are hosted by a third party.

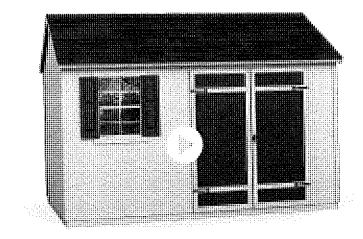
Before ordering:

- Be sure to check your local building and zoning codes to ensure that all appropriate permits have been acquired. Always check with your local building authority and home owner's association for any restrictions/requirements before finalizing your purchase
- Siding is pre-primed and ready for paint (paint sold separately)

SPECIAL FEATURES:

- 25-year shingles included with 5 colors to choose from
- Extra-wide 64" double doors accommodate ATV's, wheelbarrows, tractors, lawnmowers and more
- 8'W x 12"D shelf
- 2' deep storage loft
- Large operable window with shutters
- 6'4 tall sidewall height | 9'3" peak height
- Two wall vents provide ventilation
- LP® engineered & treated siding resists rot, decay & insects
 - Siding primed and ready for paint
- Heavy-duty locking handle provides easy access
- Premium 2x4 construction
- Roofing felt for added protection from moisture
- Complete floor system treated 2x4 joists, 4x4 runners and engineered wood decking
- Aluminum threshold protects your entryway
- Decorative door hinges show off a classic look
- Professional installation included with purchase
- 15-year limited warranty

HIGHLIGHTS





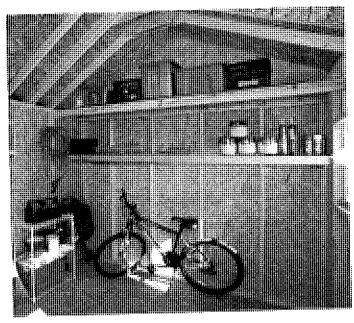


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MADE HERE. MADE RIGHT.

>

Feedback



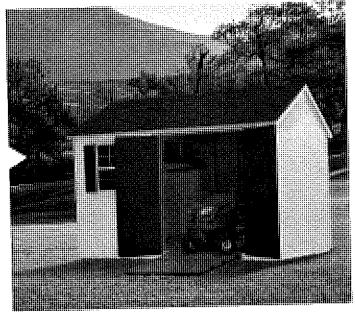
SMART ORGANIZATION SYSTEM

Keeps items organized and within reach.

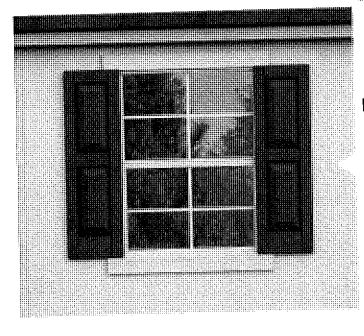
- 8'W x12"D shelf
- 2' deep storage loft

EXTRA-WIDE 64" DOUBLE DOORS

Industry-leading 64" wide door opening accommodates ATV's, tractors, wheelbarrows or your oversized band gear.



Ecolhark



LARGE WINDOW WITH SHUTTERS

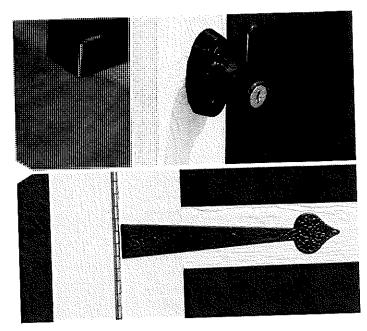
- Invites natural light inside and makes your shed feel like home
- Window is fully operational
- Includes screen and lock
- Features smart trim
- Size: 22"x30"

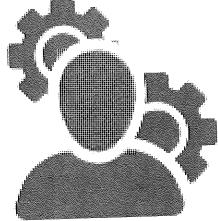
HEAVY-DUTY LOCKING HANDLE

Premium handle keeps your items inside secure while proving easy access when you need it.

STRONG & DURABLE CONTINUOUS DOOR HINGES

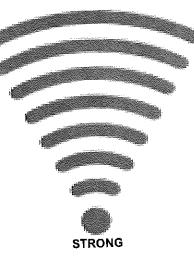
Galvanized continuous plano hinges prevent sagging.





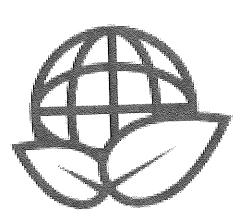
CUSTOMIZABLE

Customize your shed with paint & shingles to match your home. Expand your space with hooks, hangers and shelving.



WHY WOOD?

Wood has centuries of proven performance to meet demanding wind & snow loads. It won't rust or dent like metal, or sag like plastic.

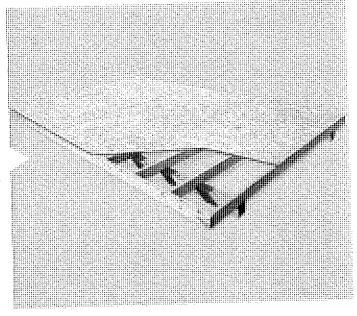


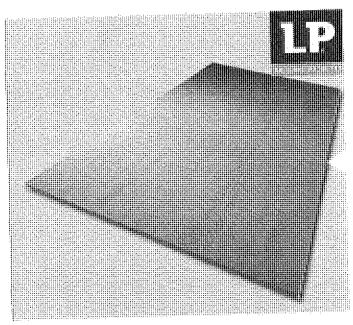
EARTH FRIENDLY

All wood is sourced from sustainable forests for optimal resource usage.

INCLUDES COMPLETE FLOOR SYSTEM

- Constructed of treated 2" x 4" framing with 16" joist spacing
- OSB decking is an engineered wood product designed for strength, durability and consistency
- 5/8" sheets cover the floor frame providing years of safe and dependable storage
- 4x4 runners



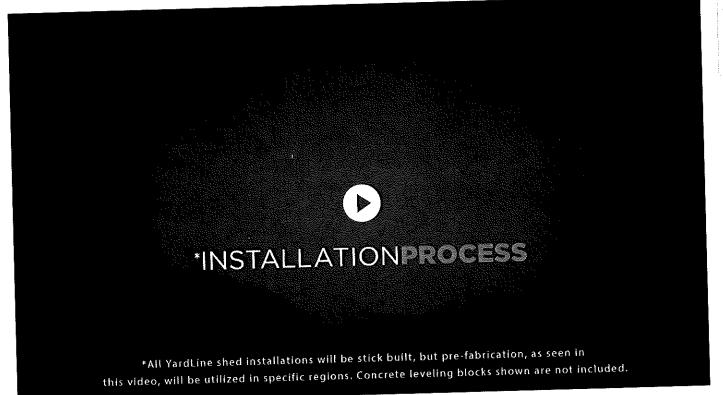


ENGINEERED & TREATED SIDING

Feedback

- Factory primed & ready to paint
- Treated to resist rot, decay & insects
- Superior dent resistance
- Deeply embossed cedar grain pattern

HOW THE INSTALLATION PROCESS WORKS



DELIVERY AND PROFESSIONAL INSTALLATION INCLUDED

A professional installer will assemble your shed, along with optional accessories. Installation on a properly prepared site takes up to two days.

ABOUT OUR INSTALLERS

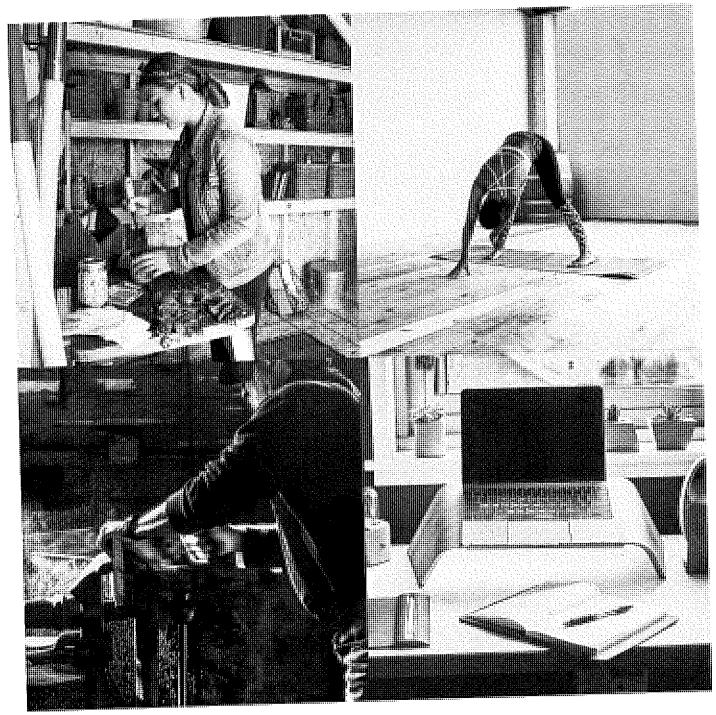
- 4.6 average installer rating
- 5,665 sheds built in 2019
- Trained through our network of manufacturing partners
- Will review your order before and after your shed is assembled to ensure 100% satisfaction
- Carefully screened, fully licensed (where required) and insured
- Customer rated to make sure they make the grade to install for us

QUESTIONS?

Email us at customerservice@yardline.net.

THINGS TO KNOW

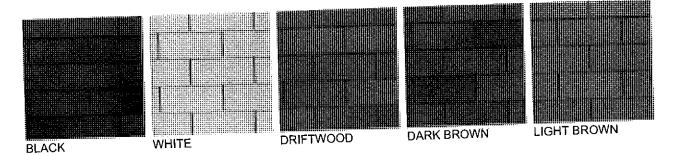
IT'S MORE THAN JUST A SHED YOUR SHED IS WHAT **YOU** MAKE IT



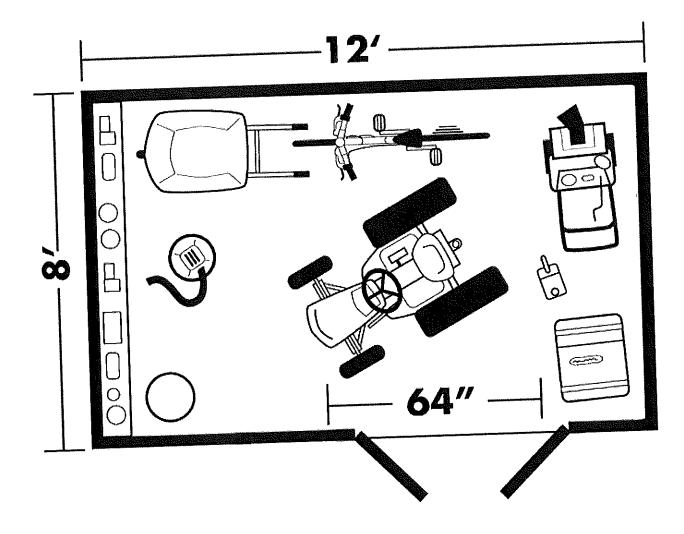
Feedback

SHINGLES INCLUDED

- Choose a color to match your home or unique taste
- 3-tab shingles with a 25-year warranty
- Shingle color chosen during scheduling phone call.
- Actual shingle colors may vary from sample shown.



SPECS



Feedback

- Common Size: 12'W x 8'D x 8'10"H
- Actual Interior Dimensions: 12'W x 8'D
- Cubic Feet Storage: 716
- Floor size: 12'W x 8'D
- Recommended Concrete Slab Size: 12'W x 8'D
- Type of Floor: Treated Frame & OSB Decking
- Floor weight capacity: 40 lb/square foot
- Peak Height: 9'3"
- Sidewall Height: 6'4"
- Double Door Opening Width: 64"
- Double Door Opening Height: 70"
- Wall Framing: 2 x 4
- · Joist Spacing: 16" o.c.
- Stud Spacing: 24" o.c.
- Number of Rafters: 5 sets
- Rafter Spacing: 24" o.c.

- Shelf: 8'W x 12"D
- Loft: 8'W x 21"D
- Overhang Length (Front): 4.25"
- Overhang Length (sides): 1.75"
- Assembled Weight: 1,832 lbs.
- Type of Vent: Wall vents (2)
- Aluminum Threshold: Included
- Continuous Piano Hinges: Included
- · Type of Handle: Locking T handle
- · Warranty: Limited 15-year warranty
- · Roof Style: Ranch
- Roof Pitch: 6.5/12
- Maximum Roof Load (lb./ sq. ft.) : 30 lb.
- Maximum Wind Resistance (mph): 90 mph

reedback



View More

Specifications

Brand	Yardline
Collection Name	Aberdeen
Option	Without Paint Service
Structure Size	8 ft. x 12 ft.

Manuals & Guides

More Special Events

Shipping & Returns

Special order merchandise, custom merchandise and installed merchandise cannot be returned or refunded after the expiration of your three business day right-to-cancel period. This is an exception to Costco's standard return policy.

The estimated delivery time will be approximately 6-8 weeks from the time of order.

Standard shipping with professional installation is included in the quoted price. Professional installation will require 1-4 days to complete. Please include a daytime phone number in the shipping information at the time of checkout and please monitor your emails for an opportunity to set your delivery appointment. Installation date must be scheduled within 90 days or the order will be subject to cancel and refund issue. Extraordinary delivery requirements may necessitate an additional fee to the carrier.



10/07/2021

Attention: Village of Bayside, WI Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
William Greaves	New 55 foot at maximum height radio tower
PROJECT ADDRESS: 8851 N Bayside Dr	

I have reviewed the proposed new radio tower for compliance with the Village's ordinances and have determined the following for consideration

Sec. 125-89. - "<mark>A</mark>" residence district regulations.

(4) A side yard of not less than twenty feet shall be provided for on each side of every building.

(5) A rear yard of not less than 20 feet shall be provided for every building.

1. The placement of the radio tower complies with the required setbacks

Sec. 104-4 (h) 2 - Accessory structures.

Height restrictions. No radio or TV tower shall exceed a height of 20 feet above the roof line of the building on the property upon which the antenna is located or 60 feet above the ground measured at ground level, whichever is the minimum.

The information the applicant provided states that his roof line if 31 feet 7 inches feet above grade.

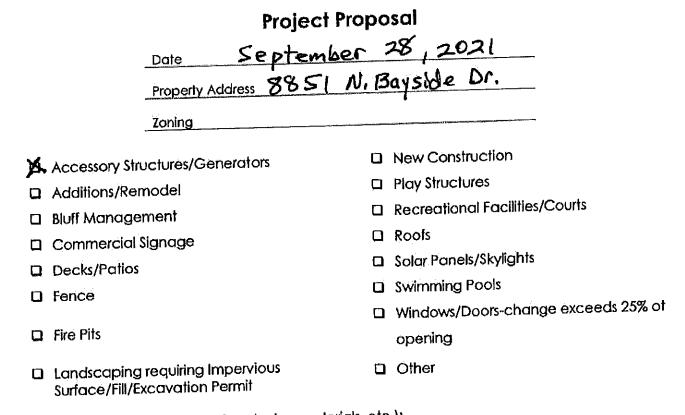
The height of the radio tower at its maximum height is 3 feet 5 inches over the allowable height above the roof line. This does not consider any variance in grade from the house to the tower site.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix SAFEbuilt Wisconsin Operations Manager

Bayside ARC Review



Proposed project details (type of work, size, materials, etc.):

please see submitted documents.

************** For Office Use Only **************

Yes	No	
	Ü	Color photographs showing project location, elevations and surrounding views
	0	Two (2) complete sets of building plans (including elevations and grading)
		Survey
		Samples or brochures showing materials, colors and designs
	4	
a		Application Fee
ū	D	Parcel Number
	Q	ARC Agenda Date:
0	0	Building Permit
0	a	Fill Permit
<u> </u>	<u> </u>	Impervious Surface Permit
0	<u> </u>	Plan Commission/Conditional Use Permit
0		Tax Key Number
0		Right-of-Way/Excavation Permit
		Variance Required

Zoning District Lot Area Sq. Ft, Setbacks Ft.						· · · · · ·		-1-1		PERMIT NO.		
Inspections need to be defined in the other of the other		W	I UNIFOR	CM P	ERM ions@sat	Epuilt.com	LICA		tions	TAXKEY#		
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White - Municipal Files

Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

Item Remodel basement conver Electrical work Antenna tower toround system	Cost (est.) 6,500,- 2,500,- 15,000,-
Signature Willingoavos	Total Cost Date28,2021

Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

ltem	Cost
	Total Cost
Signature	Date

SCOPE of WORK

Location: 8851 N Bayside Dr, Bayside WI 53217

Summary: Basement amateur (ham) radio room and antenna tower

Enclosures: (1). Residential plat survey drawing with distances noted from antenna tower base to the house, north lot line, and west lot line. (2). Plat survey drawing at 100% enlargement with approximate locations of radial ground lines and transmission line to basement radio room.

Description: This project includes remodeling a basement corner and constructing an antenna tower base for use in amateur (ham) radio. A qualified electrician will be employed with the contractor. A tower service company will provide complete antenna tower installation.

The corner of the basement that will become the radio room contains the current power service main breaker panel and utility (power, telephone, fiberoptic line) entrances. A new branch circuit with two 120V/20A lines and one 240V/20A line will be added. Within the radio room, all equipment will be bonded together with a bonding bus. A single point ground plate will have lightning arrestors installed for all coaxial cabling, as well as connections to the equipment bus and the external power service ground.

The antenna base will be concrete with rebar and anchors per specifications of the tower manufacturer, e.g., US Tower model HDX-538 (5x5x7ft concrete base, 21ft 6 inches self-supporting triangular crank-up tower to a maximum of 38ft with electric crank-up and tilt-over features). The tower will be grounded, per manufacturer's specifications, and will have ground radials (6-9) of about 60ft each with 8-10 foot ground rods exothermically welded every 20 feet to heavy copper wire or strap. The tower will be bonded to the power service external ground rod which is near the coaxial cable transmission lines entrance into the basement radio room. The coaxial cabling will be suitable for below ground installation via direct bury or in a PVC conduit; control wiring for the tower winches and antenna, e.g., rotator, will be in electrical conduit to the tower. Coaxial cable lightning arrestors will be installed on an external entrance panel that will be grounded to the external power line ground rod.

This project is intended to produce a high level of safety, lightning protection, and radio frequency control for amateur radio.

William Greaves

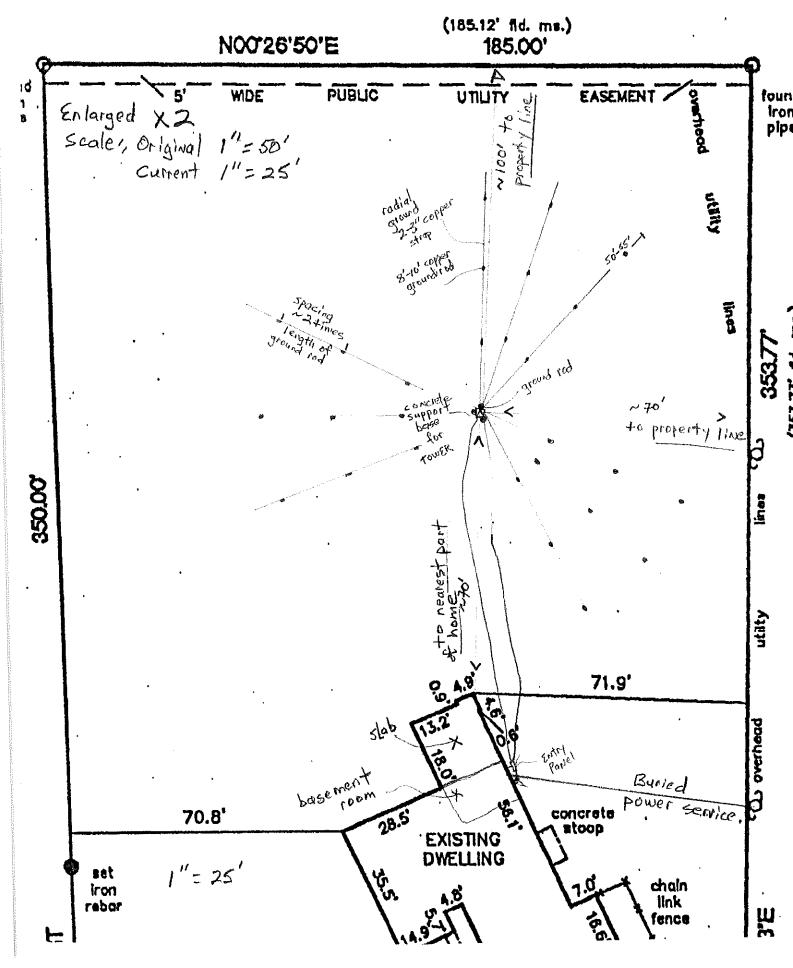
K9GN, FCC Amateur Radio Extra Class Licensee

8., IBER WISCONSIN SOCIETY OF LAND SURVEYORS William J. Karpen RLS Frederick W. Shibilski RLS PLAT OF SURVEY LOT 4, BLOCK 3, ALBERTA ACRES, being a Subdivision of a part of the Southeast I/4 of Section 4, Town 8 North, Range 22 East, in the Village of Bayside, Milwaukee County, Wisconsin. Survey location: 8851 N. Bayside Drive (165.12' fid. ms.) 185.00' N00'26'50'E tound tron pipe Ľ EASEMENT Š. ับที่มีที่ง วัมชิบัจ found kon pipe g 78 A R 8. 1 253.77" (253.75 24 mm) ₹ Ś APPROVED 70' VILLAGE OF BAYSIDE ۶K **BUILDING COMMITTEE** [349.82" #4. mil) 350.00 DATE ţ 71.9' concrete atoop 70.6 28 EXISTING set from rebor link S8733'43'E WEST 35.0 sionte . 1 1 140.00 <u>9</u>9.2' AREA OF PROPERTY - 62,34D.8 SQ. FT. found Iron pipe found fron pipe SCALE : 1 = 50' L=170.00 pavement ¢ WIDE) (60

KATHY STOKES

--- ----- THAYE OF DAYSIUE, WINWAUREE COUNTRY, THOU

ition: 8851 N. Bayside Drive



HDX-538 DESCRIPTION

US Tower's HDX Series heavy-duty crank-up towers have up to 2½ times more wind-loading capacity than others commonly advertised. This superior strength allows for large stacked arrays, while using our commercial type bases and anchor bolts that can be easily installed and vertically adjusted. All HDX Series T-bases are designed to use our TRX Series raising fixtures which make installations and antenna servicing a one-man job.

US Tower carries as accessories many different sizes and strengths of masts which can be used with the HDX Series towers. The HDX-572MDPL and 589MDPL motorized towers provide dual level wind, positive pull down and heavy-duty gear box features. The HDX-589MDPL comes complete with the MCL-100 limit switch package included. All towers using MDP-750 and MDPL-1000 motor drives may use the RMC-1000 accessory limit switch package which allows the raising and lowering of your tower from the comfort of your ham shack or any remote location. MCL-100 is also available (see accessory page).

US Tower's special T-base design allows the tower to hinge for easy installation. US Tower's crank towers require no guying. The HDX Series towers are rated at 90 mph winds per TIA/EIA specifications. To assist you in getting a construction permit, IBC 2006 calculations are available for most towers.

