Martin Enterprises

"Your Underground Enclosure Experts"



Underwriters Laboratories Listed Products



Manufacturing Facilities in California and Texas



QuEST Forum/TL9000
ISO 9001:2008 Registered

PERRY JOHNSON REGISTRARS, INC.

ANAB ACCREDITED

www.martinfrp.com

Martin Enterprises

Respected Recipients,

Martin Enterprises was established in 1999. Initial product offerings included EMS locators and underground enclosure hardware. It was shortly after our inception that we identified the need for a new standard of product quality and service in the underground utility enclosure industry. Martin Enterprises product line has evolved with this standard to include a complete line of underground utility enclosures.

Martin Enterprises manufactures underground utility enclosures utilizing both fiberglass reinforced polymer and polymer concrete technologies. We employ an extensive quality control criteria insuring that all of the applicable performance standards are adhered to during every step of the manufacturing process. Superior product quality and service are the cornerstones of our Organization as we have embraced the ideologies of and are now an ISO 9001:2008 Registered Firm (Certificate No. C2014-02088), QuEST Forum's TL9000 (TL ID 6775) Registered Firm that provides UL Listed Products (File E351227).

Martin Enterprises feels very strongly in its support of enterprises that embrace the "Buy American" philosophy. All our products are manufactured domestically in our facilities in Nuevo, California and Dallas, Texas which ensures compliance with the "Buy American" requirement as listed by the United States Department of Agriculture Rural Development.

Thank you for considering Martin Enterprises products for your project, as we look forward to showing your team the benefits of a relationship with Martin Enterprises.

Respectfully Submitted,



Stephen J. Kavousy
Quality Control / Technical Manager
Martin Enterprises
"Your Underground Enclosure Experts"

QuEST's TL9000 Quality Management System

Background:

QuEST's TL9000 Quality Management System was designed specifically for the Information and Communication Technologies (ICT) industry by its various members:

- ANSI/ASQ National Accreditation Board (ANAB)
- Alcatel-Lucent Technologies
- AT&T
- Cisco
- Ericcson
- Motorola
- Telcordia Technologies
- Verizon

TL 9000 is the telecommunication industry's unique extension to ISO 9001:2008 standards, as its purpose is to define quality system requirements specifically for the telecommunications industry.

Defining Quality System Requirements allowed for the establishment of a consistent and continuous set of quality expectations that are monitored continuously, allowing for measurement performance data to be collected on every item manufactured.

- Work Instructions
- Pre/In-process/Post Production
- Incoming Raw Material Analyses

TL900 is requires certified organizations to collect and submit auditable data to the University of Texas, which allows Quest Forum to provide benchmarking data that aids organization as they continually strive to be the best in class:

- Customer Focus & Care
- Product Realization / Manufacturing
- Quality Planning
- Measurements, Analysis, & Improvement

Martin Enterprises has adopted these quality expectations, and established rigorous Quality Management System that monitors every step of the product realization process. Various quality control measurements, work instructions, and forms have been established to ensure that every item produced adheres to quality expectations.

PERRY JOHNSON REGISTRARS, INC.

Certificate of Registration

Perry Johnson Registrars, Inc., has audited the Quality Management System of:

Martin Enterprises
19940 Hanson Avenue, Nuevo, CA 92567 United States

(Hereinafter called the Organization) and hereby declares that Organization is in conformance with:

ISO 9001:2008 with TL 9000 Release 5.0 Including TL 9000 QMS Measurements Handbook Release 5.0

This Registration is in respect to the following scope:

Production of Underground Fiberglass and Polymer Concrete Utility Enclosures for the Utility and Telecommunications Industry TL 9000 H (3.1.2.1 Enclosures)

This Registration is granted subject to the system rules governing the Registration referred to above, and the Organization hereby covenants with the Assessment body duty to observe and comply with the said rules.

PERRY JOHNSON REGISTRARS, INC.

ANAB ACCREDITED

Terry Boboige

Terry Boboige, President

Perry Johnson Registrars, Inc. (PJR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48084
(248) 358-3388

The validity of this certificate is dependent upon ongoing surveillance.