HDX-538 SPECIFICATIONS

- Extended Height: 38 FT
 Min. Height: 21' 6"
 Transport Weight: 600 LBS
 Tower Sections: 2
 Sec. OD Top: 15"
 Sec OD Bottom: 18"

5



Structural Analysis Report

Structural Analysis: Self-Supporting Triangular Crank-Up Tower

Tower Model: HDX-538

Design Code: IBC 2006 (TIA/EIA-222-F)

Basic Wind Velocity: 90 mph 3 second gust, 76 mph fastest mile

Ice: None

Max. Allowable Antenna Wind Load (lbs):	409	
Max. Allowable Antenna Weight (lbs):	250	
Max. Allowable Antenna Wind Area (sq. ft.):	26.6	(All Round Members)
Max. Allowable Antenna Wind Area (sq. ft.):	15.2	(All Flat Members)

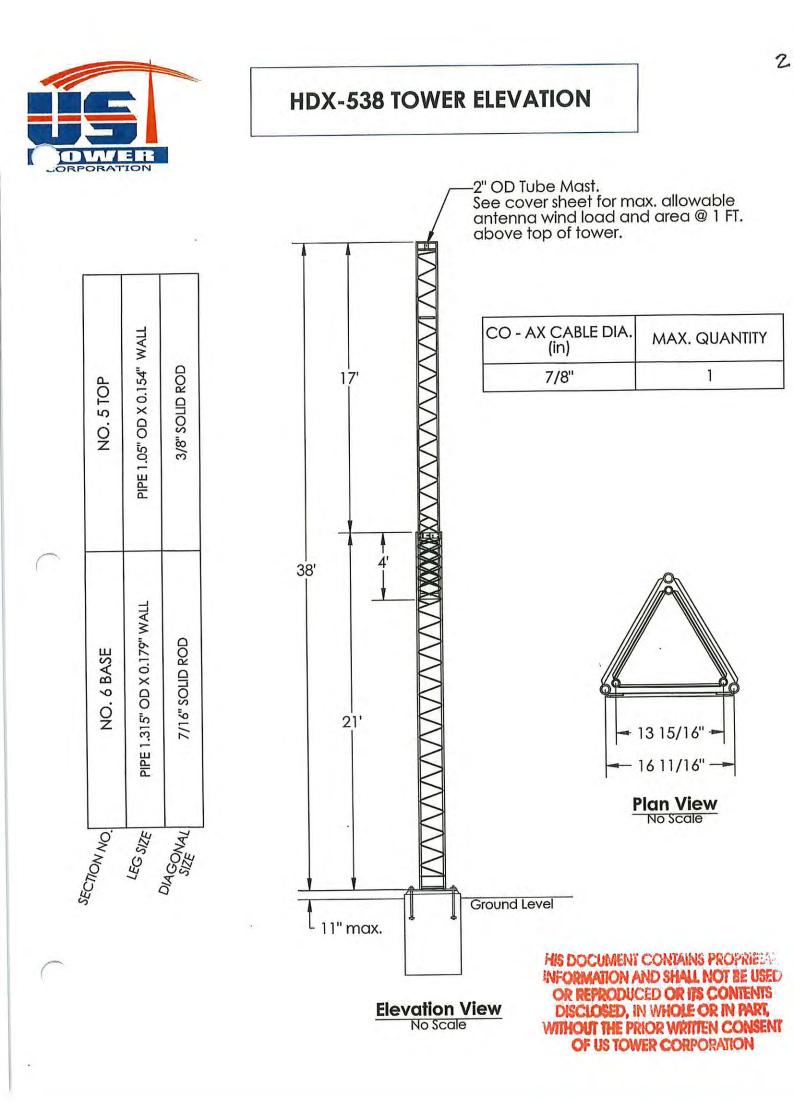
Note: The maximum antenna values shown above include the antenna, rotator, and any other items placed at the top of the tower. For purposes of these calculations the antenna was placed 1 ft. above the



Date Prepared: Prepared By:

Remigio Fernandez P.E.

1099 W. Ropes Ave - Woodlake, CA 93285 - Ph: 559-564-6000 THIS DOCUMENT CONTAINS PROPIETARY INFORMATION AND SHALL NOT BE USED OR REPRODUCED OR ITS CONTENT DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF US TOWER CORPORATION





General Notes:

HDX-538 **Tower Model:**

- 1. All work shall be in conformance with the requirements of the "International Building Code 2006" and "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures TIA/EIA-222-F", by the Telecommunications Industry Association.
- 2. The 2006 International Building Code requires the use TIA/EIA-222-F for tower design. TIA/EIA requires the use of the American Institute of Steel Construction, Specification for Structural Steel Buildings, June 1, 1989. (AISC 9th Edition). Consequently, all steel design was performed using the AISC 9th Ed.
- 3. All concrete shall have a minimum compressive strength of 2500 psi at 28 days unless noted otherwise. All concrete shall conform to the requirements of the International Building Code and referenced edition of ACI 318. Slump shall not exceed 4-1/2 inches.
- 4. Reinforcing steel shall be intermediate grade deformed bars conforming to ASTM A-615. No. 4 bars and smaller shall be Grade 40, No. 5 bars and larger shall be Grade 60. All reinforcing details, placement etc. shall conform to the requirements of the International Building Code and ACI 318. No welding allowed.
- 5. All reinforcing steel, anchor bolts, dowels and other inserts etc. shall be securely anchored in place, in the required positions, prior to pouring concrete.
- 6. Steel fabrication and erection shall conform to the requirements of the AISC Manual of Steel Construction and the Electronic Industries Association (as referenced in note 1 & 2 above).
- 7. All welding shall be performed by AWS certified welders for each type of weld used. (Using the GMAW (spray arc) welding process with ER70S-6 welding wire.
- 8. All tower section lift cables & guy cables shall be 7 x 19 Aircraft cable with the following minimum strengths:

Cable diameter (in)	Minimum Strength (lbs)		
3/16	4200		
1/4	7000		
5/16	9800		
3/8	14400		
7/16	17600		
1/2	22800		

- 9. This tower analysis is based the antenna being installed at a height of one foot above the top of the tower. The wind load of the antenna(s) shall not exceed the load shown in these calculations. The Owner of the tower shall assume full liability for verification of the antenna loading.
- 10. This tower is designed to be used in its fully extended position.
- 11. The design of the hoist system is not with in the scope of these calculations and shall be designed by others.
- 12. This tower has not been designed to meet any twist or sway criteria.
- 13. The Owner shall verify that the quantity and size of waveguide / Coax cables match the values used in these calculations.
- 14. The engineering and design of the antennas are not with-in the scope of these calculations.
- 15. Installations on hills, escarpments and other special wind areas is not with-in the scope of these calcuations.
- 16. US Tower Corp. recommends that the installation of this tower and its foundation be performed by a Professional, licensed Contractor with experience installing these types of structures.
- 17. The Contractor is responsible for conducting all construction in accordance with all Federal, State, OSHA, and Local laws and ordinances. The Contractor is also responsible for checking the site for underground facilities prior to the start of work.
- 18. US Tower Corp. and it's Engineers shall not be responsible for errors and omissions in the project not in conformance with these calculations and the Codes and Standards referenced here-in.
- 19. US Tower Corp. and it's Engineers accept no responsibility for field inspection during construction nor for the method of construction.
- 20. The Owner shall assume full responsibility & liability for the periodic inspection of all tower section lift cables & guy cables. Any cable with any sign of distress or excessive stretch shall be replaced immediately.
- 21. The information contained in these calculations is the property of US Tower Corp. and shall only be used to obtain an installation permit. Any other use shall be authorized by US Tower in writing prior to utilizing the information contained herein.

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Tower Model:

HDX-538

Governing Codes, Stresses, and Materials (Min.)

International Building Code TIA/EIA-222-F AISC Specification for Steel Bldgs ACI 318

Wind Loading (Governed by the TIA/EIA standard so used fastest mile speed in the calculations.)

Structural Steel (All plates, bars, angles)

Structural Pipe

Structural Tubing (HSS)

Welding

Hot-Dip Galvanizing Hardware

Bolts: Tower & Accessories

Reinforced Concrete

Reinforcing Steel

Anchor Rods

Foundation & Soils Lateral Bearing Pressure 2006 Edition (Occ. Cat. II)

AISC 9th Edition 2005 Edition

Basic Wind Speed 90 mph, 3 second gust 75 mph, fastest mile (Exposure C Terrain)

ASTM A36 (F-y = 36 ksi) (Min. F-y for plates - 42 ksi)

ASTM A53 Gd. B, A500 Gd. B (F-y = 50 ksi for tower legs)

ASTM A500 Gd. B (F-y = 46 ksi)

AWS D1.1-04 GMAW w/ ER70S-6 wire

ASTM A123 ASTM A153

ASTM A325

2500 psi strength @ 28 days

ASTM A615 Gd. 40 for #4 & smaller dia. Gd. 60 for \$5 & larger dia.

ASTM F1554 Gd. 36 or ASTM A-36

1500 psf Bearing (TL = DL+LL) 100 psf/ft of depth

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Tower Section Properties

Code: EIA-222-F			Note: If a to	ower section	n is not in the oth and top &	tower bei	ng designed	then
All units are in lbs. and	inches U.O.	Ν.	input 0 for s	section leng	gin and top of	Dottomia	pionguloi	
Ice:			Tower M	odel	HDX-538			
De la companya de la	(pcf)		Tower	ouer.	1107-000			
101101 110.9.1.1. ()	38		1.1.1		-	0	0	10
Tower section No.:	<u>3</u>	4	<u>5</u>	<u>6</u>	Z	<u>8</u>	<u>9</u>	10
Lgth. of Section (ft):	0	0	21	21	0	0	0	0
Face width (C.L.):	8.95	11.47	13.94	16.68	19.94	23.725	28.25	34.25
Leg dia.:	1.05	1.05	1.05	1.315	1.66	1.9	2.375	2.875
Leg Thkn's: Spec.	0.154	0.154	0.154	0.179	0.191	0.2	0.218	0.276
Leg Thkn's: Design	0.143	0.143	0.143	0.166	0.178	0.186	0.203	0.257
Leg F-y:	50000	50000	50000	50000	50000	50000	50000	50000
Web dia:	0.375	0.375	0.375	0.4375	0.5	0.625	0.75	0.875
	36000	36000	36000	36000	36000	36000	36000	36000
Web F-y:	15	15	15	15	15	30	30	30
Web spacing: (leg unsupported length)	10	10	10					
Web "phi":	37.3	28.37	22.55	18.46	14.15	30.35	26.12	19.8
Web clear width:	7.90	10.42	12.89	15.37	18.28	21.83	25.88	31.38
Web L:	9.93	11.84	13.96	16.20	18.85	25.29	28.82	33.35
No. of diagonal webs:		0	40	40	0	0	0	0
					0	0	0	0
Top Lap (ft):	0	0	0	4	0	0	0	0
Bottom Lap (ft): No. of additional	0	0	4	0	0	0	U	U
	0	0	7	7	0	0	0	0
lap diagonal webs:	4	4	5	4	6	8	6	8
Top plate depth:	2.5	2.5	3	6	5	8	8	8
Bot plate depth: Plate Thkn's:	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
Plate mkns.					ALC: NO			
and the second second			No Ice Cond	lition		Green = V	With Ice Cond	ition
Projected Areas Out	side Lap Ar 0	eas: 0	17	17	0	0	0	0
Section L (ft) Used:	-	0.000	0.451	0.571	0.000	0.000	0.000	0.000
Section PA (sqft/ft):		0.000	0.451	0.571	0.000	0.000	0.000	0.000
Section PA (sqft/ft):	0.000	0.000	0.401	01011			And the Party of the last	
Projected Areas at L			0.000	1	0.000	0.000	Lap9+10:	0.000
Lap PA (sqft/ft):	Lap 3+4:	0.000	0.000	Lap 6+7:			Laps IV.	0.000
	Lap 4+5:	0.000	0.000	Lap 7+8:	and the second second second second	0.000 0.000		0.000
	Lap 5+6:	<u>1.295</u>	1.295	Lap 8+9:	0.000	0.000		
Weight:					de la			
Legs:	0	0	93	137	0	0	0	0
Webs:	0	0	63	98	0	0	0	0
Anchors:	0	0	36	53	0	0	0	0
Misc.:	0	0	19	29	0	0	0	0
Total weight:	<u>0</u>	<u>0</u>	<u>211</u>	<u>318</u>	<u>0</u>	0	0	0
Total weight:	0	<u>0</u>	211	318	<u>0</u>	<u>0</u>	<u>0</u>	0

Note: 1. Program assumes that all lap areas have x-braced webs in all tower sections. This will result in slightly conservative design values if x-braces are not in the lap area.

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Tower Loading - Shear & Moments

Tower Model: HDX-538

Design per EIA-222-F

Wind velocity (mph): 76

							No IC	E Conditio	n
Tower <u>Section</u>	Projected <u>Area</u>	Analysis <u>height (ft)</u>	z <u>height (ft)</u>	<u>K-z</u>	<u>G-h</u>	q-z <u>(basic)</u>	w <u>(plf)</u>	Shear <u>(lbs)</u>	Moment <u>(ft-lbs)</u>
Mast	0.670	39	39	1.049	1.238	14.79	12.9	13	13
3	0.000	38	38.5	1.045	1.238	14.79	0.0	13	26
3&4	0.000	38	38	1.041	1.238	14.79	0.0	13	26
4	0.000	38	38	1.041	1.238	14.79	0.0	13	26
4&5	0.000	38	38	1.041	1.238	14.79	0.0	13	26
5	0.538	21	29.5	1.000	1.238	14.79	9.9	180	1669
5&6	1.382	17	19	1.000	1.238	14.79	25.3	282	2593
6	0.659	0.1	8.55	1.000	1.238	14.79	12.1	485	9074
6&7	0.088	0	0.05	1.000	1.238	14.79	1.6	486	9123
7	0.000	0	0	1.000	1.238	14.79	0.0	486	9123
7&8	0.000	0	0	1.000	1.238	14.79	0.0	486	9123
8	0.000	0	0	1.000	1.238	14.79	0.0	486	9123
	0.000	Ő	Ő	1.000	1.238	14.79	0.0	486	9123
8&9	0.000	õ	õ	1.000	1.238	14.79	0.0	486	9123
9	0.000	0	0	1.000	1.238	14.79	0.0	486	9123
9&10 10	0.000	0	0 0	1.000	1.238	14.79	0.0	486	9123

Section	Weight		1. 1 <= G-h <= 1.25		
	(lbs)	Lift cable	2, 1 <= K-z <= 2.58		
Antenna	250	force (lbs)			
Co-ax Wt:	12	(at top of tower)			
3	0	0	Co-ax Cable Data:		
4	0	0	Cable dia. (in):	0.875	
5	211	523	No. of cables:	1	1
6	318	1045	C-a:	1.2	Table 3 - EIA
7	0	0	Cable Proj. Area	0.088	<u>(sq.ft. / ft.):</u>
8	0	0			
9	0	0	Wght. / Cable (lb/ft):	0.30	
10	0	0	Total Wght (lb):	12	

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6



Lift Cable Analysis

Note: All units are in pounds.

Tower Data:

No. of twr. sections:	2
Antenna weight (lb):	250
Ant. mount wt. (lb):	50
Accessories wt. (lb):	0
Coax cable wt. (lb):	12

Tower Section:	Section Wt. (lb):	Vert. Component of Guy Cables (lb):
5	211	0
6	318	0
7	0	0
8	0	0
9	0	0
10	0	0

Pulley Frame - Tower Section: 5 312 (Force on Section) F-v:

Pulley Frame - Tower Section: 6

Cable dia (in):		0.25
Cable MBS:		7000
No. of face	es w/cable:	1
Sum F-v:	1045	(Force on Section)
CF-tot:	523	(At Anchor in above section)
CF-face:	523	(At Anchor in above section)
Cable Safety Factor:		13.39

Pulley Frame - Tower Section: 7

0.25 Cable dia (in): 7000 Cable MBS: 1 No. of faces w/cable: 2 Bottom locked out? 1=y, 2=n: (Force on Section) Sum F-v: NA (At Anchor in above section) CF-tot: NA (At Anchor in above section) CF-face: NA Cable Safety Factor: NA

Pulley Frame - Tower Section: 8

Cable dia (in):	0.25
Cable MBS:	7000
No. of faces w/cable:	3

Sum F-v:	NA	(Force on Section)
CF-tot:	NA	(At Anchor in above section)
CF-face:	NA	(At Anchor in above section)
Cable Safety Factor		NA

Pulley Frame - Tower Section: 9

0.25 Cable dia (in): 7000 Cable MBS: 4 No. of faces w/cable: Bottom locked out? 1=y, 2=no: 2 Sum F-v: NA (Force on Section) CF-tot: NA (At Anchor in above section) (At Anchor in above section) CF-face: NA **Cable Safety Factor: NA**

Pulley Frame - Tower Section: 10 00

(in):	0.25		
S:	7000		
es w/cable:	4		
NA	(Force on Section)		
NA	(At Anchor in above section)		
NA	(At Anchor in above section)		
ety Factor	NA		
	S: es w/cable: NA NA NA		

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Max. Allowable Antenna Area

Based on Leg Compressive Strength

HDX-538 **Tower Model:**

Reference "Tower Section Property" sheets for section data.

Tower Section	Analysis Height (ft)	KL/r	F-a (psi)	Allow. 'P' (lbs) 13927	Actual 'P' (lbs) 40	Allow. Mom. ft-lb 8883	Actual Mom. ft-lb 26	P-antenna (lbs) 4429
3	38	41.6	34136 34136	13927	31	11384	26	5679
4	38	41.6 41.6	34136	13927	1833	13835	1669	640
5	21 0.1	32.9	35709	21449	7887	25400	9074	409
6	0.1	25.6	36903	30527	6340	43929	9123	
8	õ	44.3	33614	33666	5328	57641	9123	
9	0	35.0	35344	48901	4475			
10	0	29.0	36356	76761	3691	189732	9123	10000

Allow. Antenna Wind Load (lb):	409
Allow, Antenna Area (sq. ft.):	16.4

NOTE:

1. Allow. Moment = 0.866 * (face width / 12)(allow. axial load - lift cable force / 3)

2. Allow. Antenna Wind Load = (allow. mom. - actual mom.) / (antenna hgt - analysis hgt.)

3. Allow. Antenna Area = allow. ant. wind load / (1.3 *K-z*G-h* q-z)

4. P-antenna column - the value of 10000 means that this tower section was not used on this tower.

5. The tower height is shown in analysis height until you get down to the actual first tower section

used in this tower.

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Max. Allowable Antenna Area Based on Webs - Outside Lap Areas

Tower Model: HDX-538

Reference "Tower Section Property" sheets for section data.

Tower Section	Analysis Height (ft)	Web 'L' (in)	KL/r	F-a (psi)	Allow. 'P' (lbs)	Actual 'P' (lbs)	Allow. F-h (lbs)	Actual Shr (lbs)	P-antenna (lbs)
3	38	11.25	96.0	13606	1503	9	1195	13	2058
4	38	13.04	111.2	11677	1290	8	1135	13	1953
5	21	15.09	128.8	12002	1326	113	1224	180	1940
6	0.1	17.58	128.6	12036	1809	295	1716	485	2487
7	0	20.56	131.6	11495	2257	289	2189	486	10000
8	0	27.49	140.8	10049	3083	325	2660	486	10000
9	0	31.46	134.2	11049	4881	312	4383	486	10000
10	0	36.40	133.1	11235	6756	298	6356	486	10000

Allow, Antenna Wind Load (lb):	1940
Allow. Antenna Area (sq. ft.):	77.7

NOTE:

1. Allow. F-h = allow. P * cos(phi). = Allow. shear in one face of tower.

2. Allow. Antenna Wind Load = 2 * cos(30) * allow. F-h - actual shear.

3. Allow. Antenna Area = allow. ant. wind load / (1.3 *K-z*G-h* q-z)

4. P-antenna column - the value of 10000 means that this tower section was not used on this tower.

5. The tower height is shown in analysis height until you get down to the actual first tower section

used in this tower.



Max. Allowable Antenna Area Based on Webs in Lap Areas

Tower Model: HDX-538

Reference "Tower Section Property" sheets for section data.

Tower	Analysis	Web 'L' (in)	KL/r	F-a (psi)	Allow. 'P' (lbs)	Actual 'P' (lbs)	Allow. Mom ft-lb	Actual Mom ft-lb	P-antenna (lbs)	
Section	Height (ft)		96.0	17966	3968	°0	21819	26	10897	
3	38	11.25	111.2	15337	1694	4	10274	26	5124	
4	38	13.04		17868	3947	130	24532	1669	1203	
5	21	15.09	96.6	17891	5379	690	33406	9074	10000	
6	0.1	17.58	96.5	17518	6879	679	44271	9123	10000	
7	0	20.56	98.7	16344	10029	763	58014	9123	10000	
8	0	27.49	105.6	17185	15184	733	92512	9123	10000	
9	0	31.46	100.7		20838	700	133887	9123	10000	
10	0	36.40	99.8	17327	20000	100				

Allow. Antenna Wind Load (lb):	1203
Allow, Antenna Area (sq. ft.):	48.2

NOTE:

- 1. Allow. Moment = allow. P * cos(phi) * 8 * cos(30).
- 2. Allow. Antenna Wind Load = (allow. mom. act. mom.) / (antenna hgt. analysis hgt.).
- 3. Allow. Antenna Area = allow. ant. wind load / (1.3 *K-z*G-h* q-z)
- 4. P-antenna column the value of 10000 means that this tower section was not used on this tower or the tower section is the base section.)
- 5. The tower height is shown in analysis height until you get down to the actual first tower section used in this tower.

Maximum Antenna Wind Load and Wind Area:

(Ref. this sheet and the previous 2 sheets.)

Allow. antenna Wind Load (lb): Allow. antenna Area (sq. ft.): Allow. antenna Area (sq. ft.): Allow. antenna Area (sq. ft.):	 409 16.4 (w/ appurtenance force coefficient = 1.3) 15.2 (w/ appurtenance force coefficient = 1.4, i.e. all flat members) 26.6 (w/ appurtenance force coefficient = 0.8, i.e. all round members)
--	--



Tower Section No. 5 - Analysis

Tower Model: HDX-538

Shear (lb):	590	Moment (ft-lb):	9442	
Lift Cable Force (lb):	523	Panel Height (in):	15	
Face Width (in):	13.94	Lap length (ft):	4	
		Lap X Braced? Y=1, N=2	1	2
Web Analysis:		Web Analysis - Lap Area	Lap shear (lbs):	2361
Dia. (in):	0.375	Dia. (in):	0.375	
F-y (psi):	36000	F-y (psi):	36000	
Area(in ²):	0.110	Area (in^2):	0.110	
L (in):	15.09	L (in):	15.09	
r (in):	0.094	r (in):	0.094	
K:	0.8	K:	0.6	
K. KL/r:	128.8	KL/r	96.6	
0	126.1	C-c:	126.1	
C-c:	3337	Actual f-a (psi):	8349	
Actual f-a (psi):	12002	Allow, F-a (psi):	17868	
Allow. F-a (psi):		Web CSI:	0.47	
Web CSI:	0.28 0.188	Weld size (in):	0.188	
Weld size (in):	0.100	Weld L (in):	0.5	
Weld L (in):		Act. weld 'f' (lb/in):	1844	
Act. weld 'f' (lb/in):	737	Allow weld 'F' (lb/in):	3722	
Allow. weld 'F' (lb/in):	3722	Weld CSI:	0.50	
Weld CSI:	<u>0.20</u>	Weld Col.	0.00	
Leg Analysis:				
Dia. (in):	1.05			
Thk. (in):	0.14322			
F-y (psi):	50000			
Area(in^2):	0.408			
L (in):	15			
r (in):	0.325			
K:	0.9			
KL/r:	41.6			
C-c:	107.0			
Leg Comp. load (lb):	9560			
Actual f-a (psi):	23433			
Allow F-a (psi):	34136			
Leg CSI:	0.69			

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Tower Section No. 6 - Analysis

Tower Model: HDX-538

Shear (lb):	895	Moment (ft-lb):	25400	
Lift Cable Force (lb):	1045	Panel Height (in):	15	
Face Width (in):	16.68	Lap length (ft):	4	
1 400 111411 (11)		Lap X Braced? Y=1, N=2	1	
Web Analysis:		Web Analysis - Lap Area	Lap shear (lbs):	2361
Dia. (in):	0.4375	Dia. (in):	0.4375	
F-y (psi):	36000	F-y (psi):	36000	
Area(in^2):	0.150	Area (in ²):	0.150	
L (in):	17.58	L (in):	17.58	
	0.109	r (in):	0.109	
r (in): K:	0.8	K:	0.6	
K. KL/r:	128.6	KL/r	96.5	
	126.1	C-c:	126.1	
C-c:	3622	Actual f-a (psi):	6590	
Actual f-a (psi):		Allow. F-a (psi):	17891	
Allow. F-a (psi):	12036	Web CSI:	0.37	
Web CSI:	0.30	Weld size (in):	0.25	
Weld size (in):	0.25	Weld L (in):	0.625	
Weld L (in):	0.625	Act. weld 'f' (lb/in):	1585	
Act. weld 'f' (lb/in):	871	Allow weld 'F' (lb/in):	4950	
Allow. weld 'F' (lb/in):	4950	Weld CSI:	0.32	
Weld CSI:	<u>0.18</u>	weiu coi.	0.02	
Leg Analysis:				
Dia. (in):	1.315			
Thk. (in):	0.16647			
F-y (psi):	50000			
Area(in ²):	0.601			
L (in):	15			
r (in):	0.410			
K:	0.9			
KL/r:	32.9			
C-c:	107.0			
Leg Comp. load (lb):	21449			
Actual f-a (psi):	35709			
Allow F-a (psi):	35709			
Leg CSI:	1.00			

THIS DOCUMENT CONTAINS PROPIETARY INFORMATION AND SHALL NOT BE USED OR REPRODUCED OR ITS CONTENT DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF US TOWER CORPORATION

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Tower Base Connection

Tower Model: HDX-538

Shear (lbs):		895	Leg Comp.		21449			
Moment (ft-lbs	s):	25400	Leg Tensio	n (Ibs):	20753			
Lift Cable forc		1045	Leg O.D. (ii	n):	1.315			
Face width (in		16.68						
Tabo Maar (m	<i>.</i>							
Tab Plate to L	ed.		C.L. bolt to	leg (in):	1.25	Sec. 1		
Plate width (in	C 1 4	2.5	Bolt dia. (in):	0.75 (4	(325N)		
Plate height (i		7	No. of bolts): -	3			
Plate Thkn. (in		0.375	Dist. betwe	en bolts:	2			
Flate Think (in							2.244	
Bolt force (lbs	·)·	12480	Weld tab to	b leg:	Weld size	ə (in):	0.1875	
Allow. bolt shi		12370	Moment (ir	n-lbs):	40914			
	g check		Weld S-x (in^2):	16.333			
	olt CSI:	1.01	Weld stres		2955		and the states of	
DU		1.0	Allow Stres	ss (lbs/in):	3712		Weld CSI:	0.80
Tab Plate to E	Rase'							
Plate F-y (psi		36000	KL/r:		17		and a second	
Plate width (in		3.5	F-a (psi):		27726		f-a (psi):	9805
Plate height (1	7.75	P-allow (lb):	60651		F-e (psi):	540116
Plate Thkn. (i		0.625	Moment (in	n-lbs):	21451		Sx (in^3):	1.276
Bolt ecc. (in):		0.9375	h/t:		5.6			
Shear ecc. (iii).		4.5	F-b(psi):		31680			
Distance from	n firet	110	Plate CSI:	0.98				
bolt to base p		2.5						
DOIL TO DASE P	Jiato.	110						
Weld tab to b	200'	Weld size (in):	0.3125	5				
Weld S-x (in^		4.083	Moment (i	n-lbs):	20798			
Weld stress (5893						
Allow Stress	the second s	6187	Weld CSI	0.95				
Allow Stress	(ibo/in).							
Base Plate A	Assembl	v:						
Top Plate:		Bot. Plate:						
W (in):	3.500	W (in):	3.500					
L (in):	5.750	L (in):	5.750				0000	
Thkn. (in):	0.375	Thkn. (in):	0.500	Concrete b	earing:	f-c (psi):	2000	
This is they.	1412112			f-p (psi):		1066	001	0.57
Combined P	late Pro	nerties:		F-p (psi):		1867	CSI:	0.57

Combined Plate Properties:			F-p (psi):		1867 CS	il: 0.5
Top Plate: Area:	1.3125).6875	Bot. Plate: Area: Y-bar (in):	1.7500 0.2500	Centroid: I (in^4): C (in):	0.438 0.195 0.438	

Moment - from comp	(in-lbs):	15417
f-b (psi):		34519
F-b (psi):		36000
	CSI:	0.96

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11	
N I	-

Anchor Bolt Anchorage

Tower Model: HDX-538

Date: 12/22/2009 ACI 318-05 App. D Tension Anchorage Calculations - Cast in Place Straight Anchors

All units are pounds and inches unless noted otherwise.

Anchorage Description: 1-1" dia, F1554 Grd. 36 or A-307 anchor rods

Anchor Pullout Strength (ACI D5.3) 30020

Min. distance between multiple anchors (input 0 for one anchor)

Side Face Blowout Input

Spacing:

1.0 1.4

phi:

AdfF-c,P:

Edge distance perp. To c-min. Min. edge distance considering all fasteners Factor for single anchor if c2 < 3(c-min) Factor for multiple anchors if c-min < 4(h-ef)

10.250 0.796 1.000 0.00

> AdjF1: AdjF2:

c-min:

S

Use 0.75 if supplemental reinforcement is provided Use 0.70 is supplemental reinforcement is not provided

Assumed cracked at service load levels

Can used 1.4 if is uncracked

and anchor spacing is < 6(c-min) Use 0.76 if supplemental reinforcement is provided Use 0.70 is supplemental reinforcement is not provided

1.0

phi:

42028 :ud-N id-Z

Note: If Ca1 is >0.4*h-ef then blowout does Concrete Side-Face Blowout, Tension not occur. 79953 N-sb:

Anchor Design Strength - LRFD 27258 Breakout: 42774 Steel:

29420 Pullout:

(Note: If supplemental reinforcement is provided then the concrete strength limit does not apply, App. D D.4.2.1.) Blowout: 55967

ACI D.8.1 Design Controlled By: Steel Tension Min. center to center of anchor spacing (in): 4 Min. edge distance is same as min. cover per ACI 7.7. 27258 Lbs 19470 Lbs ASD Design Strength: LRFD Design Strength:

> 1. For normal weight concrete only. Notes:

2. Anchors shall be either a headed bolt or have nuts and a bearing plate at the embed end as indicated above.

3. ACI Section D.5.2.3 is not included in this spreadsheet. (i.e. End of wall applications are not covered.)

4. If the design is controlled by concrete failure (i.e. non-ductile failure) then the Design Strengths controlled by concrete must be at least 2.5 times the factored forces transmitted by the attachment. (2006 IBC 1908.1.16) Alternatively, the steel anchor "or the attachment that the anchor is

connecting to the structure shall be designed so that the attachment will undergo ductile yielding at a load level corresponding to anchor forces no connecting to the structure shall be designed to the anchors' determined above. If "Steel Tension" controlled above then the connection is considered ductile and no further adjustments etc. are required. (Also see note 6.) and no further adjustments etc. are required. (Also see note 6.) 5. Any supplemental reinforcing shall have $F_Y = S0,000$ psi min. 6. Per ACI D.3.3 if anchor design does not include seismic loads then the design does not have to be controlled by steel ductility.

A DE LES CONTENT DISCLOSED IN WHOLE OR IN PART. WITHOUT THE PRIOR WRITTEN CONSENT OF US TOWER CORPORATION

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HDX-538

Tower Model

Foundation Design

I ower wodel:	DX-220		
Tower Reactions:		Foundation Design Reac	tions:
Moment (ft-lbs):	25400	Moment (ft-lbs):	33796
Shear (lbs):	895	Shear (lbs):	1164
Lift Cable Force (lbs):	1045	Lift Cable Force (lbs):	1359
Modification Factor:	1.3		
(Reg'd by EIA-F 3.1.1	6.1)	Concrete f-c' (psi):	2500
Tower Face Width(in):	16.68		4
Distance from ground		Soil Design Parameters:	
to top of concrete (ft):	0.667	Allow. Lateral bearing (page 1)	
Square ft'g width (ft):	4	Allow. Soil bearing (psf):	1500
Footing depth (ft):	7	Design is for non-consta	ined condition per IBC reqmt's.
H (ft):	29.05	Allow. bearing (psf):	3300 Increased 20% for ea.
S-1:	467	Act. bearing (psf):	1115 ft. of depth
(Increased S1 by 2x pe ground surface.)		for isolated footing not adverse	ely affected by 1/2" motion at
A:	1.031		
Depth req'd (ft):	6.3	Max. Moment in Footing	(ft-lbs): 39320
Check concrete tensile	stress: (neglect	outer 2" of footing)	
S-x (in^3):	14197		and a second
f-t (psi):	53		inforcing is not req'd. Use
F-t (psi):	138	minimal reinforcing.	
CSI:	0.39	rho: 0.0018	
		A-s req'd (sq. in.):	4.15
		Rebar dia (in):	0.875
		No. of bars provided:	8
		A-s provided (sq. in.):	4.81 OK
Anchor Bolt Anchorage			
Anchorage Tension Des		27118 (LRFD level	force)
(See Anchor Bolt And	horage page fo	r anchorage design)	

(See Anchor Bolt Anchorage page for anchorage design)

Summary:

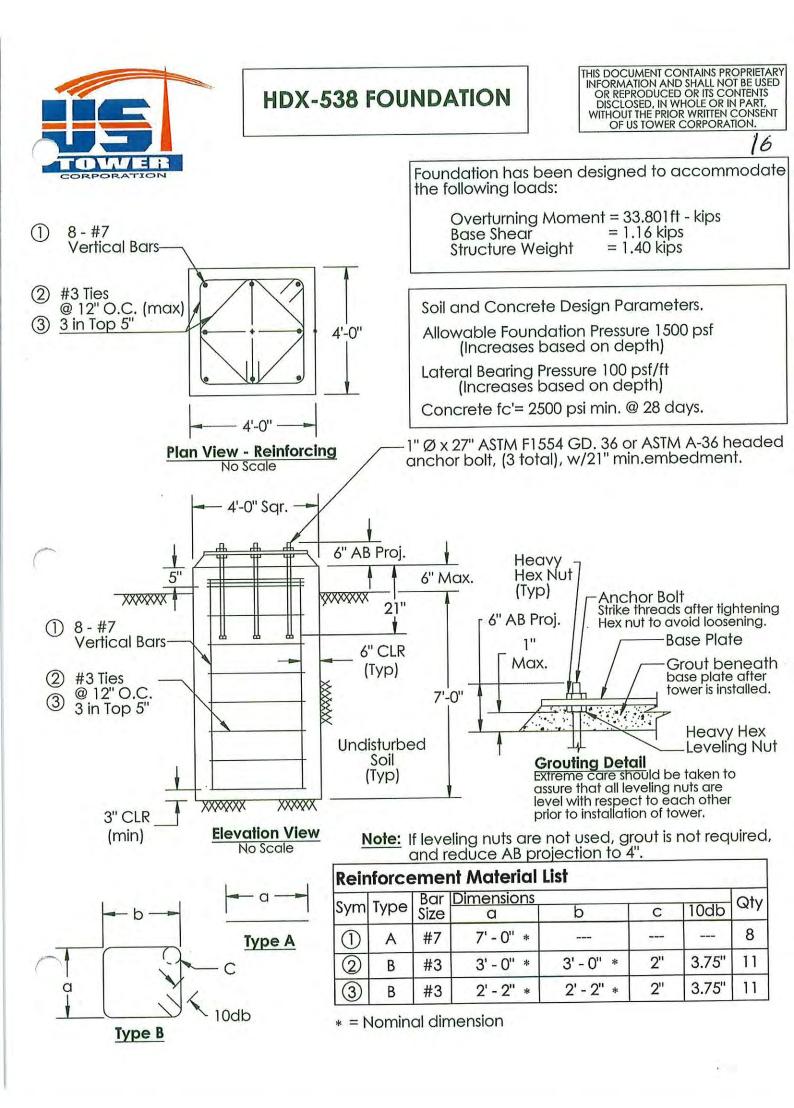
Use foundation 4 ft. square by 7 ft. deep (below undisturbed soil).

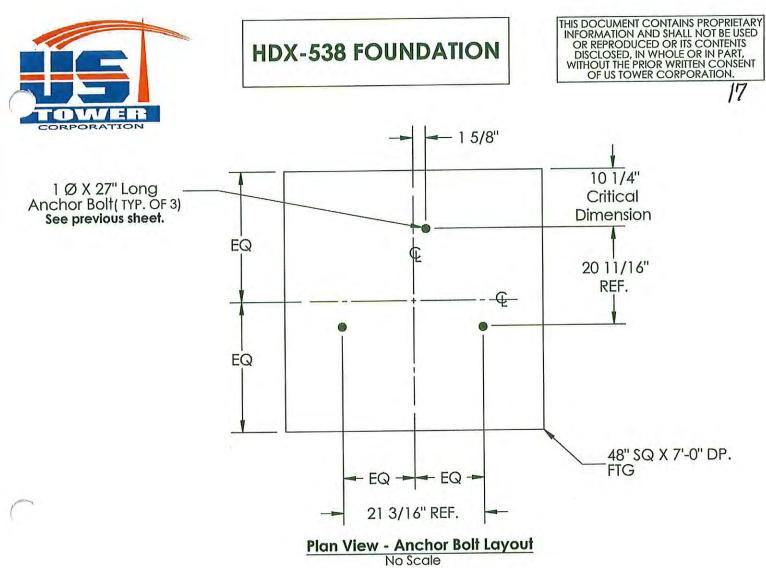
Reinforce foundation with 8 #7 vertical bars (total) with #3 ties at 12" on center, and 3 ties in the top 5". Use 1 vertical bar at each corner of the foundation and one bar at the middle of each face of the fdn. Use 1" dia. ASTM F1554 Gd. 36 or ASTM A-36 galvanized anchor bolts, 27" long.

Total of 3 anchor rods, one near each tower leg with a minimum embedment of 21". Use heavy hex nuts.

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"REF" dimensions are provided for reference only. Use the tower base plate assembly to locate anchor bolts.

Foundation Notes:

1. All concrete shall have a minimum compressive strength of 2500 psi at 28 days unless noted otherwise. All concrete shall conform to the requirements of the International Building Code and the referenced edition of ACI 318. Slump shall not exceed 4-1/2 inches.

2. Reinforcing steel shall be intermediate grade deformed bars conforming to ASTM A-615. No. 4 bars and smaller shall be Grade 40, No. 5 bars and larger shall be Grade 60. All reinforcing details, placement etc. shall conform to the requirements of the International Building Code and ACI 318. No welding allowed.

3. All reinforcing steel, anchor bolts, dowels and other inserts etc. shall be securely anchored in place, in the required positions, prior to pouring concrete.

The owner is responsible for verifying the soil at the site provides a minimum safety factor of 2.0 for the soil parameters used for this design.
 The allowable lateral soil bearing value was doubled as allowed per 2006 IBC section 1805.1 for isolated foundations

not adversely affected by a 0.5" motion at the ground surface due to short term lateral loads. 6. The foundation design does not consider the effects of ground water. 7. The contractor is responsible for safe excavations in accordance with all Federal & Local laws and ordinances and

OSHA requirements.

8. The contractor is responsible for the correct placement of all anchor bolts. US Tower recommends that the anchor bolts be placed using the tower base plate assembly provided with the tower. (The base plate assembly can be provided before the tower if desired.)

9. The foundation shall be one continuous pour such that cold joints do not develop. The contractor is responsible for verifying adequate concrete coverage is provided for all reinforcement to avoid the potential for rebar corrosion. Concrete shall be consolidated using vibratory methods.

10. The top of the footing shall be troweled level and smooth (or have a broom finish if preferred) in the area of the tower. Water shall be directed away from the tower base and anchor bolts outside of the tower area.

11. See General Notes sheet (earlier in calcs) for additional information & requirements.

SAFE**built**.

10/05/2021

Attention: Village of Bayside, WI Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
Thomas Houck	New 8' X 12' 96 sq. Ft. storage shed
PROJECT ADDRESS: 9433 N Fairway Dr	

. .

I have reviewed the proposed new shed for compliance with the Village's ordinances and have determined the following for consideration

Sec. 125-90. - "B" residence district regulations.

(4) A side yard of not less than ten feet shall be provided for on each side of every building.

(5) A rear yard of not less than 20 feet shall be provided for every building, except one of not less than ten feet shall be provided for a building used for or classified as an accessory use.

1. There are no measurements on the survey to confirm setbacks, the proposed location appears to meet the required setbacks when the house and front yard setbacks are calculated to the lot depth

2. Confirms with the Impervious requirements

3. Meets the required size limitation.

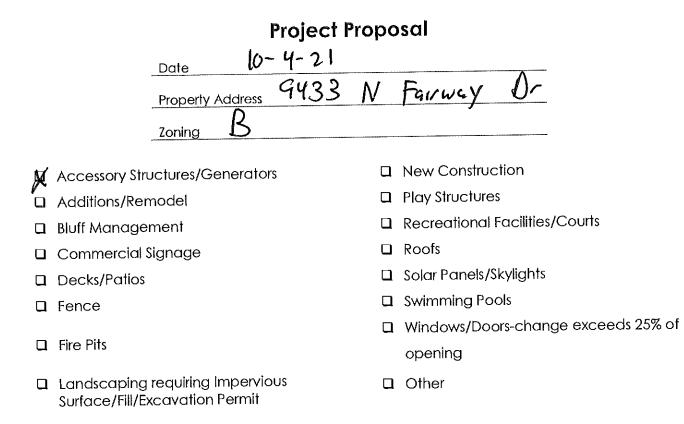
104-2(a)(2) Architectural Review Committee: Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix SAFEbuilt Wisconsin Operations Manager

Bayside ARC Review



Proposed project details (type of work, size, materials, etc.):

Garden shed placed upon 18' X 14' concrete slab in behind garage backyard

**************** For Office Use Only ***************

Yes	No	
	D	Color photographs showing project locatian, elevations and surrounding views
Q	ü	Two (2) complete sets of building plans (including elevations and grading)
Q	Q	Survey
a	٦	Samples or brochures showing materials, colors and designs
a		Application Fee
ū	D	Parcel Number
	۵	ARC Agenda Date:
		Building Permit
0	Q	Fill Permit
D	a	Impervious Surface Permit
D	Q	Plan Commission/Conditional Use Permit
0		Tax Key Number
	a	Right-of-Way/Excavation Permit
0	a	Variance Required

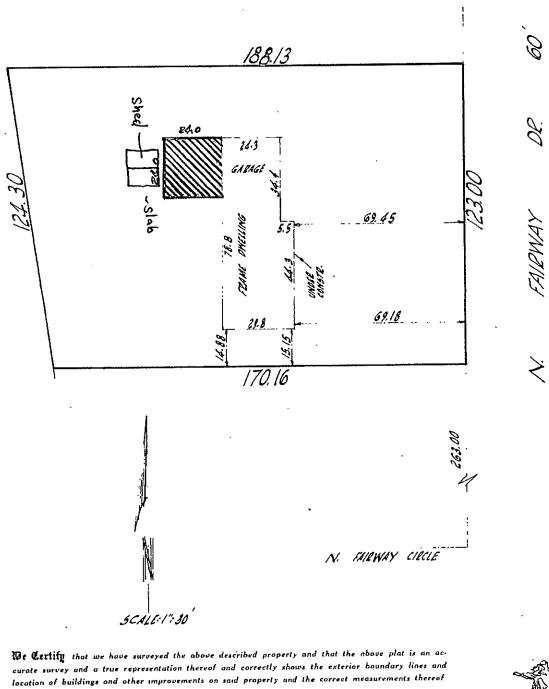
16-0147

Plat of Survey

Known as North Fairway Drive, in the Village of Bayside, Wisconsin Lot 3 in Block 4 in NORTH SHORE EAST, being a Subdivision of parts of the N W 1/4 of Section 4 and of the N E 1/4 of Section 5, T 8 N R 22 E, in the Village of Bayside, Milwaukee County, Wisconsin

August 23, 1968

Survey No. 121868-M

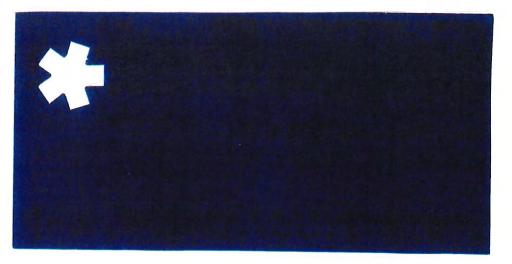


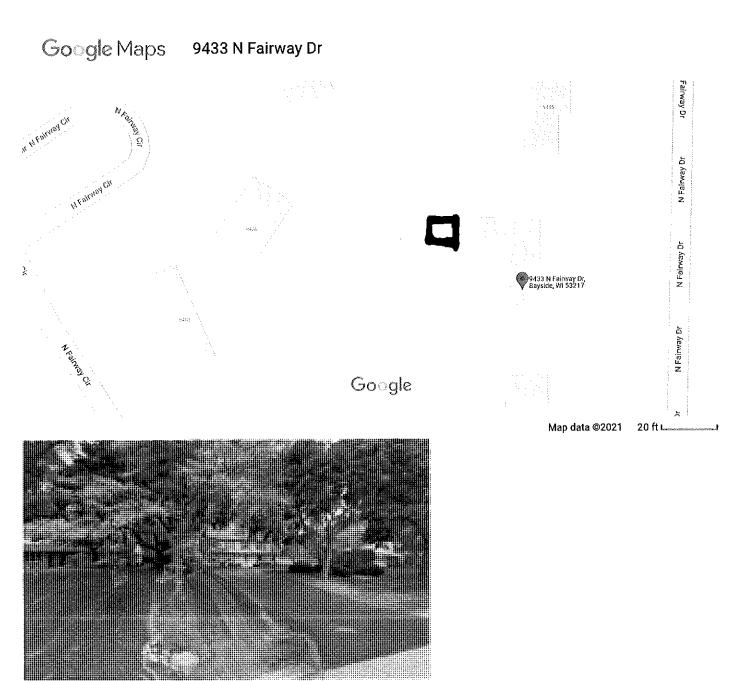
NATIONAL SURVEY SERVICE INC. IN BCONST CIVIL ENGINEERS AND SURVEYORS

Kenneth & Berke-SURVEYOR



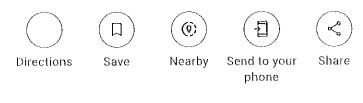






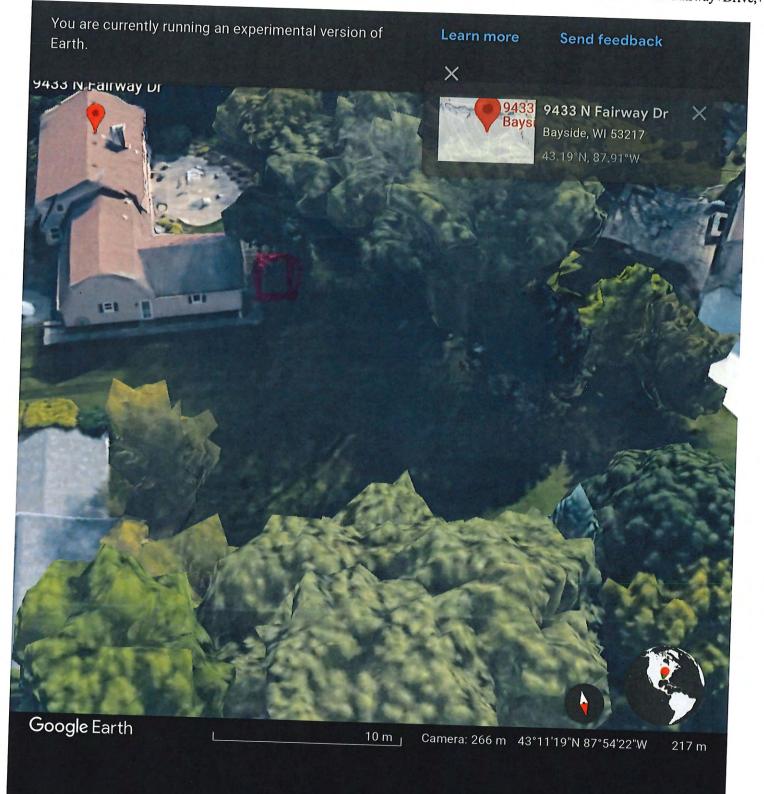
9433 N Fairway Dr

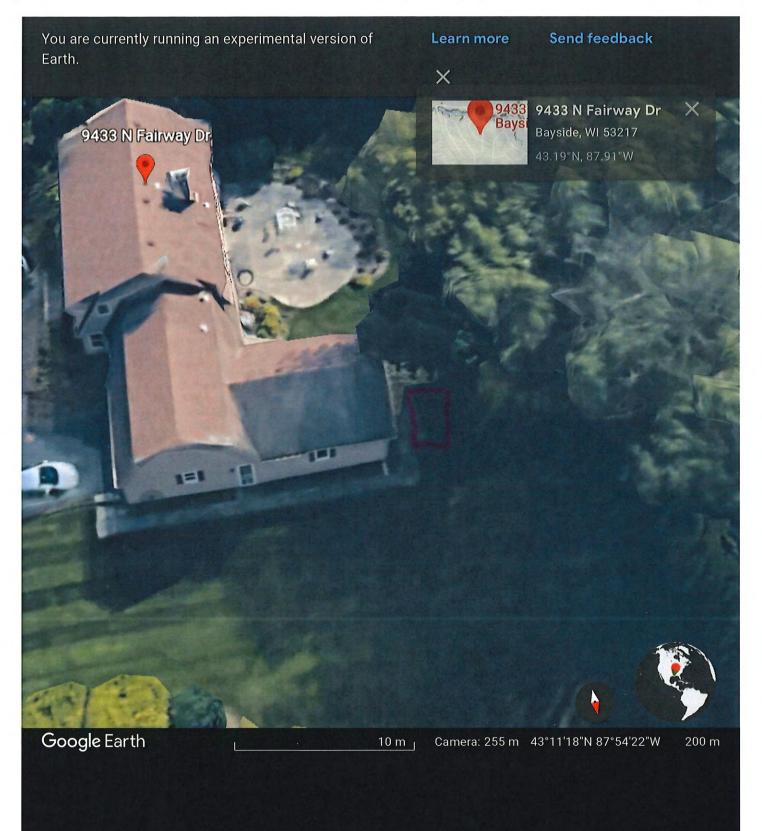
Building



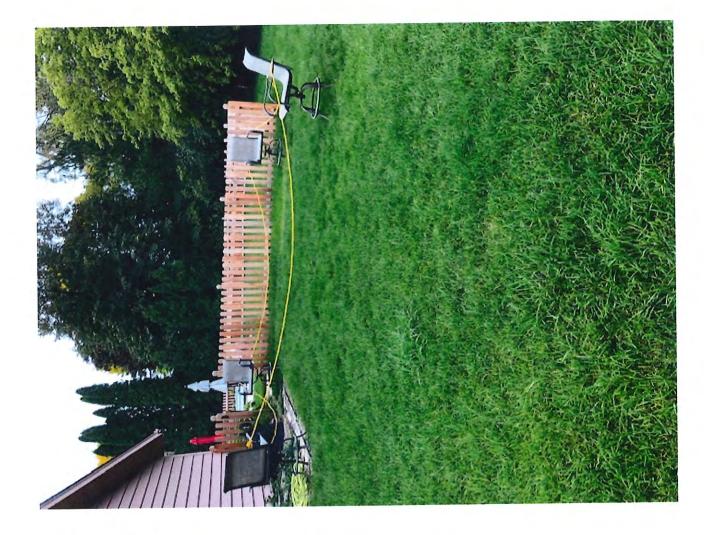
(9) 9433 N Fairway Dr, Bayside, WI 53217

Photos





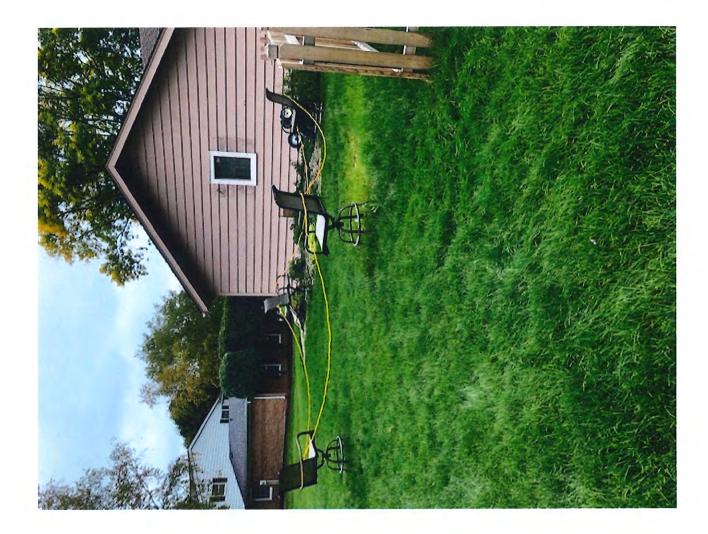
From: Thomas Houck Sent: Monday, October 4, 2021 11:19 AM To: houcks@sbcglobal.net Subject:

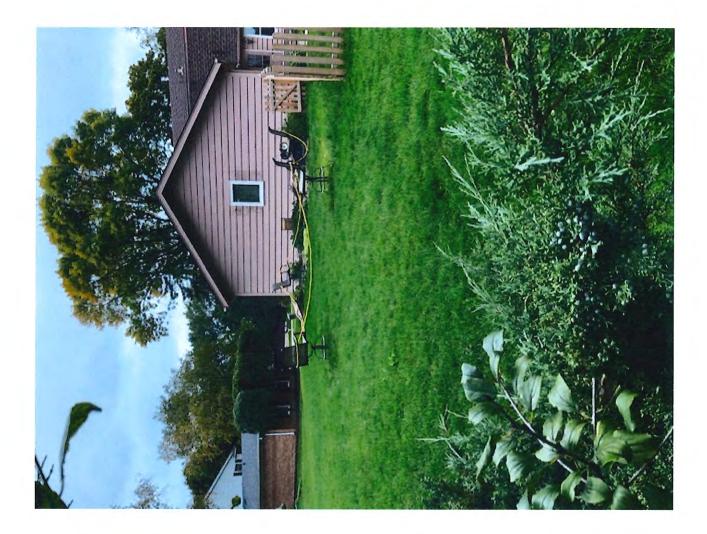


Sent from my iPhone

From: Thomas Houck Sent: Monday, October 4, 2021 11:19 AM To: houcks@sbcglobal.net Subject:







Sent from my iPhone

9658ft

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1-262-346-4577		RM PI	ERMI	ТΑ	PPLI	CATI	ON	PERMIT	NO.					
SAFEbuilt, Inc.	hart Inspections need t	fordinspecti o be called I	ons@saf n by 4 pn	ebuilt.c n for no	om ext busin	ess dav ir	nspections	TAXKE	(#					
ISSUING MUNICIPALITY	TOWN · X VILLAGE		PRO.	JECTI Building /	_OCATIC Address)	о ис	9433		Fai	/ W	٠y			
	COUNTY: Milw				ESCRIPT		COMMERC					E & TV	O FA	MILY
Dumer's Name Thomas + Kris	stine Houck	Malling Addr GY3	3 /V	1411	`WeyD	r. Bry	side, w.	Telephon	7	414-	43	07	766	56
Construction Contractor (DC Lic No.)	crete Construction	Melling Add	ress - Include 51 S.	ο City & Z Λ.υ.h.	Sun Rel	án Čr	ee/(47)	Telephon	e - Inci	ude Area 414- .	39	^ส 7-วั	289	58
Dwelling Contractor Qualifier (DCQ Ltc Country Duildes) Plumbing Contractor (Ltc No.)	: No.) 7	Melling Add Dwelling Contrac CEO, COB, or en Malling Add	tor Qualifiersh ployee of Dwe	hali be an o elling Contr	wner, ^{actor} W36	,28 Ct	RdFP	Telephon	o - Incl	1ude Area 920	a co -36	61- J	189	0
		-		·	-									
Electrical Contractor (Lic No.)		Malilng Addr	ess - Include	City & Zi	ρ			Telephon	e - Incl	ade Area	Cot	le		
HVAC Contractor (Llc No.)		Mailing Add	ess - Include	City & Z	ip			Telephon	e - Incl	ude Area	a Co	de		
PROJECTINF	ORMATION	Subdivision	Name					Lot No.		E	3loci	k No	•	
Zoning District	Lot Area	N.S.E. Setbacks	N, F	ront	Ft.	Rear	Ft	Left		Ft.	Righ	t		Ft.
1a.PROJECT	3.TYPE	6.STORIES	S 9	9. HVA	CEQUIPI	MENT		12.ENER	GYS		E	géronry (nonite		
Addition Addition	Raze Single Family Move Two Family	1-Story 2-Story		Forc	ed Air Fu iant Basel	irnace board or	Panel	Fuel	Nat. Gas	LP. O)	Elec. *	Sotid	Solar
□Other	D Multi	Other		Heei Boile	t Pump er			Space Htg Water Htg			긔			
1b. GARAGE	4.CONST.TYPE	7.FOUND		Cent Othe	iral Air C 9r	onditionin	g _	* Dwellin		Vill have	 3 k⊮	lowali	orm	l
Attached Detac	I Mrd. UDC	Concrete	e 11	0.PLUI	MBING		1	installed ele capacity.	ictric sp	ace hea	alar e	aquipr	nent	
2. AREA	5.ELECTRICAL		Wood S	ewer Munici	oal									
BasementS	Entrance Panel	Other		Septic	No			13. HEAT	LOS	S (Ca	cul	ated	l)	
Living AreaS	Sq. Ft. Service:NewRewire		1	1.WAT	ER			Total					BTU	//HR
GarageS OlherS	Underground	Perman	^{ent} C		ipal Utilit		a	14.ESTIM	ATE	cos.	Г			200420200
TOTAL	Sq. FtOverhead Power Company:		^L	_ Privat	e On-Site	Weli		\$5,60	0.0)()				
I understand that I: am subject t	o all applicabla codes, laws, sta	lutes and ordin	ances, incl	uding the	se describe	ed on the N	otice to Pern	nit Applicant	s form:	: am sut	ject	to an	y Y	
conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and cartify that all the above information is accurate. If one acre or more of soil will be disturbed, I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and the owner shall sign the statement on the Notice to Permit Applicants form. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done.														
APPLICANT (PRINT): Thumas Houck 10-4-21														
SAFEbuilt, Inc.														
INSPECTIONSNEEDED Building D Footing Foundation Rough D Insulation Bsmt. Fl. Final														
Electric Rough Service Final Plumbing Rough Underfloor Final HVAC Rough Final														
HEES: PERMIT(S)ISSUED SEALNO, Municipality No														
Building Fee 125.57785	Bldg. # At top of form	of form REC		CEIPT PERMIT EXPIRATION: PE		PERI	PERMITISSUED BY MUNICIPAL AGENT:							
Wi Seal	Zoning #		3155		Permite: two year		Name							
Plumbing Fee	Elec. # Pimb. #		unt <u>\$ 129</u> 10 14 / 2		date iss unless									
Adm, Fee			Thomas the	sik	municip									
Other		Rec	amona	lin	moreres		Certificat	tion No				******	******	

Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

18 × 14 concrete slab 8 × 12 Garden Sheel	\$ 2,200,00 Cost \$ 3,200,00
8×12 Garden Sheel	\$ 3,200.00
	······································
	Total Cost 5,600.00 Date 10-4-21
Signature	Date 10-4-21

Requested Changes at time of work

,

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

ltem	Cost
	Total Cost
Signature	Date



Application for Impervious Surface Permit

Owner's Name: <u>Thomas and Kristine</u> Hauch Street Address: <u>9433</u> N Fairbuy Dr Telephone Number: <u>914-430-7666</u>	
I hereby apply for a permit to install impervious surface* Amount of square footage to be added 252 sq ft $18X14$ Type of impervious surface (ex. driveway, sidewalk, etc.) <u>Concrete</u> slats.	
* Anything over S0 sq. ft. requires a permit and detailed plans with measurement Estimated Start Date: $11-15-21$ Estimated Completion Date: $11-30-21$	
I understand that approval from the Village of Bayside is required prior to starting the project.	
Owner Signature Date	-
Owner Signature	



10/05/2021

Attention: Village of Bayside, WI Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
Andy Frank	New 8' X 10' 80 sq. Ft. storage shed
PROJECT ADDRESS: 828 E Ellsworth Ln.	

I have reviewed the proposed new shed for compliance with the Village's ordinances and have determined the following for consideration

Sec. 125-90. - "C" residence district regulations.

(4) A side yard of not less than ten feet shall be provided for on each side of every building.

(5) A rear yard of not less than 20 feet shall be provided for every building, except one of not less than ten feet shall be provided for a building used for or classified as an accessory use.

- 1. Confirms with required set backs
- 2. Confirms with the Impervious requirements
- 3. Conforms with size limitations

104-2(a)(2) Architectural Review Committee: Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix SAFEbuilt Wisconsin Operations Manager

	Project Pro	oposal	
Date Fa	11 Sprits	2021-22	
Property Addres	828 2	E. Ellswith	Ln
Zoning	Residential		

- □ Accessory Structures/Generators
- □ Additions/Remodel
- Bluff Management
- Commercial Signage
- Decks/Patios
- D Fence
- □ Fire Pits
- Landscaping requiring Impervious Surface/Fill/Excavation Permit

- New Construction
- Play Structures
- Recreational Facilities/Courts
- C Roofs
- □ Solar Panels/Skylights
- □ Swimming Pools
- Windows/Doors-change exceeds 25% of opening
- Q Other

Proposed project details (type of work, size, materials, etc.):

pre-fab woold shee, along with floor. (x10

Yes	No	
a	D	Color photographs showing project location, elevations and surrounding views
a	D	Two (2) complete sets of building plans (including elevations and grading)
	a	Survey
D	D	Samples or brochures showing materials, colors and designs
C	a	Application Fee
u	a	Parcel Number
	D	ARC Agenda Date:
	a	Building Permit
a	a	Fill Permit
a	D	Impervious Surface Permit
		Plan Commission/Conditional Use Permit
0	D	Tax Key Number
C	a	Right-of-Way/Excavation Permit
		Variance Required

4

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ISSUING						EEIISI	ror	14							
MUNICIPALITY	Y OF_	Bayside									-	_			
	COUN	ITY: Milmed		-1	JECT DES	GRIPTI		COMMERC	Telephone	+ lock			& TWC	FAM	LY
Owner's Name Andy	Frank	· · · · ·	828	ddress · Inclue	smorth	La			14/11	128	5	13.			_
Construction Contractor (DCLic	No.)	is Ron	Mailing	istiss	do Cliy & Zip				Telephone 414						
Dwelling Contractor Qualifier (D			Dwelling Con	tractor Qualifier	shall be an owne welling Contracto	r, or	and a second		Telephone	- Incli	Ide Ar	on Coo	10		
Plumbing Contractor (Lic No.)	-	Rentes - Area - Anti-Area - Area -	Mailing /	Address - Inclu	de City & Zip		an anna fair an tar	attraction and all a	Telephone	- Incl	ude Ar	ea Co	de		
Electrical Contractor (Lic No.)			Mailing A	ddress - Inclu	de Cily & Zip				Telephone	- Inch	ida An	ea Cor	le		
		and the second	Matthew 1	Addance Inch	ida City & Zia			an a	Telephon	e - Incl	ude A	rea Co	de		
HVAC Contractor (Lic No.)			Mailing /	Address - Inclu	ida City a Zip										_
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Other – Total –	25.00	Rec			minde more restrictive. Certing				Dink - Clerk/Assess						

White - Municipal Files

Scope of Work

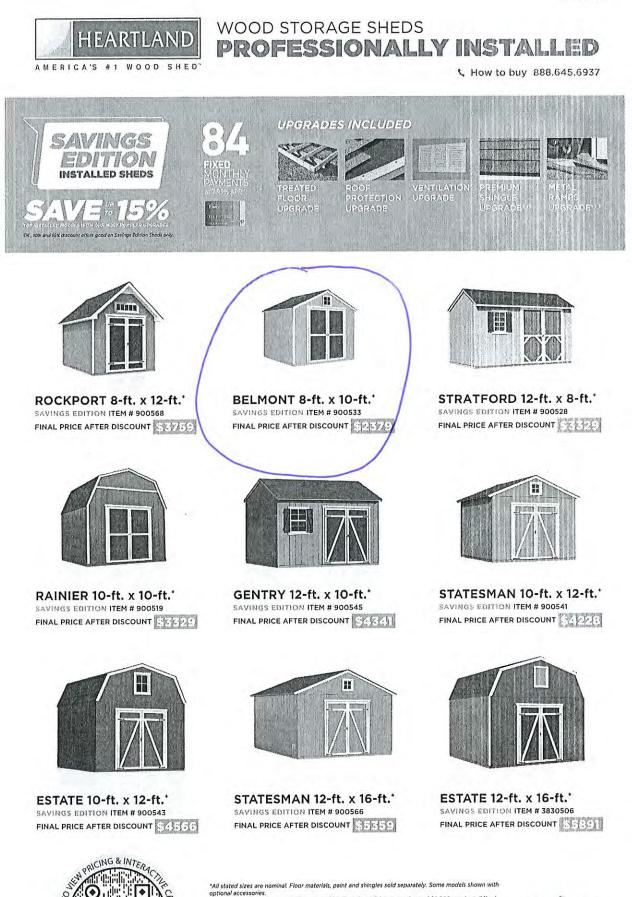
Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

. Replace removed shed on	~ \$2,500-
same foutprint - Pre-fab shed from	
	\$7 500
Signature My M	Total Cost Date8 18 21

Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

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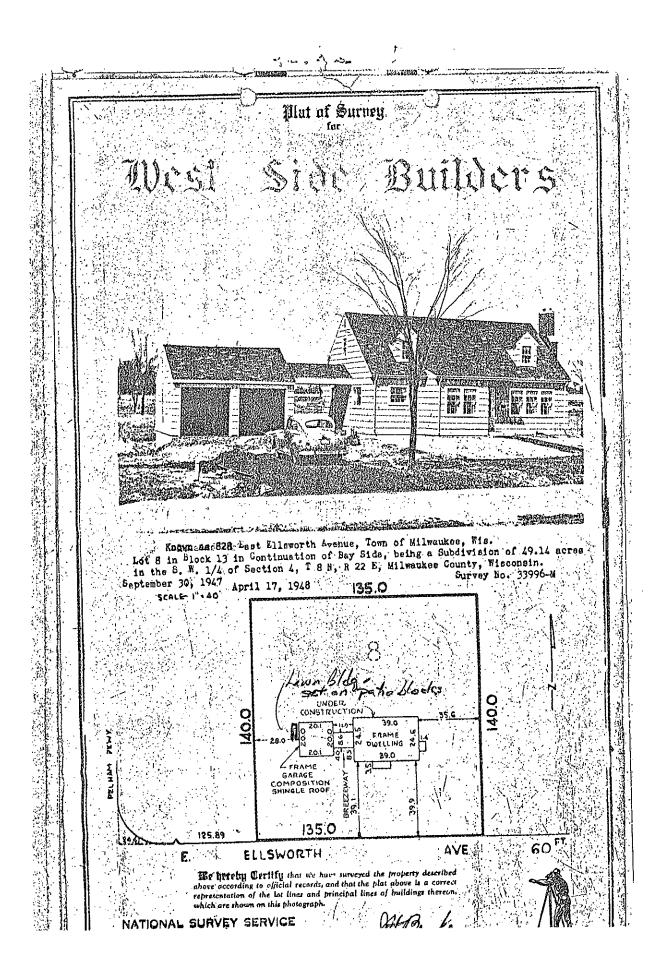
*All stated sizes are nominal. Floor materials, paint and shingles sold separately. Some models shown with

2 SCAN -

CAN: OPEN CAMERP

"All stated sizes are nominal. Floor materials, paint and single's sold separately, some modes shown wind optional accessories. "'84 fixed monthly payments with reduced APR financing, Minimum purchase of \$2,000 required. Offer is subject to credit approval. Each fixed monthly payment will be approximately. ISSBNS of the initial promo purchase amount, and will not be adjusted for merchandize returns which may result in paying the promo purchase in less than 84 months. Regular account lerms apply to non-promotional purchases. For new accounts: Standard APR is 26.99%; minimum interest charge is \$2. Existing cardholides should see their credit card agreement for their applicable terms. "Wavilable on Statesman. Estate, and Gentry Savings Edition sheds only. Pricing not applicable in Florida or non-serviced Heartland installation locations.

DOMES





Application for Impervious Surface Permit

Owner's Name: <u>Andy</u> e, Britt Frank Street Address: <u>828</u> F Ellsworth Ln Telephone Number: <u>414</u> 688 9731
I hereby apply for a permit to install impervious surface* Amount of square footage to be added
* Anything over 50 sq. ft. requires a permit and detailed plans with measurement Estimated Start Date:
I understand that approval from the Village of Bayside is required prior to starting the project. Owner Signature
 Impervious Surface Calculation Completed Payment of \$100 Permission granted to install impervious surface at the above address
Village Manager or Designee Date
 Permission not granted. Reason
Village Manager or Designee Date



10/07/2021

Attention: Village of Bayside, WI Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
Al Brotton	New 155 feet of 4'high cedar dog eared fence
PROJECT ADDRESS:	
600 W Laramie Ln	

I have reviewed the proposed new fence for compliance with the Village's ordinances and have determined the following for consideration

- 1. Current fence ordinance 104-125 (C) does not allow fences to exceed 50% of the perimeter of the property. The perimeter of the property is approximately 998 feet. The applicant states the proposed fence is 155 feet. This is 15.53% of the perimeter of the property.
- 2. The four-foot-high cedar Dog Eared fence is listed as having an 8" spacing between boards, which complies with the ordinance. They also did not specify if they will be staining, painting, or leaving it a natural color
- 3. A current survey was provided
- 4. The board always considers matching fences with neighboring fences. It does show the neighboring fence in the photos if there are any.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix SAFEbuilt Wisconsin Operations Manager

Project Proposal						
Dat	e 10/4/21		-			
	perty Address 600 12	le	wanie Love			
Zon	ing - Residential					
Accessory Structur	es/Generators		New Construction			
Additions/Remode			Play Structures			
Bluff Managemen			Recreational Facilities/Courts			
Commercial Signa			Roofs			
Decks/Patios			Solar Panels/Skylights			
Se Fence		۵	Swimming Pools			
			Windows/Doors-change exceeds 25% of			
Fire Pits			opening			
Landscaping requ Surface/Fill/Excav	iring Impervious ation Permit	۵	Other			

Proposed project details (type of work, size, materials, etc.):

I high coder fence to Surrow) 48' x 27' gorden of West side of horse and some meterial fence to extend 32' of East and new addition. Ô * * * * * For Office Use Only * * * * * * * * * *

Yes	No	
ū	a	Color photographs showing project location, elevations and surrounding views
		Two (2) complete sets of building plans (including elevations and grading)
0		Survey
		Samples or brochures showing materials, colors and designs
D		Application Fee
Q		Parcel Number
		ARC Agenda Date:
		Building Permit
		Fill Permit
		Impervious Surface Permit
<u> </u>		Plan Commission/Conditional Use Permit
		Tax Key Number
		Right-of-Way/Excavation Permit
ū		Variance Required

Scope of Work

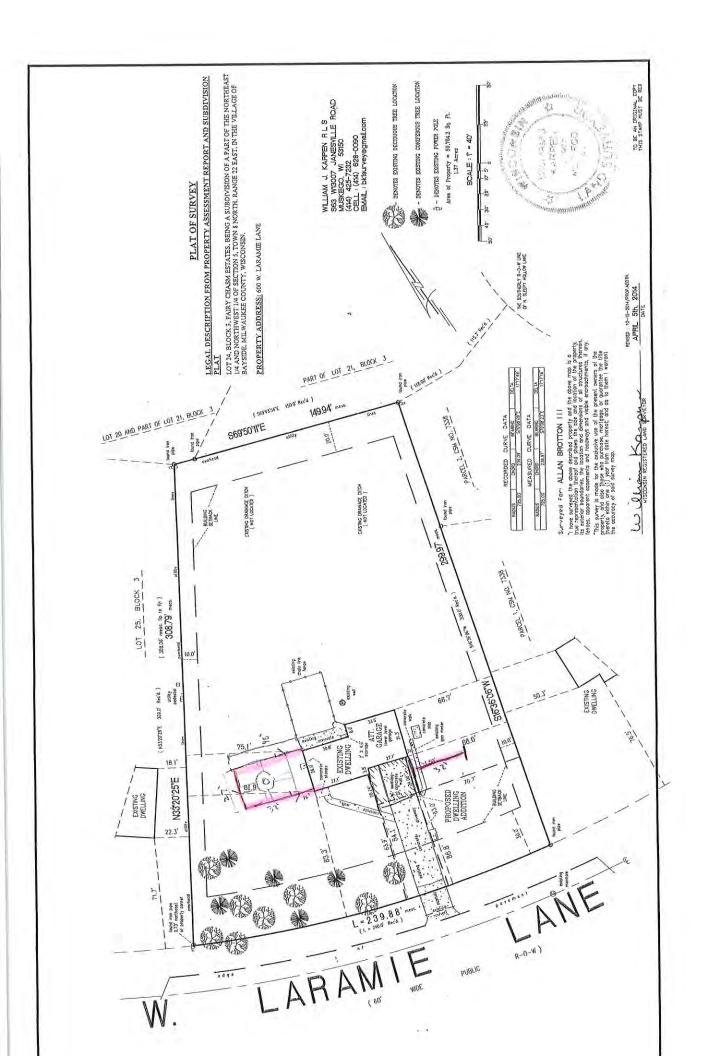
Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

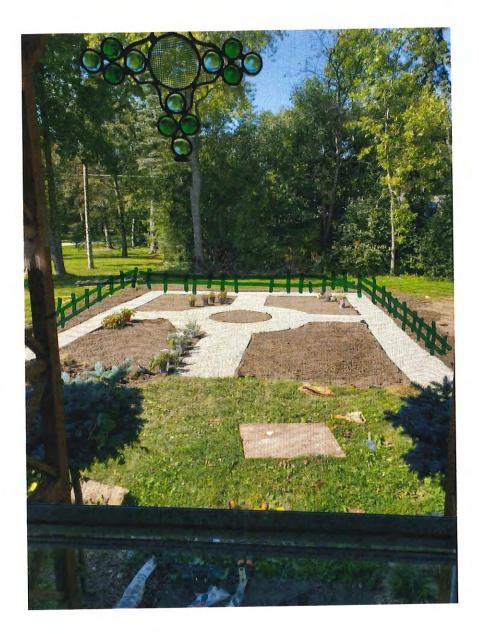
Ceder Posts - 20 Ceder Pickets - 120 Ceder Stringers - 40	1600 1360 1940
<u>Ledar Stringers 70</u>	
Signature	Total Cost Date0/3/2/

Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost
	Total Cost
Signature	Date









= Fence Lines



10/07/2021

Attention: Village of Bayside, WI Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
Matthew Burerossit	New 12' X 14' 168 sq. Ft. storage shed
PROJECT ADDRESS: 416 E Ravine Bay	

I have reviewed the proposed new shed and fireplace for compliance with the Village's ordinances and have determined the following for consideration

Sec. 125-90. - "B" residence district regulations.

(4) A side yard of not less than ten feet shall be provided for on each side of every building.

(5) A rear yard of not less than 20 feet shall be provided for every building, except one of not less than ten feet shall be provided for a building used for or classified as an accessory use.

1. The shed does not meet the rear yard setback requirements

2. Confirms with the Impervious requirements

3. Need additional information as to the construction of the deck that the fireplace is going next to. I emailed the applicant on 10/06/2021 at 20:03. I have not gotten the needed information to review the fireplace.

104-2(a)(2) Architectural Review Committee: Construction and renovation should be made so that exterior architectural appearance shall be substantially consistent with structures already constructed in the immediate neighborhood, or with the character of the applicable district.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix SAFEbuilt Wisconsin Operations Manager

Project Proposal

		Date							
		Property Address							
		Zoning							
Ø	Accessory \$	Structures/Generators	New Construction						
	Additions/R		Play Structures						
	Bluff Manag		-	Recreational Facilities/Courts					
	Commercia	-							
	Decks/Patio		Solar Panels/Skylights						
	Fence		 Swimming Pools 						
	renee		 Windows/Doors-change exceeds 25% of 						
taj	Fire Pits		opening						
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		Excavation Permit	Other						
Propos	ed project c	letails (type of work, size, mate	rials etc.)						
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Yes	No								
		Color photographs showing pro	ect location, elevations and surrounding views						
	a	Two (2) complete sets of building	g plans (including elevations and grading)						
a	0	Survey							
D	0	Samples or brochures showing materials, colors and designs							
	G	Application Fee							
		Parcel Number							
		ARC Agenda Date:	ARC Agenda Date:						
0		Building Permit							
0		Fill Permit							
		Impervious Surface Permit							
		Plan Commission/Conditional Us	e Permit						
D		Tax Key Number							

Right-of-Way/Excavation Permit

Variance Required

1-262-346-4577							200000000000000000000000000000000000000								
SAFEbuilt, Inc.	WI UNIFORIXI hartfordinsp			ections@sa	ERMIT APPLICATION			TAXKEY#017-0182-000							
				in by 4 pm for next business day inspections PROJECTLOCATION											
ISSUING				(Building Address) 416 F			ERAVINE BAYE								
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				ing Contractor Quelifier shall be an owner, Telephone - Include Area Code COB, or employee of Dwelling Contractor											
Plumbing Contractor (Lic No.)			Malling	Address - Inclu	ide City & Zip				Telepho	ne - Inc	lude A	rea Co	de		
Electrical Contractor (Lic No.)			Melling	Address Inclu	de City & Zip				Telepho	ne - Incl	uda Ar	ea Co	de		
HVAC Contractor (Lic No.)			Maliing	Address - Inclu	ide City & Zip			10000mct	Telepho	ne - Inc	A ebul	rea Co	de		
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I understand that i: am subject to all applicable codes, laws, statutes end ordinances, including those described on the Notice to Permit Applicants form; am subject to any conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and certify that ell the above information is accurate. If one acre or more of soli will be disturbed, I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and the owner shall sign the atatement on the Notice to Permit Applicants form. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done.															
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APPLICANT (PRINT):	IVIA	ATTHEN V (>U15	<u>rossr</u>			$) \leftarrow$								-
SAFEbuilt, Inc.															
INSPECTIONS NEEDE									Fin		F I	nal			
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Adm, Fee Other		HVAC #		From		ordinan	ice is strictive.	Certifica	ation No	+				. <u></u>	
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RELEASE AND INDEMNIFICATION

MUNICIPALITY:	
ADDRESS:	
INSPECTOR:	Date

I (we) represent that, as owner(s) of real estate located at:

I (we) hereby release the Municipality and its agents and employees including SAFBbuilt Wisconsin, LLC. from any and all claims, causes of action, or liability arising out of the lack of inspection and approval for:

and I (we) further agree to indemnify and hold the Municipality and its agents and employees including SAFEbuilt harmless and defend them from any claim, causes of actions, or liability regardless of fault or negligence on the part of the Municipality, its agents or employees including SAFEbuilt.

In no respect or manner shall this release and indemnification agreement operate to bar any claims against a contractor or anyone who performs any construction work on the above-mentioned Real Estate.

Furthermore, expressly agree that the consideration for this release and promise to indemnify and hold harmless is for the lack of inspection and approval which was granted without a personal inspection by SAFEbuilt and their agent(s) for the Municipality but was accepted and approved on the basis of the attached certification from the contractor or other party who performed the work.

The undersigned acknowledges that all work installed conforms to applicable adopted local Ordinances.

CONTRACTOR/CARPENTRY-MASONRY	DATE
HVAC	DATE
ELECTRICIAN	DATE
PLUMBER	DATE
OWNER Acknowledged & Accepted	DATE



Application for Impervious Surface Permit

Owner's Name: MAINATION AND AND AND AND AND AND AND AND AND AN	OLIZ DUIZROSSIE
Owner's Name: MATTHEN ENT Street Address: 416 FZ (PAVINE BA	YTE ROAM
Telephone Number: 414-238-5940	
I hereby apply for a permit to install impervious surface*	
Amount of square footage to be added $1405@$	
Type of impervious surface (ex. driveway, sidewalk, etc.)	GRIAUREL BASE
For SHEN	
* Anything over 50 sq. ft. requires a permit and detailed p	
Estimated Start Date: NOV 1 2021	
Estimated Completion Date: Drec 1 2021	
project.	
Owner Signature	Date 9-24-21
	Date
Impervious Surface Calculation Completed	Date <u>9-24-21</u>
 Impervious Surface Calculation Completed Payment of \$100 	
Impervious Surface Calculation Completed	ace at the above address
 Impervious Surface Calculation Completed Payment of \$100 Permission granted to install impervious surf 	ace at the above address
 Impervious Surface Calculation Completed Payment of \$100 Permission granted to install impervious surf Village Manager or Designee	ace at the above address
 Impervious Surface Calculation Completed Payment of \$100 Permission granted to install impervious surf Village Manager or Designee Permission not granted. 	ace at the above address

To Who it may concern,

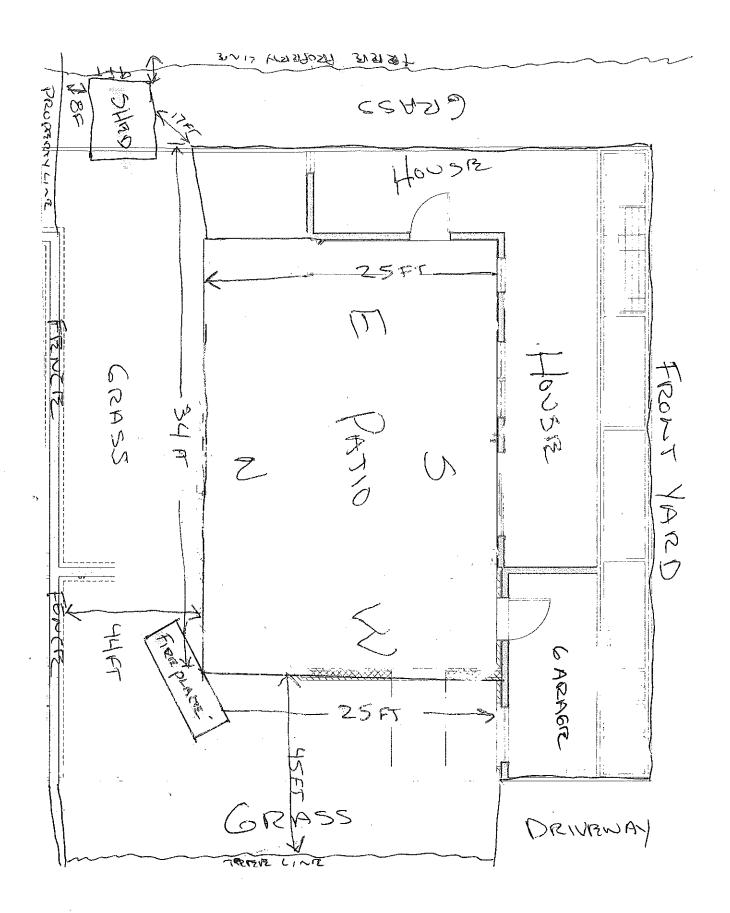
The requested "Do it Yourself" Storage Shed and Outdoor Fireplace & Pizza Oven Project for the property located at 416 E Ravine Baye Road (Tax Key 017-0182-000) and requested to start on November 1st 2021 and commence on December 1 2021, potential weather and supply chain delays permitting. Otherwise, if approved the project will be estimated to start on May 1st 2022 and commence on June 1st 2022.

- Storage Shed (wood)-Please see the attached packet for details of shed kit contents and building materials that will be purchased from Wayfair and directly shipped to the build location located above. The proposed Shed will be located 10ft from the North Boundary and 10ft from the East Boundary and 17ft from the Northeast corner of the house. The shed will be painted in the same color scheme to match the main structure/house, have an asphalt shingle roof, and the foundation will be crushed and compacted limestone gravel.
- 2. Outdoor Fireplace & Pizza Oven will be made of concrete block, mortar, and bricks (84 inches wide x 36 inches deep x 84 inches tall). The Outdoor Fireplace is proposed to have a 48 inch wide and 36 inch opening & a 48 inch concrete mantle to burn wood only and an enclosed wood fired pizza oven above the main Fireplace, but underneath the built-in brick enclosed chimney. The proposed location of the Outdoor Fireplace is 25ft from the Main structure/house at the Northwest edge of the patio and 34 ft from the adjacent protruding portion of the house on the Northeast corner/side of the patio, 40ft from the North boundary, and 45Ft from the Western Boundary. Please see the attached descriptions and picture for more information of the materials used and the design concept. The façade of the Fireplace and Pizza Oven will be finished in red brick that matches the garage of the main structure/house and sit upon a 7ft x 3ft concrete foundation.

Thank you for your time and consideration!

Matthew V Buerosse

Plat No.	W. G. NIENOW ENGINEERING ASSOC. CONSULTING ENGINEERS - SURVEYORS 1743 W GREEN TREE ROAD MILWAUKEE WID TEL 351-1620	WALLACE G. NIENQW, P.E Asbociates KENNETH D. WOOTGRN, P DAVID E. ODLACK, JR., P.E
n n Tarahtan Kard Pilank	PLAT OF SURVEY	
PREPARED FOR Fred DESCRIPTION OF PROPE the Northwest 1/4 o of Bayside, Milwauk	<u>Miller</u> RTY <u>lot 7 of RAVINE MEADOWS, a</u> f Section 4, Town 8 North, Range ee County, Wisconsin.	subdivision of part 22 East, in the Vill
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	DI DOALE TINCH = 30 FEET	I ANGLE 79-18-29 5/2 ANGLE 39-38-44:
STATE OF WISCONSIN) MILWAØKEE COUNTY)		
shows the size and location of th	surveyed the above described property and the above m te property, its exterior boundaries, the location of all ity fences, apparent easyments, roadway and visible energy	visible structures and dimensions of
	present owners of the property, and also those who put	12



Scope of Work

Only items listed are part of this permit. If work is done on items not listed on this permit they will be considered to have been completed without a permit and are subject to double fees.

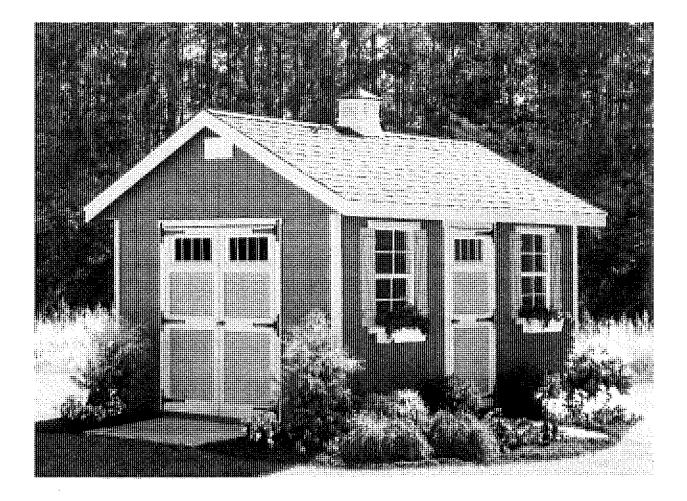
DETROLIEN TOOL SHED	# 3500 00
DRETACHEN TOOL SHED	\$5500 00
A	Total Cost_9.000 00
Signature	Date

Requested Changes at time of work

Must be submitted to the Village prior to or same day work is completed. Failure to return the same day will result in double permit fees.

Item	Cost
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	Total Cost
Signature	Date

Riverside 10 ft. W x 14 ft. D Storage Shed



See More by <u>EZ-Fit Sheds</u> Rated 4.5 out of 5 stars. 4.5<u>79 Reviews</u> \$4,659.99\$5,721.0019% Off

You're pre-qualified! Get the Wayfair Credit Card!

Shopping for a business? Unlock insider pricing

Only 9 Left in Stock. Buy Soon! Free Shipping Get it in 5-6 weeks Ship To: 53217 - Milwaukee

Select QuantityMinus¹ Plus

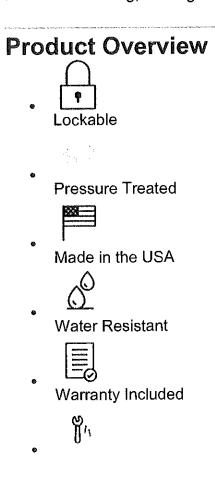
Save this item to your list

Add to Cart

What We Offer

Expert Assembly for \$539.99

Expert Assembly for \$539.99How It Works **One-Stop Shopping** Purchase shelving, flooring and more- all in one place.



Assembly Required

Description

Designed to offer plenty of light and easy access, the product features a single door flanked by 2 windows, in addition to its convenient double doors.

What's Included?

- o Door Lock
- o 2 Window(s)
- o Shed
- o Double Doors
- o Single Door
- o Shutters
- o Floor
- Foundation

Features

- Shed does not come painted, it will be primed to a light brown color.
- Height from the floor to the bottom of the roof: 6'5"

Product Details

- Storage Capacity: 980 cubic feet
- Wind Rating: 90
- Additional Tools Required (Not Included): Power Drill; Hammer; Saw

See Less

Weights & Dimensions



Overall 10' W x 14' D x 10' 3" H Interior 9' 5" W x 13' 5" D x 9' 10" H Door 5' W x 6' H Window 2' W x 3' H Coverage Area 140 square feet Wall Thickness 4" **Overall Product Weight** 2075 lb. **Recommended Foundation Width** 14' **Recommended Foundation Depth** 10'

• Plate height: 123"

- Eve overhangs: 12"
- Roof sheathing thickness: 0.44"
- Recommended floor thickness: 0.75" of plywood with 24" on center joists or 4" concrete pad
- The largest piece will be a wall section that measures 4' W x 6'6" H and weighs 105 pounds.

Specifications Additional Documents

- Installation & Assembly (.pdf)
- Specification Sheet (.pdf)

Features

Shed Type Storage Shed Primary Material Solid + Manufactured Wood Wood Treatment Pressure Treated Color Tan Primer Cladding Style Overlap Storage Capacity 980 cubic feet Foundation Required Yes Foundation Included No **Recommended Foundation Size** 10' W x 14' D Floor Included No Windows Included Yes Number of Windows 2 **Functional Windows** Yes Window Lock Included Yes Built-In Shelving Included No Door Lock Included Yes Shingles Included No

Shutters Included Yes Flower Box Included No Number of Doors 2 Door Style Single Door; Double Door Year-Round Use Yes Wind Rating 90 Weather Resistant Yes Water Resistant Yes Rot Resistant Yes **Mildew Resistant** Yes Compatible Floor Kit Part Number 10x14EZFL Country of Origin Made in USA

Assembly

Level of Assembly Full Assembly Needed Adult Assembly Required Yes Suggested Number of People for Assembly/Install 2 Additional Tools Required (Not Included) Power Drill; Hammer; Saw

Warranty

Product Warranty Yes

Part Number

10x14EZKITR

EZ-fn warmen with

About The Brand

It all started in a small shop south of Alpine-Alpa Cheese House where our first storage barns were built one winter many years ago. By the end of the year, our founder - Mose Miller - realized the need for storage buildings and in 1981 Alpine Structures was born. Since we were located in the Alpine area, we chose the name Alpine Structures, and 3 years later we built a new shop several miles down the road at our present location in Winesburg, Ohio on State Route 62. Alpine Structures is innovative and always looking for ways to better meet customers' needs. That's why Alpine Structures was the first company in Holmes County to construct buildings on the customer's site-eliminating access problems and size limitations. Not all buildings are created equal. At Alpine Structures, we have learned what products assure structural integrity and increase our customers' property value. For many years plywood was considered the best option for building storage units because it did a good job and looked nice. At the time, OSB (Orient Stand Board) was in development but was thought to be an inferior product. Over the years, plywood quality deteriorated drastically and has given us serious problems due to warping between the rafters. But in recent years, OSB has vastly improved in performance. That's why we have made it our standard roof sheathing. Some may not care for the look of OSB, but as a sheathing product it outperforms plywood while giving our customers a building with superior roof sheathing that's designed to stay true. As we continue to grow, Alpine Structures remains dedicated to providing high-quality products with excellent customer service. Our success is credited first and foremost to God who has blessed us abundantly-with wonderful employees and loyal customers.

More About This Product

When you buy a EZ-Fit Sheds Riverside 10 ft. W x 14 ft. D Storage Shed online from Wayfair, we make it as easy as possible for you to find out when your product will be delivered. Read customer reviews and common Questions and Answers for Alpine Structures Part #: 10x14EZKITR on this page. If you have any questions about your purchase or any other product for sale, our customer service representatives are available to help. Whether you just want to buy a EZ-Fit Sheds Riverside 10 ft. W x 14 ft. D Storage Shed or shop for your entire home, Wayfair has a zillion things home.





Installation Instructions & Materials List for the –

Cortile Barile Oven with Ceramic Fiber Blanket Insulation

If you can make brownies, you can make the Cortile Barile oven! Simply mix 3 ingredients, pour them into the Cortile Barile foam mold and let bake.. err.. dry for 7 days!

2 Hours.. 3 Ingredients.. It really is the world's least expensive & easiest to build wood-fired oven!

Materials Shopping List Cortile Barile Oven Kit (2 Boxes) Full Size Firebrick (Cooking Surfac

1 60 80

9

1

3 2 1

1

1 1

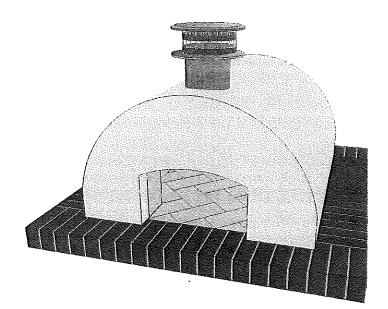
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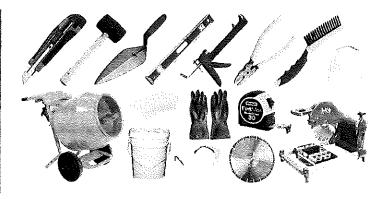
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		Full Size Firebrick (Cooking Surface)
		Standard Size Brick (Frame)
		50lb Bag of Castable Refractory
		(See Page 5 for Recommended Brands)
		15lb Tub of Hi-Temp Mortar (Wet)
		(See Page 5 for Recommended Brands)
		80lb Bag of Stucco
		60lb Bag All Purpose Sand
		Roll of 2' x 25' Chicken Wire
		Roll of Rebar Wire
		50sf Box of Ceramic Fiber Blanket
		2" X 4" X 8' Stud
		2lb Bag All Purpose Flour
		(SUGGESTED) DuraTech 6" Exhaust Kit
		(SUGGESTED) DuraTech 6" x 9" Pipe

Tools Needed

Miter Saw (Try to	borrow or rent before buying)
Masonry Trowel	3.5cf Cement Mixer
Utility Knife	Masonry Blade (Diamond)
Tape Measure	Rubber Mallet
4' Level	2 Gallon Bucket
Wire Cutter	Metal Wire Brush
Caulking Gun	Construction Sponge
Rubber Gloves	Glasses & Respirator







Please remember to <u>BUY AMERICAN</u> and purchase your materials from your locally owned Masonry, Landscape &/or Building Supply store.

What you need to know <u>BEFORE</u> you build your Cortile Barile Oven

READ ALL INSTRUCTIONS BEFORE YOU BUILD – We worked very hard to bring you the most through, yet simplistic set of DIY wood-fired oven and base instructions on Planet Earth! We HIGHLY encourage you to read both sets of directions before you tear open your first bag of cement.. or at least look at the pictures (*guys*)..

PLACEMENT OF OVEN – First and foremost, ALL BrickWood Ovens are for <u>OUTDOOR & NON-COMMERCIAL USE ONLY</u>! Secondly, the placement of your oven really depends on your local building codes. Many codes & HOA's state that all "solidfuel burning devices" be placed within "X" number of feet from any structure. Before you build your oven, check with your local municipalities and/or HOA's to verify you build to the standards of your code.

In addition, you must remember that no wood burning oven manufacturer can guarantee 100% smoke capture. For this reason, we do not recommend placing your BrickWood Oven within 5 feet of any ceiling or covered structure. We also recommend leaving a distance of 3 feet between the oven and any structure like walls, fences, trees, etc..

Also, make sure that the front / opening of your oven faces the direction of the oncoming wind. If the wind hits the rear of the oven, it can create a small vacuum which will pull the smoke out the front of the oven.

TYPES OF FIREBRICK - There are several types of firebrick on the market (Low duty, Medium Duty, High Duty, Red Clay Brick, & Insulating Firebrick). It is HIGHLY RECOMMENDED to use a Low or Medium duty firebrick which is comprised of 35% - 40% Alumina with 45% - 55% Silica and typically weigh 7lb – 8lb each. Low and Medium duty firebrick are the best type of firebrick to use on any brick oven.

FIREBRICK COLORS – Red or Tan.. That is the question! Most firebrick dealers stock one color of firebrick and it is usually tan. Sometimes a dealer will stock both red and tan which look great together! The color of the firebrick has <u>absolutely zero</u> effect on the performance of the oven.

FIREBRICK SIZES -- The Cortile Barile oven was designed to accommodate the two most common sizes of firebrick on the market -- 9" x 4.5" x 2.5" and 9" x 4.5" x 2.25".

In addition to those two common sizes, you can also use the following firebrick sizes -

8.5" x 4.5" x 2.5"	8.75" x 4.5" x 2.5"	9" x 3.5" x 2.5"	9" x 3" x 2.5"	12" x 4.5" x 3"	13.5" x 4.5" x 3"
8.5" x 4.5" x 2.25"	8.75" x 4.5" x 2.25"	9" x 3.5" x 2.25"	9" x 3" x 2.25"	12" x 4.5" x 2.5"	13.5" x 4.5" x 2.5"

STUCCO / MORTAR SHELL – The biggest misconception with the insulated oven occurs with the versatile stucco or mortar shell. This "shell" performs MANY duties and is required when insulating your oven with Ceramic Fiber Blanket.

- 1. The shell is 2 rock-hard ½" thick layers of STUCCO or MORTAR MIX. While stucco is preferred, it can be regional and hard to find in some areas. If a <u>dry</u> stucco mix is not available, a bag of standard Mortar Mix can be used.
- 2. Stucco is different from mortar mix as it contains synthetic fibers that increase its strength and durability.
- 3. The stucco is used in conjunction with the metal lathe (chicken wire) to create a reinforced shell around the oven (think of the metal lathe in stucco like rebar in cement). This shell keeps the ceramic fiber blanket locked in place around the oven and also allows the end user to mortar ANY TYPE of veneer to the oven.
- 4. The stucco or mortar shell can be painted, but it is preferred that you mortar a finish veneer to the shell.
- 5. Once you paint the stucco, you cannot apply a veneer using mortar (unless you strip the paint).
- 6. Only use dry stucco mix. Pre-mixed stucco is cost-prohibitive (you will need about 220ibs of wet / mixed stucco).

HAIRLINE CRACKING – When your oven is heating up, the heat causes the oven to expand or "stretch". Please remember, HAIRLINE CRACKING IS NORMAL and will happen but is unlikely to produce product / oven failure. To keep the hairline cracking to a minimum:

- 1. Make sure you use the EXACT WATER REQUIREMENTS stated in the manufacturers data sheet when mixing the castable refractory. Too much or too little water will produce a low-strength refractory blend.
- 2. Heat your oven SLOWLY! The slower you heat your oven, the less chance of hairline cracking.

HERRINGBONE PATTERN COOKING SURFACE – Aside from looking pretty cool, the Herringbone pattern actually serves a purpose. If you lay your cooking surface firebrick in a horizontal / vertical layout and just one firebrick rises 1/16 of an inch, it could stop your pizza peel instantly (and send a nice shock down your arm). By angling the brick at a 45° degree angle, your peel will simply glide over the elevated brick.

SAFTEY FIRST!! WEAR GLASSES, RESPIRATOR & GLOVES AT ALL TIMES!! Sunscreen is optional...

SOOT ON OVEN – Sometimes a bit of soot will land on the front of your oven, but don't fret! Simply get a little dab of dish washing detergent, a small brush and a bucket of water – follow that up with a little elbow grease and that soot comes right off! Good as new with a fresh, clean, lemony scent!

METRIC VS. STANDARD – The measurements in our directions are shown using the Standard measurement system. If you are outside of the US, you will need to convert the measurements to Metric. This can easily be done by visiting our conversion page at: www.BrickWoodOvens.com/Conversion

CURING THE OVEN AND FIRING THE OVEN - It is <u>VERY</u> important that you cure your oven correctly. It is equally important that you fire up the oven correctly to get the most out of your oven. <u>PLEASE BE SURE TO READ AND FOLLOW BOTH SETS</u> OF DIRECTIONS THAT ARE ON THE LAST 2 PAGES OF THESE INSTRUCTIONS:

HOW TO CURE YOUR OVEN & HOW TO FIRE YOUR OVEN FOR DAILY USE

PRACTICE MAKES PERFECT PIZZA – We know how excited you are to put your first pizza in your oven! We've been there! And we also burned the tar out of our first pizza (that took 30 minutes to build from scratch)! We HIGHLY recommend that you purchase 6 or 7 frozen pizzas from your grocers' freezer (Red Baron / Tombstone) and let them thaw out to room temperature. Practice cooking in your oven with these disposable pizzas and once you have become an Oven Master, go for the good stuff!

STRANGERS IN YOUR BACKYARD – Wood-fired ovens tend to attract lots of people. Some you may know and some you may not. These strangers mean no harm! They were just guided to your oven by the wonderful smell of burning wood and the aroma of fresh baked bread in the air. They usually appear during holidays, birthdays, graduations and most Sundays (especially during football season). Usually, you can give them a couple of slices of freshly baked pizza and they will scamper away, but remember, once you feed them food from a wood-fired oven, they come back over and over searching for more! You've been warned!

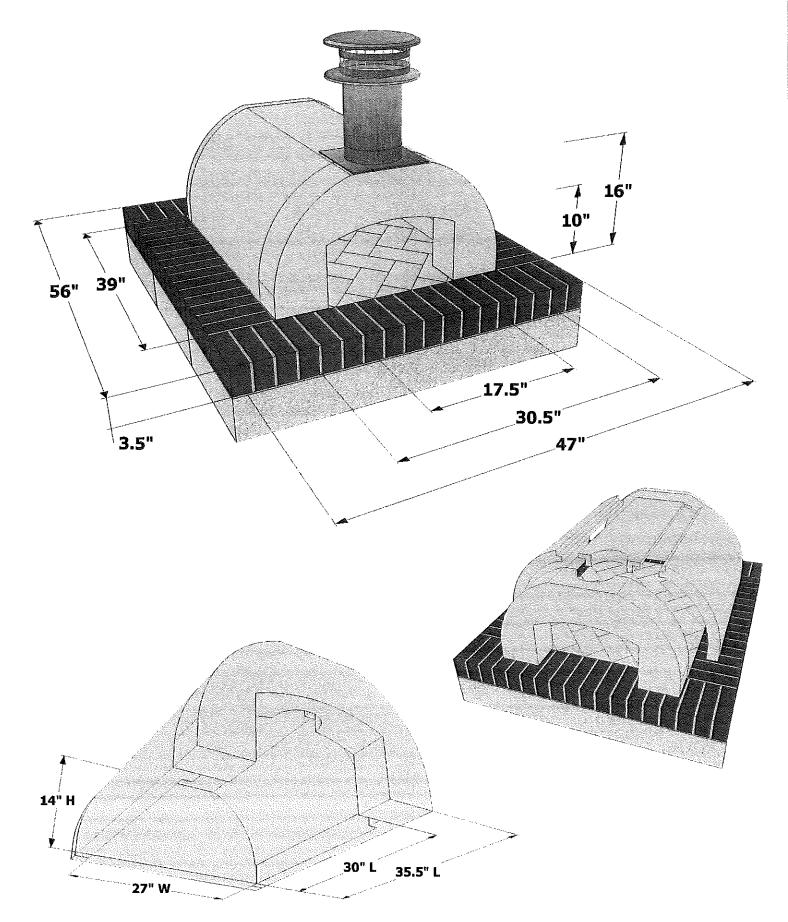
HAVE FUN! THAT'S AN ORDER! Anyone can *buy* a pre-built oven.. and anyone can *BUILD* an oven! We have taken all of the guess-work out of building your wood-fired oven and base. All you have to do is follow our step-by-step instructions and you will be hosting your first pizza party in no time! Don't worry about mistakes – masonry is very forgiving. If you do make a mistake, simply wipe off any wet mortar and try again. If it takes 3 times to get it right, it takes 3 times.. no worries!! You just learned how to do it right for the next time!

One last note before you get started. If you have kids, be sure to let them help in the construction of the oven. Your new oven will last for many, many years and as the time passes quickly (as we all know it does), you and your kids will always remember the fun you had building the oven together as a family. There are no mistakes when building your oven and if an "uh-oh" does occur, just remember that it can easily be fixed with mortar!





- CORTILE BARILE OVEN MEASUREMENTS -



- CASTABLE REFRACTORY & HI-TEMP MORTAR -

What do America's Top 10 Wood-Fired Oven manufacturers have in common? We all build our ovens with Castable Refractory from the various refractory manufacturers listed below. You will need this Manufacturer / Brand list as you call the Castable Refractory dealers in your area to check pricing & availability.

	CASTABLE REFRACTORY	HEAT RESISTANT MORTAR - WET	HEAT RESISTANT MORTAR - DRY	
ABLE REFRACTORY	ABLE CAST 3000	ABLE MORTAR 3000	-	
ALLIED MINERAL PRODUCTS	CW SUPER KASTITE 3000	BRIKSET	BRIKSET MORTAR DRY	
ALSEY	HI-CAST 60 3000	PILOT 3000-T AIR SET	PILOT 3000-DRY AIR-SET	
ANH / HARBISON-WALKER	KS4, KS4V PLUS OR MIZZOU CASTABLE	SAIRSET	MORTAR MIX 413	
BNZ	BNZ BLAZECRETE 3000	BNZ BLAKBOND		
CHRISTY	CHRISTYCAST 45 OR MORCOCAST 45	MORCOSET 50	MORCOSET 55 D	
HEATSTOP	HEATCAST 40	HEAT STOP II	HEAT STOP 50	
MISSOURI REFRACTORIES	MORCOCAST 45-0	MORCOSET 50	MORCOSET 55 D	
MORGAN THERMAL CERAMICS	KAOCRETE HS	K-BOND WET	K-BOND DRY	
MT. SAVAGE	HEATCRETE 26 ES	SUPER HI-MUL	WATERPROOF HI-TEMP	
NOCK & SON	NOXCRETE	-		
PILBRICO	PLICAST TUFF MIX	SUPER DEMON WET	SUPER DEMON DRY	
PRYOR GIGGEY	ECONOCAST	ECONOSET		
RENO REFRACTORIES	RENO CAST 25 CTG	-	RENO BOND 3000 DRY	
RESCO / NEW CASTLE	PACOCAST 24	TROWELEZE	-	
RIVERSIDE REFRACTORIES	ALAKAST 40-P-ES	ALASET 40-3000 SPECIAL		
SPAR REFRACTORIES				
THERMBOND	FORMULA 9 OR FORMULA 6BL	6P	-	
UNITED REFRACTORIES	UNI-CAST 2400	 Comparison of the second of the		
VESUVIUS	MOLDIT D OR MOLDIT HT	-		

- CASTABLE REFRACTORY MANUFACTURERS & DEALERS -

Arizona has 1 refractory dealer while Pennsylvania has 792.. Well.. not really *that* many, but there are quite a few. But no matter what state you live in, be sure to call your local dealer to verify they have the castable refractory "IN STOCK" **PRIOR** to arriving at their store. Sometimes castable refractory needs to be ordered and that might take a day or two.

The average cost of castable refractory is around \$35.00 per bag. If you are unable to find castable refractory in your area at a decent price, you can call the manufacturer (indicated below in **BOLD***) and they can either sell to you directly (and possibly arrange delivery) or they can direct you to one of their distributors.

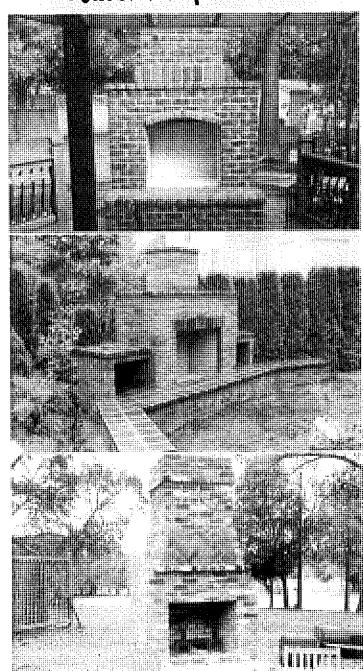
E.J. BARTELLS	601 WHITNEY ROAD	ANCHORAGE	AK	(907) 272-2467	EJBARTELLS.COM
PRYOR GIGGEY*	2700 ALEXANDRIA ROAD	ANNISTON	AL	(256) 237-3373	PRYORGIGGEY.COM
SPECIALTY FOUNDRY PRODUCTS	1130 RAIMUND MUSCODA ROAD	BESSEMER	AL	(205) 424-0307	SPECFOUNDRY.COM
ANH / HARBISON WALKER*	1201 BROCK INDUSTRIAL DRIVE	BIRMINGHAM	AL	(205) 788-1685	HWR.COM
PORTER WARNER INDUSTRIES	270 CENTER ST. NORTH	BIRMINGHAM	AL	(205) 251-8223	PORTERWARNER.COM
EMPIRE REFRACTORY	1273 24TH AVENUE	HUEYTOWN	AL	(205) 426-4000	EMPIRE-REFRACTORY.COM
SPAR REFRACTORIES*	917 FRANCIS STREET WEST	JACKSONVILLE	AL	(256) 435-9342	SPARREF.COM
DISTRIBUTION INTERNATIONAL	1250 ARMOUR AVENUE	MOBILE	AL	(251) 471-4655	DISTRIBUTIONINTL.COM
INDUSTRY SERVICES	5550 TODD ACRES DRIVE	MOBILE	AL	(251) 443-6900	INDUSTRYSCI.COM
RENO REFRACTORIES*	601 RENO DRIVE	MORRIS	AL	(205) 647-0240	RENOREFRACTORIES.COM
LYNN WHITSETT CORPORATION	2050 FORD ROAD	MUSCLE SHOALS	AL	(256) 314-0011	LYNNMFG.COM
RIVERSIDE REFRACTORIES, INC.	201 TRUSS FERRY ROAD	PELL CITY	AL	(205) 338-3366	RIVERSIDEREFRACTORIES.COM

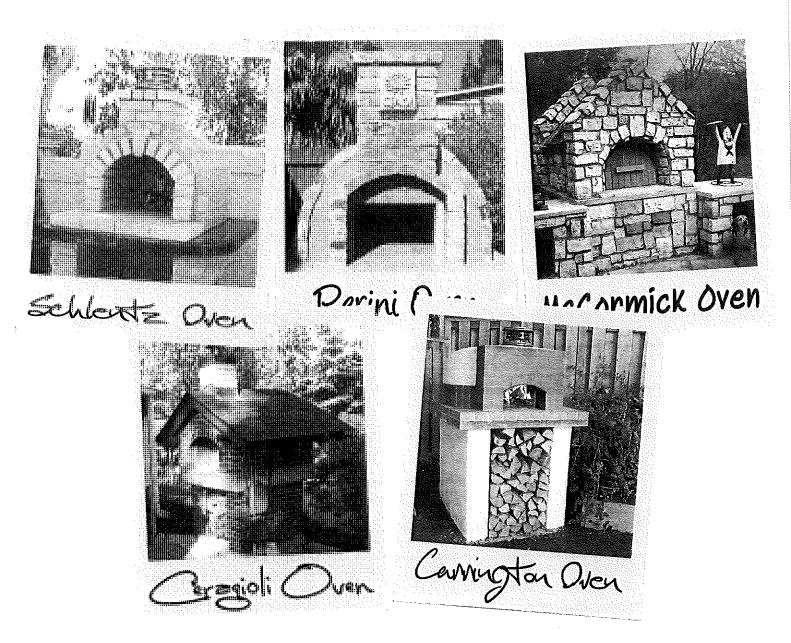
		TEVADICANA	AR	(870) 773-5531	RIMCOR.COM
RIMCOR	1205 JIM WALTER DRIVE	TEXARKANA HOT SPRINGS	AR	(501) 262-2834	FSSPERRY.COM
F.S. SPERRY	4378 MALVERN ROAD	LITTLE ROCK	AR	(501) 262-2834	DISTRIBUTIONINTL.COM
DISTRIBUTION INTERNATIONAL	8124 SCOTT HAMILTON	PHOENIX	AZ	(602) 244-9166	PORTERWARNER.COM
PORTER WARNER INDUSTRIES	2529 E. UNIVERSITY	And Arrest and a second second	CA	(714) 695-0200	CERAMTECH.COM
CERAMTECH	4875 E LA PALMA AVENUE / UNIT 609		CA	(510) 633-2133	PORTERWARNER.COM
PORTER WARNER INDUSTRIES	8707 SAN LEANDRO STREET	OAKLAND			PORTERWARNER.COM
PORTER WARNER INDUSTRIES	17700 S. SANTA FE AVENUE	RANCHO DOMINGUEZ	CA	(310) 635-0065	HWR.COM
ANH / HARBISON WALKER*	3451 COLLINS AVE	RICHMOND	CA	(510) 236-7415	
J.T. THORPE & SON*	1060 HENSLEY STREET	RICHMOND	CA	(510) 233-2500	JTTHORPE.COM
ANH / HARBISON WALKER*	11042 FOREST PLACE	SANTA FE SPRINGS	CA	(562) 942-2151	HWR.COM
GOLD COAST REFRACTORY	9630 SANTA FE SPRINGS ROAD	SANTA FE SPRINGS	CA	(562) 946-1942	GOLDCOASTREF.COM
WESTERN INDUSTRIAL CERAMICS	10306 FREEMAN AVENUE	SANTA FE SPRINGS	CA	(562) 946-6384	WICINC.COM
BUDGET CASTING SUPPLY	20811 UPPER HILLVIEW DRIVE	SONORA	CA	(209) 694-8601	BUDGETCASTINGSUPPLY.COM
E.J. BARTELLS	3950 NOME STREET / UNIT H	DENVER	co	(303) 373-0651	EJBARTELLS.COM
BNZ MATERIALS*	6901 SOUTH PIERCE STREET / SUITE 260	LITTLETON	CO	(303) 978-1199	BNZMATERIALS.COM
REFRACTORIES WEST	33163 BRANIFF AVENUE	PUEBLO	co	(719) 544-9043	REFWEST.COM
ZAMPELI.	2 RIDGE ROAD	PUTNAM	СТ	(860) 928-7448	ZAMPELL.COM
ANH / HARBISON WALKER*	163 BOSTON POST ROAD	WEST HAVEN	СТ	(203) 934-7960	HWR.COM
ATLANTIC FIREBRICK & SUPPLY	550 MLK JR. DRIVE	BALDWIN	FL	(904) 355-8333	ATLANTICFIREBRICK.COM
ANH / HARBISON WALKER*	3225 REYNOLDS ROAD	LAKELAND	FL	(863) 669-1040	HWR.COM
ZAMPELL	6801 PARKE EAST BOULEVARD	TAMPA	FL	(813) 630-2570	ZAMPELL,COM
ALL PRO REFRACTORIES	2060 FORWARD AUGUSTA DRIVE	AUGUSTA	GA	(706) 560-0990	ALLPROREFRY.COM
MORGAN THERMAL CERAMICS*	2102 OLD SAVANNAH ROAD	AUGUSTA	GA	(706) 796-4200	THERMALCERAMICS.COM
ANH / HARBISON WALKER*	300 PIEDMONT COURT / SUITE 300F	DORAVILLE	GA	(770) 448-6266	HWR.COM
LARKIN REFRACTORIES	2331 VARKEL WAY	LITHONIA	GA	(678) 336-7090	LARKINREFRACTORY.COM
THERMAL PRODUCTS CO	4520 S BERKELEY LAKE ROAD	NORCROSS	GA	(770) 662-0456	THERMALPRODUCTSCO.COM
BOBBY LASHLEY CORPORATION	601 BELL PARK CIRCLE	WOODSTOCK	GA	(770) 516-3414	BOBBYLASHLEYCORP.COM
	2525 18TH ST SW # 3	CEDAR RAPIDS	IA	(800) 999-0621	GAGNON-INC.COM
GAGNON				(563) 285-9229	REFRACTORYINSULATION.COM
REFRACTORY-INSULATION SUPPLY	101 TRAIL ROAD	ELDRIDGE	IA IA	(712) 456-2205	NO WEBSITE
CHRISTENSEN REFRACTORY	105 IOWA 183		il.		ALSEY.COM
ALSEY REFRACTORIES*	266 ILLINOIS 106	ALSEY		(217) 742-5501	· · · · · · · · · · · · · · · · · · ·
ANH / HARBISON WALKER*	1400 HUNTINGTON DRIVE	CALUMET CITY	<u>n.</u>	(708) 474-5350	HWR.COM
OSSOLA INDUSTRIALS	1740 WEST SEVENTH STREET	GRANITE CITY	IL	(618) 451-7350	OSSOLADISTRIBUTION.COM
V.J. MATTSON	9200 W. 191ST STREET / SUITE #1	MOKENA	1L	(708) 479-1990	VJMATTSON.COM
ANH / HARBISON WALKER*	2832 5TH STREET	ROCK ISLAND	IL	(563) 445-1244	HWR.COM
LANGE'S WAREHOUSE NETWORK	400 EARL ROAD / UNIT H	SHOREWOOD	IL.	(708) 377-7900	LANGESWAREHOUSENETWORK.COM
ARMIL CFS	15660 LASALLE STREET	SOUTH HOLLAND	IL.	(708) 339-6810	ARMILCFS.COM
EMPIRE REFRACTORY	580 CENTRAL	UNIVERSITY PARK	IL.	(708) 534-7800	EMPIRE-REFRACTORY.COM
RSC	4900 CLINE AVENUE	EAST CHICAGO	IN	(219) 397-7108	REFRACTORYSERVICE.NET
EMPIRE REFRACTORY	3525 METRO DRIVE	FORT WAYNE	IN	(260) 456-5656	EMPIREREFRACTORY.COM
HOT CREWS	4419 ARDMORE AVENUE	FORT WAYNE	IN	(260) 420-2739	HOTCREWS.COM
RSC	4902 CALUMET AVENUE	HAMMOND	IN	(219) 853-0885	REFRACTORYSERVICE.NET
BROWN REFRACTORY SERVICES	3545 WEST MORRIS STREET	INDIANAPOLIS	IN	(317) 244-7678	BROWNREFRACTORY.COM
EMPIRE REFRACTORY	7705 N. MICHIGAN ROAD	INDIANAPOLIS	IN	(317) 297-2703	EMPIRE-REFRACTORY.COM
FIRE BRICK ENGINEERS	5647 DIVIDEND ROAD	INDIANAPOLIS	IN	(317) 247-1447	FIREBRICKENGINEERS.COM
REFRACTORY ENGINEERS	1750 MIDWEST BOULEVARD	INDIANAPOLIS	IN	(317) 273-2000	REFRACTORYENG.COM
J W HICKS	20 KLOECKNER DRIVE	KNOX	IN	(574) 772-7755	JWHICKS.COM
J W HICKS	8955 LOUISIANA STREET	MERRILLVILLE	IN	(219) 736-2212	JWHICKS.COM
K-INDUSTRIAL OF INDIANA	3805 NEW HAVEN AVENUE	NEW HAVEN	IN	(734) 522-0051	K-INDUSTRIAL.COM
CANFIELD & JOSEPH	830 ARMOURDALE PARKWAY	KANSAS CITY	KS	(913) 621-1320	CANFIELDJOSEPH.COM
FERRIS KIMBALL	1401 FAIRFAX TRFWY / C-235	KANSAS CITY	KS	(913) 281-3022	FKIMBALLCO.COM
	14515 WEST 96TH TERRACE	LENEXA	KS	(913) 866-0425	HWR.COM
ANH / HARBISON WALKER*	4500 LOUISVILLE AVENUE	LOUISVILLE	KY	(502) 363-2656	LOUISVILLEFIREBRICK.COM
LOUISVILLE FIRE BRICK WORKS		BASTROP	LA	(318) 281-6303	RIMCOR.COM
RIMCOR	10995 SHELTON ROAD	GONZALES		(225) 644-2111	HWR.COM
ANH / HARBISON WALKER*				(225) 647-9682	DISTRIBUTIONINTL.CO
DISTRIBUTION INTERNATIONAL	1517 SOUTH EDWARD AVENUE	GONZALES			ICSCLA.COM
INDUSTRIAL CONSULTING & SUPPLY	39421 LOUISIANA 929	PRAIRIEVILLE		(225) 622-6941	
IMRIE-GIELOW	46116 SWALLOW BAYOU	ST. AMANT	LA	(225) 675-8099	IMRIEGIELOW.COM
HUNTER REFRACTORIES	1623 WASHINGTON STREET	HOLLISTON	MA	(508) 429-3673	HUNTERUSA.COM
LYNN MANUFACTURING	15 MARION STREET	LYNN	MA	(781) 593-2500	LYNNMFG.COM
ZAMPBELL	3 STANLEY TUCKER DRIVE	NEWBURYPORT	MA	(978) 465-0055	ZAMPELL.COM
DISTRIBUTION INTERNATIONAL	2504 51ST AVENUE	CHEVERLY	MD	(301) 772-0220	DISTRIBUTIONINTL.CO
DISTRIBUTION INTERNATIONAL	10942 BEAVER DAM ROAD	HUNT VALLEY	MD	(410) 785-4848	DISTRIBUTIONINTL.CO
ZAMPELL	192 1ST FLIGHT DRIVE	AUBURN	ME	(207) 786-2400	ZAMPELL.COM
INFAB REFRACTORIES	150 SUMMER STREET	LEWISTON	ME	(207) 783-2075	INFABREFRACTORIES.COM
SCHAD REFRACTORY	15240 CASTLETON	DETROIT	MI	(313) 273-2235	SCHADREFRACTORY.COM
N GOD LOTOLA	12321 STARK ROAD	LIVONIA	MI	(734) 522-2310	K-INDUSTRIAL.COM
K INDUSTRIAL		PLAINWELL	MI	(269) 685-8923	RIVERVIEWREFRACTORY.COM
K INDUSTRIAL RIVERVIEW REFRACTORY SERVICES	927 INDUSTRIAL PARKWAY		1	170 0 055 5005	HWR.COM
	927 INDUSTRIAL PARKWAY 28777 GODDARD ROAD / SUITES 203-204	ROMULUS	MI	(734) 955-6025	1111.008
RIVERVIEW REFRACTORY SERVICES			MI	(248) 437-0910	GMREFRACTORIES.COM
RIVERVIEW REFRACTORY SERVICES ANH / HARBISON WALKER*	28777 GODDARD ROAD / SUITES 203-204	ROMULUS			
RIVERVIEW REFRACTORY SERVICES ANH / HARBISON WALKER* G.M. REFRACTORIES	28777 GODDARD ROAD / SUITES 203-204 385 NORTH MILL STREET	ROMULUS SOUTH LYON	М	(248) 437-0910	GMREFRACTORIES.COM
RIVERVIEW REFRACTORY SERVICES ANH / HARBISON WALKER* G.M. REFRACTORIES NEDROW REFRACTORIES EMPIRE REFRACTORY	28777 GODDARD ROAD / SUITES 203-204 385 NORTH MILL STREET 150 LANDROW DRIVE 2000 BYRON CENTER AVE SW	ROMULUS SOUTH LYON WIXOM	MI MI	(248) 437-0910 (248) 669-2500	GMREFRACTORIES.COM CHASENEDROW.COM
RIVERVIEW REFRACTORY SERVICES ANH / HARBISON WALKER* G.M. REFRACTORIES NEDROW REFRACTORIES EMPIRE REFRACTORY INDUSTRIAL FIREBRICK	28777 GODDARD ROAD / SUITES 203-204 385 NORTH MILL STREET 150 LANDROW DRIVE 2000 BYRON CENTER AVE SW 5965 CLAY AVENUE S.W.	ROMULUS SOUTH LYON WIXOM WYOMING	MI MI MI	(248) 437-0910 (248) 669-2500 (616) 261-1546	GMREFRACTORIES.COM CHASENEDROW.COM EMPIRE-REFRACTORY.COM
RIVERVIEW REFRACTORY SERVICES ANH / HARBISON WALKER* G.M. REFRACTORIES NEDROW REFRACTORIES EMPIRE REFRACTORY INDUSTRIAL FIREBRICK FIRE BRICK ENGINEERS	28777 GODDARD ROAD / SUITES 203-204 385 NORTH MILL STREET 150 LANDROW DRIVE 2000 BYRON CENTER AVE SW 5965 CLAY AVENUE S.W. 3219 SNELLING AVE	ROMULUS SOUTH LYON WIXOM WYOMING WYOMING	MI MI MI MI	(248) 437-0910 (248) 669-2500 (616) 261-1546 (616) 363-4717	GMREFRACTORIES.COM CHASENEDROW.COM EMPIRE-REFRACTORY.COM INDFIREBRICK.COM
RIVERVIEW REFRACTORY SERVICES ANH / HARBISON WALKER* G.M. REFRACTORIES NEDROW REFRACTORIES EMPIRE REFRACTORY INDUSTRIAL FIREBRICK	28777 GODDARD ROAD / SUITES 203-204 385 NORTH MILL STREET 150 LANDROW DRIVE 2000 BYRON CENTER AVE SW 5965 CLAY AVENUE S.W.	ROMULUS SOUTH LYON WIXOM WYOMING WYOMING MINNEAPOLIS	MI MI MI MI	(248) 437-0910 (248) 669-2500 (616) 261-1546 (616) 363-4717 (612) 721-3910	GMREFRACTORIES.COM CHASENEDROW.COM EMPIRE-REFRACTORY.COM INDFIREBRICK.COM FIREBRICKENGINEERS.COM

HI TEMP REFRACTORIES	2250 NORTH LARK DRIVE	FENTON	MO	(636) 677-2200	HITEMPINCUSA.COM
MORCO REFRACTORIES*	1198 MASON CIRCLE DRIVE	PEVELY	MO	(636) 479-7770	REFRACTORIES.NET
ALSEY REFRACTORIES*	1600 S. BRENTWOOD BLVD / SUITE 210	ST. LOUIS	MO	(314) 963-7900	ALSEY.COM
ANH / HARBISON WALKER*	6585 JONAS PLACE	ST. LOUIS	MO	(314) 521-3314	HWR.COM
CANFIELD & JOSEPH	5460 BROWN AVE	ST. LOUIS	MO	(314) 381-0151	CANFIELDJOSEPH.COM
CHRISTY CO.	4641 MCREE AVENUE	ST. LOUIS	MO	(314) 773-7500	CHRISTYCO.COM
DISTRIBUTION INTERNATIONAL	3515 PAPIN STREET	ST. LOUIS	MO	(314) 633-4968	DISTRIBUTIONINTL.COM
IMRIE-GIELOW	2823 PAPIN STREET	ST. LOUIS	MO	(314) 772-4200	IMRIEGIELOW.COM
M D MAGARY REFRACTORY	5550 NORTH BROADWAY	ST. LOUIS	MO	(314) 771-1400	MDMAGARY.COM
DISTRIBUTION INTERNATIONAL	2735 BAILEY AVENUE	JACKSON,	MS	(601) 368-3000	DISTRIBUTIONINTL.COM
E.J. BARTELLS	7015 TRADE CENTER AVENUE	BILLINGS	MT	(406) 652-2730	EJBARTELLS.COM
WYO-BEN	1345 DISCOVERY DRIVE	BILLINGS	MT	(406) 652-6351	WYOBEN.COM
ANH / HARBISON WALKER*	2233 INTERSTATE NORTH DRIVE / SUITE F	CHARLOTTE	NC	(704) 599-6540	HWR.COM
ONEX	206 W. 30TH STREET	CHARLOTTE	NC	(704) 372-1560	ONEXNET.COM
SOUTHERN SERVICES COMPANY	1700 WEST POINTE DRIVE	CHARLOTTE	NC	(704) 341-5577	SOUTHERNSERVICECO.COM
VIRGINIA CAROLINA REFRACTORY	/ SUITE E	DENVER	NC	(704) 483-1325	VIRGINIACAROLINAREFRACTORY.COM
DISTRIBUTION INTERNATIONAL	3020 A THURSTON AVENUE	GREENSBORO	NC	(336) 273-6425	DISTRIBUTIONINTL.COM
PIEDMONT FOUNDRY SUPPLY	445 ROCKY RIVER ROAD	OAKBORO	NC	(704) 485-2200	PIEDMONTFOUNDRYSUPPLY.COM
JOE MOORE & COMPANY	1431 GAVIN STREET	RALEIGH	NC	(919) 832-1665	JOEMOORECOMPANY.COM
E.J. BARTELLS	896 DOVE COURT	BISMARCK	ND	(701) 255-5777	EJBARTELLS.COM
GAGNON	7516 YUKON DRIVE	BISMARCK	ND	(701) 258-1276	GAGNON-INC.COM
	3825 SARATOGA AVENUE	OMAHA	NE	(402) 345-3223	PLIBRICO.COM
PLIBRICO*	32 Construction of the Second Construction of the Second S Second Second S Second Second Sec Second Second Sec	RAHWAY	NJ	(732) 388-8686	HWR.COM
ANH / HARBISON WALKER*	2815 NORTH 11TH STREET	ROBBINSVILLE	NJ	(609) 890-7007	MCNEILUSA.COM
THE MCNEIL COMPANIES	868 ELSTON	SPARKS	NV	(775) 355-8300	HUNTERUSA.COM
HUNTER REFRACTORIES	15 MARLEN DRIVE		NY	and the rest of the second sec	HWR.COM
ANH / HARBISON WALKER*	1095 SPICE ISLANDS DRIVE	CHEEKTOWAGA	NY	(716) 592-1761	HANYAN-HIGGINS.COM
HANYAN - HIGGINS	1283 FIRST AVE	EAST SYRACUSE		(315) 458-2033	DISTRIBUTIONINTL.COM
DISTRIBUTION INTERNATIONAL	25 TIMBERLAKE DRIVE	LONG ISLAND CITY	NY	(800) 327-8432	
HANYAN - HIGGINS	7397 TAFT PARK DRIVE	MASSENA	NY	(315) 769-8838	HANYAN-HIGGINS.COM
UPSTATE REFRACTORY SERVICE	2351 WHIRLPOOL STREET	NEWARK	NY	(315) 331-2955	UPSTATEREFRACTORY.COM
UNIFRAX*	9772A STATE HIGHWAY 56	NIAGARA FALLS	NY	(541) 632-3729	UNIFRAX.COM
CMS INDUSTRIES (HEATSTOP)*	575 LUDWIG AVENUE	ORCHARD PARK	NY	(716) 667-2321	HEATSTOPREFRACTORYMORTAR.CON
HANYAN - HIGGINS	11-40 BORDEN AVE	WATERVLIET	NY	(518) 272-3741	HANYAN-HIGGINS.COM
WHITACRE-GREER*	767 STATE ROUTE 19 S	ALLIANCE	он	(330) 823-1610	WGPAVER.COM
ANH / HARBISON WALKER*	2700 SCIOTO PARKWAY	BATAVIA	OH	(513) 576-6240	HWR.COM
SELINSKY FORCE	1430 MILLER PARKWAY	CANTON	он	(330) 477-0408	SELINSKYFORCE.COM
ANH / HARBISON WALKER*	4065 CLOUGH WOODS DRIVE / UNIT A	CLEVELAND	ОН	(216) 398-1790	HWR.COM
INLAND FIRE BRICK	3264 SOUTH AVENUE	CLEVELAND	OH	(216) 941-1788	NO WEBSITE
NOCK REFRACTORIES	4138 MONROE HOLLOW ROAD	CLEVELAND	ОН	(216) 431-2500	NOCKREFRACTORIES.COM
ALLIED MINERAL	131 SHACKELFORD ROAD	COLUMBUS	ОН	(614) 876-0244	ALLIEDMINERAL.COM
WAHL REFRACTORY SOLUTIONS	11301 JEFFERSON AVENUE	FREMONT	ОН	800837 WAHL	WAHLREF.COM
AERISS	100 ERIE BOULEVARD	NORTH LIMA	ОН	- (330) 549-9301	AERISS.COM
NOCK & SON	1243 EAST 55TH STREET	OAK HILL	ОН	(740) 682-7741	NOCKANDSON.COM
ALLEN REFRACTORIES	11333 SOUTH AVENUE	PATASKALA	ОН	(740) 927-8000	ALLENREFRACTORIES.COM
UNITED REFRACTORIES	4824 CORPORATE STREET SOUTHWEST	SHARONVILLE	ОН	(613) 563-9955	UNITEDREFRACTORIESCO.COM
ONEX	1243 EAST 55TH STREET	STREETSBORO	ОН	(330) 995-9015	ONEXNET.COM
EMPIRE REFRACTORY	4620 HINCKLEY INDUSTRIAL PKWY / UNIT 6	TOLEDO	ОН	(419) 385-5554	EMPIRE-REFRACTORY.COM
MOORLANE SUTTON SUPPLY	6536 E. 42ND STREET	OKLAHOMA CITY	ОК	(405) 236-3591	MSUTTONSUPPLY.COM
BRYANT REFRACTORY	1400 SOUTH MAHONING AVENUE	TULSA	ох	(918) 446-1481	BRYANTREFRACTORY.COM
CANFIELD & JOSEPH	6802 S. 65TH WEST AVENUE	TULSA	ок	(918) 663-8380	CANFIELDJOSEPH.COM
THERMAL SPECIALTIES	203 SOUTH KLEIN AVENUE	TULSA	ок	(918) 836-4800	THERMALSPECIALTIES.COM
ANH / HARBISON WALKER*	6314 EAST 15TH STREET	SMITHVILLE	ON	(905) 957-4564	HWR.COM
ANH / HARBISON WALKER*	2689 INDUSTRIAL PARK ROAD	CLACKAMAS	OR	(503) 656-2854	HWR.COM
E.J. BARTELLS	19039 NORTHEAST PORTAL WAY	EUGENE	OR	(541) 484-0486	EJBARTELLS.COM
E.J. BARTELLS	13023 SE JENNIFER STREET / SUITE 503	PORTLAND	OR	(503) 492-9999	EJBARTELLS.COM
HIGH-TEMP	3980 ROOSEVELT BLVD	PORTLAND	OR	(503) 737-0345	HIGHTEMPINC.NET
NORTHWEST INDUSTRIAL	UNIT A	PORTLAND	OR	(503) 286-3666	FOUNDRYSTUFF.COM
WESTERN INDUSTRIAL CERAMICS	14025 N RIVERGATE BOULEVARD	TUALATIN	OR	(503) 692-3770	WICINC.COM
BURKHART REFRACTORY INSTL	4667 SOMERTON ROAD / SUITE A	BETHEL TOWNSHIP	PA	(717) 933-8738	BURKHARTREFRACTORY.COM
BURKHART REFRACTORY INSTL WHETSTONE*	7TH & ALLEGHENY AVENUE	CABOT	PA	(724) 352-0255	WHETSTONE-CERAMICS.COM
and the second	4882 CURWENSVILLE GRAMPIAN HIGHWAY	CRESCENT	PA	(724) 457-7210	ONEXNET.COM
		CROYDON	PA	(215) 788-3000	ZAMPELL.COM
	1910 COCHRAN ROAD	ELIZABETH	PA	(412) 384-5220	CHIZBROS.COM
CHIZ BROTHERS	191 FRONT STREET	ELIZABETH	PA	(814) 838-9638	ONEXNET,COM
	736 WEST INGOMAR ROAD		PA	(412) 672-9212	TRISTATEINDSVC.COM
TRI-STATE INDUSTRIAL SERVICES	2 PENN CENTER WEST	GLASSPORT	PA	(215) 355-2712	LUXIND.COM
LUX INDUSTRIES	301 BEAGLE ROAD	HOLLAND	PA	(412) 367-9100	MTSAVAGE.COM
MT. SAVAGE*	736 WEST INGOMAR ROAD	INGOMAR	_		HWR.COM
ANH / HARBISON WALKER*	10725 SW TUALATIN-SHERWOOD ROAD	LEETSDALE		(412) 741-3200	REFRACTORIES.COM
MILBRO REFRACTORIES	2117 LINCOLN BOULEVARD	MCMURRAY	PA	(724) 941-6480	the second s
WESTMORELAND ADVANCED MATERIALS	1250 CLARION STREET	MONESSEN	PA	(724) 684-5902	WESTADMAT.COM
RESCO PRODUCTS*	1308 MAIN STREET	PITTSBURGH	PA	(412) 494-4491	RESCOPRODUCTS.COM
UNIFRAX*	/ SUITE 430	PITTSBURGH	PA	(412) 563-6548	UNIFRAX.COM
AMERICAN REFRACTORY	10771 N LOMBARD STREET	POTTSTOWN	PA	(610) 718-0450	AMERICANREFRACTORY.COM
SNYDER CONTRACTORS	2225 COLONIAL AVENUE	READING	PA	(610) 375-4422	SNYDER-CONTRACTORS.COM
	725 OLD MARPLE ROAD	SPRINGFIELD	PA	(610) 544-2586	WOODFIREDOVENPA.COM
GALANTINO SUPPLY	720 OLD MARFLE ROAD	and the second			A set of the set of
GALANTINO SUPPLY ANH / HARBISON WALKER*	301 SOUTH KEIM STREET	TREVOSE	PA	(215) 364-5555 (724) 452-8650	HWR.COM BNZMATERIALS.COM

DISTRIBUTION INTERNATIONAL	125 PHYLLIS DRIVE	COLUMBIA	sc	(803) 714-7151	DISTRIBUTIONINTL.COM
CAROLINA REFRACTORIES	110 RIVERVIEW DRIVE	CONWAY	sc	(843) 365-3400	CAROLINAREFRACTORIES.COM
DISTRIBUTION INTERNATIONAL	891 WINFIELD ROAD	PIEDMONT	sc	(864) 299-1770	DISTRIBUTIONINTL.COM
PORTER WARNER INDUSTRIES	133 CEDAR HILL ROAD	RICHBURG	sc	(803) 789-3444	PORTERWARNER.COM
INDUSTRIAL SERVICES CO.	3673 HIGHWAY 701 N	SIX MILE	sc	<u> </u>	
INDUSTRY SERVICES	1501 PIEDMONT HWY			(864) 868-4200	INDUSTRYSVCS.COM
INDUSTRY SERVICES	95 SUNBELT BLVD / STE C	SIX MILE	sc	(864) 868-4200	INDUSTRYSCI.COM
FIRE BRICK ENGINEERS		SUMMERVILLE	SC	(843) 821-6141	INDUSTRYSCI.COM
	SUITE 104	CHATTANOOGA	TN	(423) 827-0882	FIREBRICKENGINEERS.COM
PORTER WARNER INDUSTRIES	2361 PARK PLUS DRIVE	CHATTANOOGA	TN	(423) 266-4735	PORTERWARNER.COM
F.S. SPERRY	2847 JOHN DEERE DRIVE	COLUMBIA	TN	(931) 380-1662	FSSPERRY,COM
ANH / HARBISON WALKER*	133 CEDAR HILL ROAD	KNOXVILLE	TN	(865) 546-4930	HWR.COM
F.S. SPERRY	818D CENTRAL AVENUE	LOUISVILLE	TN	(865) 977-9804	FSSPERRY.COM
F.S. SPERRY	530 L & C DISTRIBUTION PARK	MEMPHIS	TN	(901) 373-9000	FSSPERRY.COM
NSULATION & REFRACTORIES SERVICES	125 ARWOOD DRIVE	MEMPHIS	TN	(901) 522-4300	IRS2.CC
LYNN WHITSETT CORPORATION	1907 VANDERHORN DRIVE	MEMPHIS	TN	(901) 365-7650	LYNNWHITSETTCORP.COM
SOUTHWEST REFRACTORY OF TEXAS	3202 MCKINNEY STREET	ALVIN	TX	(281) 824-9342	SOUTHWEST-COMPANIES.COM
PORTER WARNER INDUSTRIES	6401 TWIN CITY HWY	ARLINGTON	ТХ	(817) 633-1767	PORTERWARNER.COM
ZAMPELL	12623 CLABURY COURT	BEAUMONT	тх	(409) 853-4985	ZAMPELL.COM
ALLIED MINERAL	462 DECATUR STREET	BROWNSVILLE	ТХ	(614) 876-0244	ALLIEDMINERAL.COM
DISTRIBUTION INTERNATIONAL	/ SUITE 238	CORPUS CHRISTI	ТХ	(361) 883-3651	DISTRIBUTIONINTL.COM
ANH / HARBISON WALKER*	4126 DELP STREET	DALLAS	TX	(214) 330-9243	HWR.COM
PORTER WARNER INDUSTRIES	9000 RAILWOOD DRIVE	EL PASO	тх	(602) 244-9166	PORTERWARNER.COM
CANFIELD & JOSEPH	3025 MINERAL LOOP	FORT WORTH	TX	(817) 654-9181	CANFIELDJOSEPH.COM
ABLE SUPPLY COMPANY	4295 CROMWELL ROAD	HOUSTON	TX	(713) 926-9623	ABLEREFRACTORY.COM
ANH / HARBISON WALKER*	NO 2 EAST 38TH STREET	HOUSTON		<u> </u>	
CANFIELD & JOSEPH	5220 TEXAS AVE		TX	(713) 635-3200	HWR.COM
DISTRIBUTION INTERNATIONAL		HOUSTON	TX	(281) 822-0526	CANFIELDJOSEPH.COM
PORTER WARNER INDUSTRIES	4401 N FRANKFORD AVENUE	HOUSTON	TX	(713) 428-3700	DISTRIBUTIONINTL.COM
	4733 BALDWIN BOULEVARD	HOUSTON	TX	(713) 222-6210	PORTERWARNER.COM
REFRACTORIES INCORPORATED	102 LOOP CIRCLE S	HOUSTON	TX	(713) 947-8010	REFRACTORIESINC.COM
SPAR REFRACTORIES*	633 107TH STREET	HOUSTON	TX	(713) 305-4642	SPARREF.COM
	12900 NYACK DRIVE	HOUSTON	TX	(281) 590-8500	TFLHOUSTON.COM
DISTRIBUTION INTERNATIONAL	4849 HOMESTEAD	IRVING	ТΧ	(972) 785-9900	DISTRIBUTIONINTL.COM
HI TEMP SYSTEMS	1761 SHIPMAN	LONGVIEW	TX	(903) 236-4056	HITEMPSYSTEMS.COM
COMBUSTION SERVICE CO	4585 MINT WAY	LUBBOCK	TX	(806) 763-2971	COMBUSTIONSERVICECO.COM
SPECIALTY FOUNDRY PRODUCTS	7180 MERCHANT	LUFKIN	тх	(866) 535-0855	SPECFOUNDRY.COM
WESCO REFRACTORIES	2443 NORTH GORDON	MANSFIELD	ТХ	(817) 332-1589	WESCOI.COM
INDUSTRIAL INSULATION & SHEET	2200 REGENCY DRIVE	ODESSA	тх	(432) 332-8203	IISMI.COM
DISTRIBUTION INTERNATIONAL	566 N. BEACH STREET	PORT ARTHUR	TX	(409) 962-5684	DISTRIBUTIONINTL.COM
DISTRIBUTION INTERNATIONAL	9139 WALLISVILLE ROAD	SAN ANTONIO	ТΧ	(210) 270-7563	DISTRIBUTIONINTL.COM
SOUTHERN REFRACTORIES	3339 KERMIT HIGHWAY	SOUTHLAKE	ТX	(817) 379-6578	SOUTHERNREFRACTORIESINC.COM
VESUVIUS USA*	880 DAVIS BOULEVARD / SUITE # A	TYLER	ΤХ	(903) 597-7237	VESUVIUS.COM
ANH / HARBISON WALKER*	4521 WEST 1980 SOUTH / SUITE 503	SALT LAKE CITY	UT	(801) 886-0545	HWR.COM
E.J. BARTELLS	14626 CHRISMAN ROAD	SALT LAKE CITY	UT	(801) 972-1821	EJBARTELLS.COM
PORTER WARNER INDUSTRIES	1812 DUNCAN STREET	SALT LAKE CITY	UT	(602) 244-9166	PORTERWARNER.COM
MOUNTAIN VIEW POWER	301 SOUTH 6TH AVENUE	SALT LAKE CITY	UT	(801) 973-4455	MVPSLC.COM
DISTRIBUTION INTERNATIONAL	431 N. NEIL ARMSTRONG ROAD	ALEXANDRIA	VA		
DISTRIBUTION INTERNATIONAL	909 WEST 2900 SOUTH	HAMPTON	VA	(703) 922-6530	DISTRIBUTIONINTL.COM
DISTRIBUTION INTERNATIONAL	4521 WEST 1980 SOUTH / SUITE 503			(757) 826-3570	DISTRIBUTIONINTL.COM
DISTRIBUTION INTERNATIONAL DISTRIBUTION INTERNATIONAL		RICHMOND	VA	(804) 743-9091	DISTRIBUTIONINTL.COM
ANH / HARBISON WALKER*	1481 SOUTH 700 WEST	ROANOKE	VA	(540) 563-8850	DISTRIBUTIONINTL.COM
	2150 STILLWATER DRIVE	SALEM	VA	(540) 375-2107	HWR.COM
E.J. BARTELLS	603 HOWMET DRIVE	ARLINGTON	WA	(360) 435-0211	EJBARTELLS.COM
ANH / HARBISON WALKER*	2001 INDUSTRIAL DRIVE	KENT	WA	(253) 872-2552	HWR.COM
E.J. BARTELLS	6310-I GRAVEL AVENUE	RENTON	WA	(425) 228-4111	EJBARTELLS.COM
E.J. BARTELLS	2501 BELLWOOD ROAD	SPOKANE VALLEY	WA	(509) 928-0315	EJBARTELLS.COM
JF HARRISON	1206 NORTH THIERMAN ROAD	CEDARBURG	WI	(262) 376-0101	JFHARRISONREFRACTORY.COM
GAGNON	20408 87TH AVENUE SOUTH / BUILDING I	HUDSON	WI	(715) 386-3096	GAGNON-INC.COM
REFRACTORY SERVICE	20325 - 71ST AVENUE NORTHEAST / STE. D	JACKSON	WI	(800) 522-5770	REFRACTORYSERVICE.COM
FIRE BRICK ENGINEERS	721 DREW AVENUE NE	MILWAUKEE	WI	(414) 383-6000	FIREBRICKENGINEERS.COM
FINE BRICK ENGINEERS					
EMPIRE REFRACTORY	700 POWELL AVENUE SOUTHWEST	WARWOOD	WV	(304) 277-2251	EMPIREREFRACTORY.COM

20+ Collection Masonry Outdoor Fireplace Plans





Show the World your BrickWood Oven!

Before you dig your foundation or lay that first brick, be sure to take several pictures of the area you're building your new BrickWood Oven. These pictures will be the first in a series of photos that document your progress as you construct one of the most rewarding DIY projects at your home.

When taking a good photo, make sure you tidy-up the area around your oven. You want people to see pictures of your awesome oven - not pictures of yard tools, empty concrete bags or crushed beer cans..

Be sure to use a good quality digital camera and take lots of pictures! Nobody uses film anymore, so click away and send us your best shots - we want to show them to the world! You can upload your photos on our website or simply email them to us as you build your oven. Each customer has their own picture file and we will store your photos as they come in. Visit our website for more info or email your 1mb - 2mb pictures to:

Pictures@BrickWoodOvens.com



DURING THE NEXT 8 STEPS, YOU WILL BE MIXING YOUR CASTABLE REFRACTORY WITH STAINLESS STEEL FIBERS AND CLEAN WATER. IT IS CRUCIAL THAT YOU MIX ALL THE INGREDIENTS EXACTLY AS DESCRIBED BELOW. FAILURE TO DO SO WILL RESULT IN A WEAK AND/OR BRITTLE WOOD-FIRED OVEN!

Test the consistency of the Castable Refractory by using the **Ball-in-Hand** testing method. After putting gloves on, grab a handful of Refractory and shape it into a ball. Throw the ball 1 foot (12 Inches) into the air and catch it.

If the refractory lands with a "*splat*" and runs through your fingers..

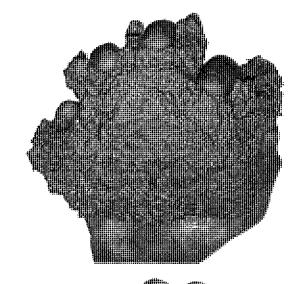
TOO MUCH WATER!

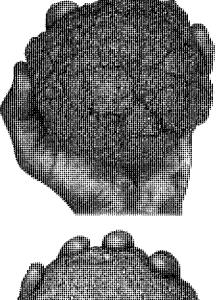
If the refractory lands in your hand and feels dry like it's about to fall apart..

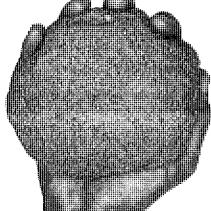
NOT ENOUGH WATER!

If the refractory lands with a nice sold "thud" and stays in a firm, round form *(like pizza dough)..*

PERFECT!!!







STEP A-6

V-V

Begin your project by placing the contents of Box 1 on a plastic tarp in a DRY location with a SUPER FLAT surface.

(Hint.. the car garage is PERFECT!!)

Comience su proyecto colocando el contenido de la casilla 1 sobre una lona de plástico en un lugar seco, con una superficie plana.

(Sugerencia.. El garaje es perfecto!)

Based on the factory recommendations of the type of refractory you are using, measure for the correct amount of water to mix <u>3 bags</u>.

<u>(Refer to your brand of castable refractory</u> <u>for proper Mix-to-Water ratio)</u>

Basándose en las recomendaciones de fábrica del tipo de refractario que está utilizando, medida por la cantidad correcta de agua para mezclar <u>3 bolsas.</u>

(Consulte a su refractario para la mezcla correcta de relación agua)

Turn the cement mixer on and add 1/2 of the measured water into the mixer.

DO NOT TURN OFF MIXER UNTIL STEP 13

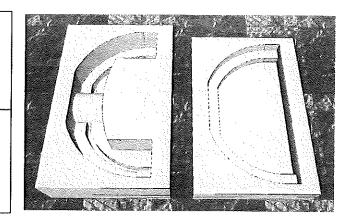
Activar el mezclador de cemento y añadir ½ del agua medida en la mezcladora.

NO APAGUE BATIDORA HASTA EL PASO 13

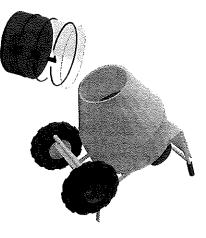


Slowly add the first bag of refractory into the mixer.

Poco a poco agregue la primera bolsa de refractario en el mezclador.









G

Add the remaining measured water into the mixer.

Añadir el resto del agua medido en la mezcladora.

Slowly sprinkle the 1st bag of stainless steel fibers (*included with the Cortile Barile kit*) into the mixer.

SPRINKLE THE FIBERS! DO NOT DUMP!

NOTE: (1) Bag of Fibers per (1) 50/55lb Bag of Refractory

Poco a poco espolvorear la primera bolsa de fibras de acero inoxidable en el mezclador.

ESPOLVOREAR LA FIBRAS! NO ENVIAR!

NOTA: (1) Bolsa de Fibras por (1) Bolsa de 50/55lb Refractarla

N

Slowly pour the **2nd <u>&</u> 3rd** bag of refractory into the mixer.

Vierta lentamente la bolsa de **2nd y 3rd** de refractario en el mezclador.

Slowly sprinkle the **2nd & 3rd** bag of stainless steel fibers into the mix and run the mixer for 2 to 3 additional minutes.

If the refractory mix is still too dry (not pliable), you may need to add <u>small</u> amount of water. Remember – you want the refractory to be firm.

Lentamente espolvorear la de **2nd y 3rd** de fibras de acero inoxidable en la mezcla y ejecutar el mezclador durante 2 a 3 minutos adicionales.

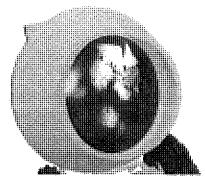
Si la mezcla refractaria sigue siendo demasiado seco (no flexible), puede que tenga que añadir una pequeña cantidad de agua. Recuerde – usted quiere que el refractario que ser firme.



STEP A-13

Verify that ALL THE REFRACTORY is blended (no dry sections sticking to the mixer), turn off the mixer and grab the hand shovel.

Verifique que todos los REFRACTARIO se mezcla (sin secciones secas se pegue a la mesa de mezclas), apague la batidora y agarrar la pala de mano.



STEP A-14

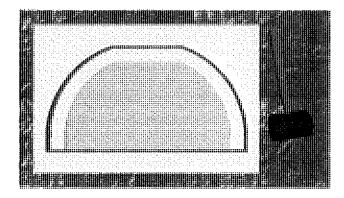
Pour the refractory mix into the first layer of the Back Wall form. Be sure you firmly pack the refractory into every corner and joint.

Verter la mezcla refractaria en la primera capa de la forma de la pared trasera. Asegúrese de empacar el material refractario firmemente en todas las esquinas y las articulaciones.

STEP A-15

As you continue to fill the form, occasionally LIGHTLY tap all 4 sides of the foam form with the rubber mallet.

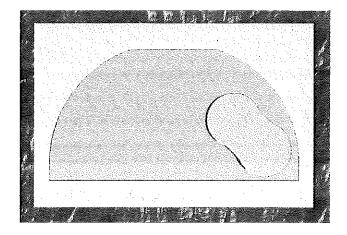
A medida que continúe para llenar el formulario, de vez en cuando toca los 4 lados de la forma de espuma con el mazo de goma.



STEP A-16

Fill the foam form until it is even / parallel With the foam form. Trowel smooth.

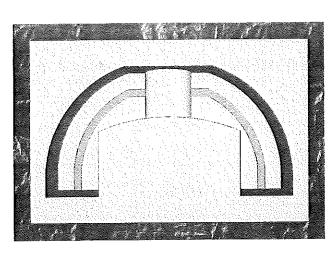
Llene el formulario de espuma hasta que se empareje / paralelo con la forma de espuma. Llana lisa.



60

On the Front Wall form, firmly pack the refractory into the first layer of the foam form.

En la forma de la pared frontal, empacar firmemente el refractario en la primera capa de la forma de espuma.



Pack the refractory until it is level / parallel with the top of the foam form. <u>Don't forget to tap the sides of the form with your mallet during this step</u>!

Empaque el refractario hasta que esté nivelada / paralelo con la parte superior de la forma de espuma. <u>No te olvides de aprovechar los lados</u> <u>del formulario con su mazo durante este paso!</u>

STEP A-19

STEP A-20

Great Job! You are halfway done building your oven! Now open Box 2.. but remember..

DO NOT REMOVE THE FOAM FROM BOX 2!

¡Buen trabajo! Usted está a medio camino hecho la construcción de su horno! Ahora abra el recuadro 2 .. pero recuerda ..

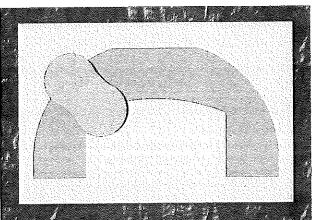
NO QUITE LA ESPUMA DE BOX 2!

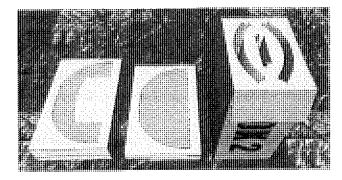
Begin by filling the CENTER slot with (1) bucket of refractory from the 2-Gallon bucket.

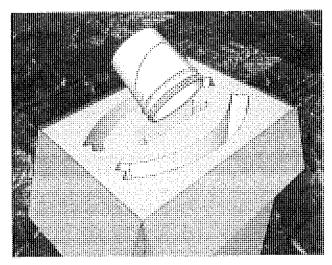
DO NOT EXCEED 1 BUCKET OF REFRACTORY!

Comience llenando la ranura central con (1) cubo de refractario de la cubeta de 2-galones.

NO EXCEDA 1 CUCHARA DE REFRACTARIO!







Ľ

STEP A-2

STEP A W

We HIGHLY RECOMMEND you rent (or borrow) a 2.5 cubic foot cement mixer when building the Cortile Barile Oven & Base. You will be mixing a lot of cement and the mixer is a true time saver. Your back & shoulders will thank you!!

Simply <u>Google Map</u> "equipment rental" and your postal code. Several locations will be provided.

You will need the mixer for 1 week.

Place all of the tools & materials you will need in reaching distance. Refractory sets quickly, so you will not have time to search for forgotten tools and missing materials.

Coloque todas las herramientas y materiales que se necesitan para llegar lejos. Conjuntos refractarios rápidamente, por lo que no tendrá tiempo para buscar herramientas olvidadas y materiales que faltan.

The Cortile Barile foam mold is packaged in two (2) identically sized boxes.

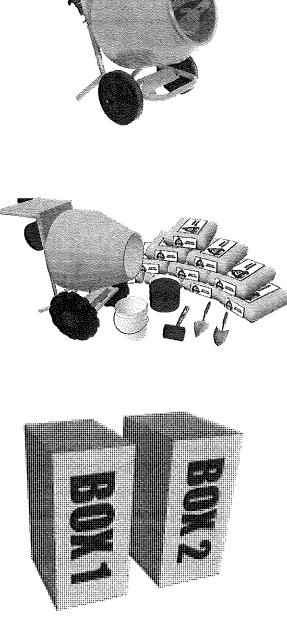
El molde de espuma Cortile Barile se envasa en dos (2) cajas de idéntico tamaño.

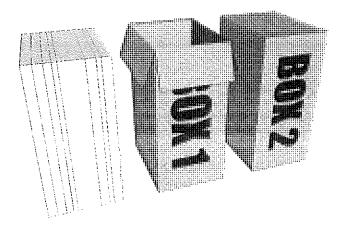
Remove the contents of Box 1 and carefully set the (2) outer foam panels aside as they will be used in the construction of the base.

DO NOT REMOVE THE FOAM FROM BOX 2!

Retire el contenido de la casilla 1 y cuidadosamente ajustado los paneles (2) exteriores de espuma a un lado como se van a utilizar en la construcción de la base.

NO QUITE LA ESPUMA DE BOX 21





STEP A-21

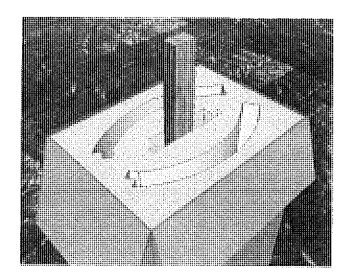
STEP A-22

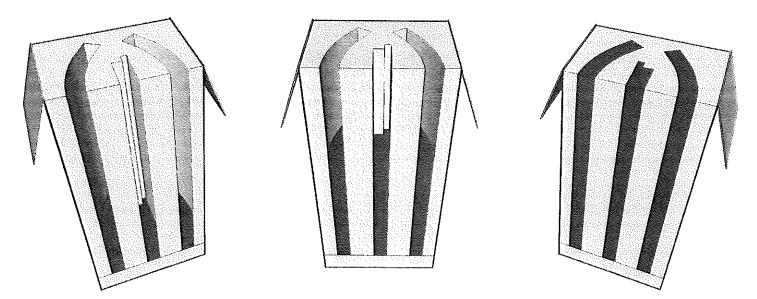
Firmly pack the Refractory with the 2" x 4" x 4'.

PACK <u>SLOWY</u> YET FIRMLY! DO NOT LEAVE ANY AIR POCKETS!

Apisone la refractaria con los 2" x 4" x 4".

PAQUETE <u>SLOWY</u> PERO CON FIRMEZA! NO DEJE LAS BOLSAS DE AIRE!





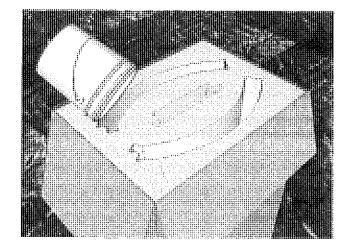
FILL ALL 3 SECTIONS AT THE SAME LEVEL

Fill <u>BOTH</u> Side Wall sections with **(2) buckets** of refractory.

DO NOT EXCEED 2 BUCKETS OF REFRACTORY!

Llene cualquiera de las secciones de pared lateral con (2) cubetas de refractario.

NO EXCEDA 2 CUCHARA DE REFRACTARIO!



FIRMLY PACK the refractory then repeat Steps A22 & A23 on the OPPOSITE SIDE. Fill and Pack each side and ALTERNATE SIDES as you work your way up.

FIRMEMENTE Pack el refractarios repita los pasos A22 y A23 en el LADO OPUESTO. Llenar y Paquete cada lado y LADOS ALTERNOS como usted trabaja su manera para arriba.

Trowel Smooth. That's it! You're done! Go clean your tools!

Llana lisa.

¡Eso es todo! ¡Ya está! Ve a limpiar sus herramientas!

STEP A-25

STEP A-26

STEP A-24

ALLOW THE OVEN 7 DAYS TO DRY!!

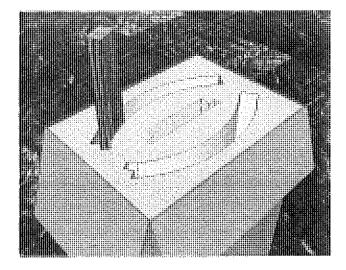
DEJE QUE EL HORNO SE SEQUE DURANTE 7 DÍAS!!

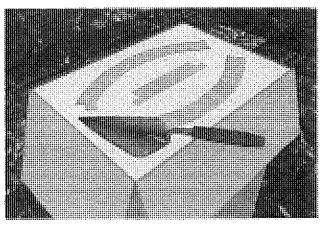
Now it's time to build the base. Be sure to download the directions for the Cortile Barile Oven from the BrickWood Ovens website!

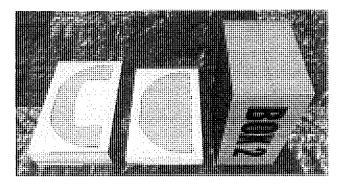
(47" X 56" Insulated Base Instructions)

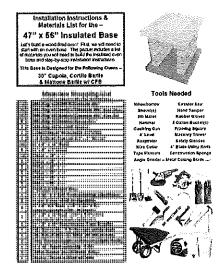
Ahora es el momento de construir la base. Asegúrese de descargar las instrucciones Para el horno Barile Cortile de la página web BrickWood Ovens!

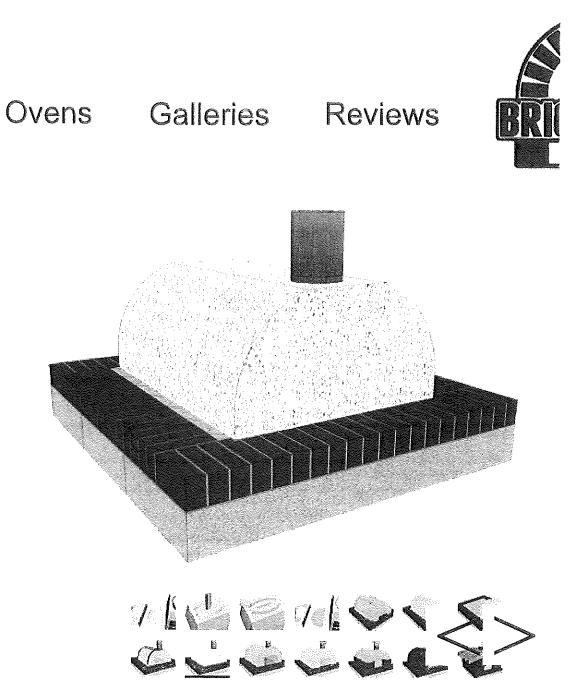
(47 "x 56" Con Aislamiento Instrucciones de Base)











Oven Model CORTILE BARILE Interior Depth / Width / Height 31" / 27" / 14" Exterior Depth / Width / Height 37.5" / 33" / 17" Cooking Surface Area 840 Sq Inches Oven Type Castable Refractory Average PPH (Pizzas Per Hour) 30-35 Oven Temperature 1000+ Avg Time to Build Base (1 person) 18 Hours (combined) Avg Time to Build Oven (1 person) 20 Hours (combined) Average Cost to Build Base \$400 Avg Cost to Build Finished Oven \$1300 (including BrickWood Ovens Foam Mold)

Cortile Barile Installation Instructions
Our highly detailed, yet easy to follow Installation
Instructions with Materials Lists can help anyone build an
amazing wood-fired oven with an easy to attach ceramic
fiber blanket.

Oven Instructions Step 1 of 3 Base Instructions Step 2 of 3 Oven Instructions Step 3 of 3

Cortile Bar

While there are many comost important part - the molds & 9lbs of stainless

You'll still need to purchas Fiber Blanket to build this But you can get them fron

> Cortile Barile Fo 9lbs of Stainless FREE FedEx Gro Item: CORTILE

ortile Bai

is package will ge ing it! You will rec raTech Stainless ramic Fiber Blanke

sturdy package for oking accessory s rchased at another

le Barile Foam M of Stainless Ste

- DuraTech Exhaust Ki (Anchor Plate, Chimney)
- 1 Box (50sf) of 6lb Co
- Multi-Item Discount -
- FREE FedEx Ground
- Item: COR1-MEB

ortile Ba

erything you nee n't even think for ur house every tim

is kit has everythi ods quickly and evality door are exce e breads, pies, cas

- Cortile Barile Foam I
- 9lbs of Stainless Ste
- DuraTech Exhaust K

- 1 Box (50sf) of 6lb C
- Heavy Duty Metal Do
- 3 Piece Accessory K
- Multi-Item Discount ·
- FREE FedEx Ground
- « Item: COR2-3MEBD

Cortile Ba

Every-so-often we g they just want eve delivered. They want hardware store.. but delivered.

We listened to your : Kahuna! Package 3!!

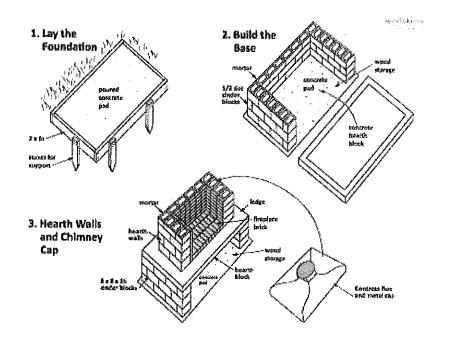
This package contai amazing wood fired b trying to source refrac

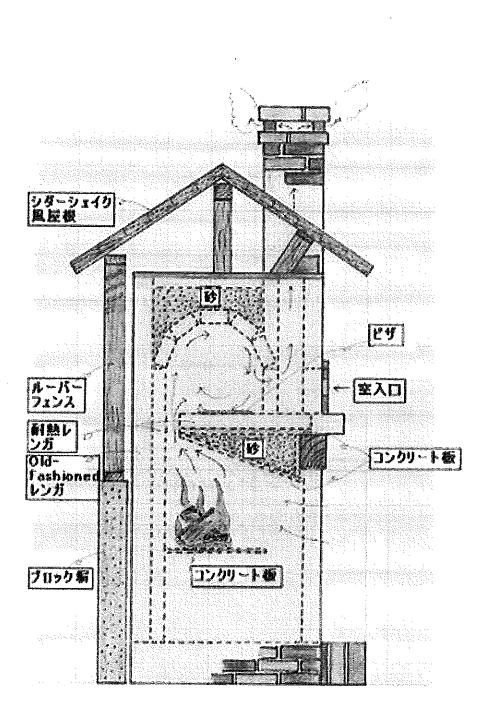
> le Barile Foam M of Stainless Ste

- uuraTech Exhaust Ki
- e 1 Box (50sf) of 6lb Co
- e :Wood Ovens M
- ce Accessory K
- e 480lbs Castable Refr
- 20bs High-Temperatu
- 45 Tan Firebrick 9"
- FREE FedEx & Freigl
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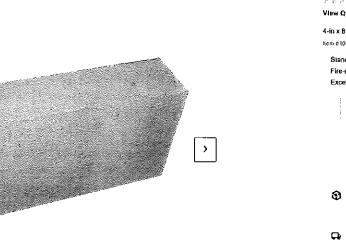


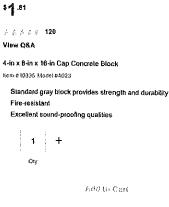
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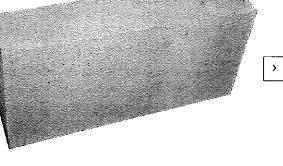
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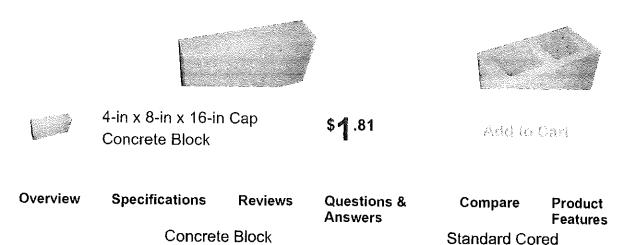
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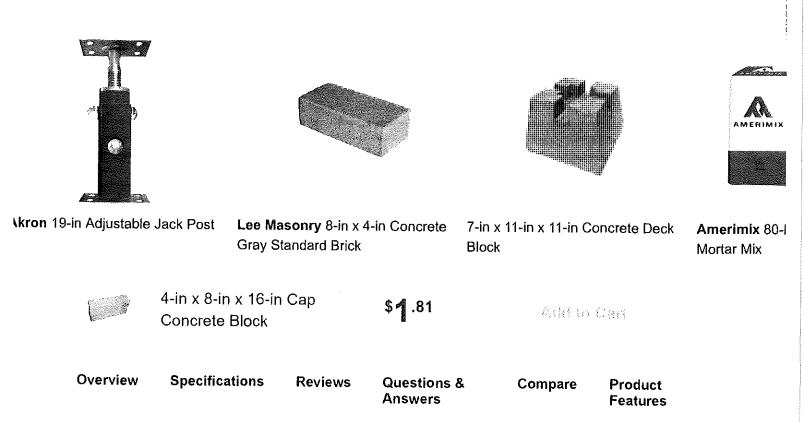
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Ratings		★★★★ ★
уре	Сар	Standard
Block Weight	Normal weight	Normal weight
Color/Finish Family	Gray	Gray
Cored	8	
Series Name	N/A	N/A
4		

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