Effective Date:	Expiration Date:	Certificate No.:
August 24, 2014	August 23, 2017	C2014-02088

CERTIFICATE OF COMPLIANCE

Certificate Number	20140925-E351227
Report Reference	E351227-20140924
Issue Date	2014-SEPTEMBER-25

Issued to: MARTIN ENTERPRISES
Suite 262
7231 Boulder Ave
Highland CA 92346

This is to certify that representative samples of BOXES, ENCLOSURES, HANDHOLES AND VAULTS, UNDERGROUND, UTILITY SPECIFICATION
See Addendum

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/SCTE 77 2010, Specification for Underground Enclosure Integrity
ANSI/UL 746A, Polymeric Materials - Short Term Property Evaluations

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle: (UL) with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus

CERTIFICATE OF COMPLIANCE

Certificate Number	20140925-E351227
Report Reference	E351227-20140924
Issue Date	2014-SEPTEMBER-25

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

"Vault Series",
1324, followed by PC, followed by /12, /18, or /24.
1730, followed by PC, followed by /12, /18, /22, /24, or /30.
2436, followed by PC, followed by /12, /18, /24, /30, /36, or /48.
3048, followed by PC, followed by /18, /24, /30, /36, or /48.
3060, followed by PC, followed by /30 or /36.
3248, followed by PC, followed by /48.
3660, followed by PC, followed by /18, /24, or /36.
4848, followed by PC, followed by /24, /36, or /48.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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Martin Enterprises

Warranty

Martin Enterprises warrants for a period of one year from date of shipment of said product.

Martin Enterprises shall accept a written return request, without exception, for products purchase that do not conform to quality standards and specification requirements as forth in the Purchase Order. Martin Enterprises will assume the cost associated with shipping the returned product back to the factory.

Martin Enterprises manufactures Ground Level Utility Enclosures that are designed to meet The Society of Cable Telecommunications Engineers ANSI/SCTE 77 Specification for Underground Enclosure Integrity. Martin Enterprises represents and warrants that all products shall be free of defects in material and workmanship, and be sufficient ad fit the purpose intended by the Buyer.

Martin Enterprises enclosures should **NOT** be installed in areas that will expose the product to deliberate or heavy vehicular traffic. Martin Enterprises does not take responsibility for product failure caused by improper installation practices that do not adhere to the ANSI/SCTE 77 Specification.

This warranty will not apply to any products which have been modified outside of the Martin Enterprises facility, and/or have been utilized in in a manner that does not adhere to the abovementioned specification

Martin Enterprises

General Utility Enclosure Installation Guideline

Location

Pedestrian / Greenbelt /Light duty enclosure assembly- SCTE 77 TIER 5 construction.

Vertical Load: Design Load 5,000 lbs. Test Load 7,500 lbs.
Lateral: Design Load 600 lbs. / sq. ft. Test Load 900 lbs. /sq. ft.

Sidewalk / Medium Duty enclosure assembly-SCTE 77 TIER 8 construction.

Vertical Load: Design Load 8,000 lbs. Test Load 12,000 lbs.
Lateral: Design Load 600 lbs. / sq. ft. Test Load 900 lbs. /sq. ft.

Driveway / Heavy Duty enclosure assembly-SCTE 77 Tier 15 construction.

Vertical Load: Design Load 15,000 lbs. Test Load 22,500 lbs.
Lateral: Design Load 800 lbs. /sq. ft. Test Load 1,200 lbs. /sq. ft.

Driveway Heavy Duty enclosure assembly-SCTE 77 Tier 22 construction.

Vertical Load: Design Load 22,500 lbs. Test Load 33,750 lbs.
Lateral: Design Load 800 lbs. /sq. ft. Test Load 1,200 lbs. /sq. ft.

Site Selection

The selection of the utility enclosure should be determined by the live load that the unit will see during the life of the enclosure. The exposure of pedestrian traffic and vehicle traffic should be considered when selecting the enclosure. The cover of the installed enclosure will bear most of the live load. The load on the cover under live loads will be transferred into the ring and down the side wall of the enclosure.

Installation

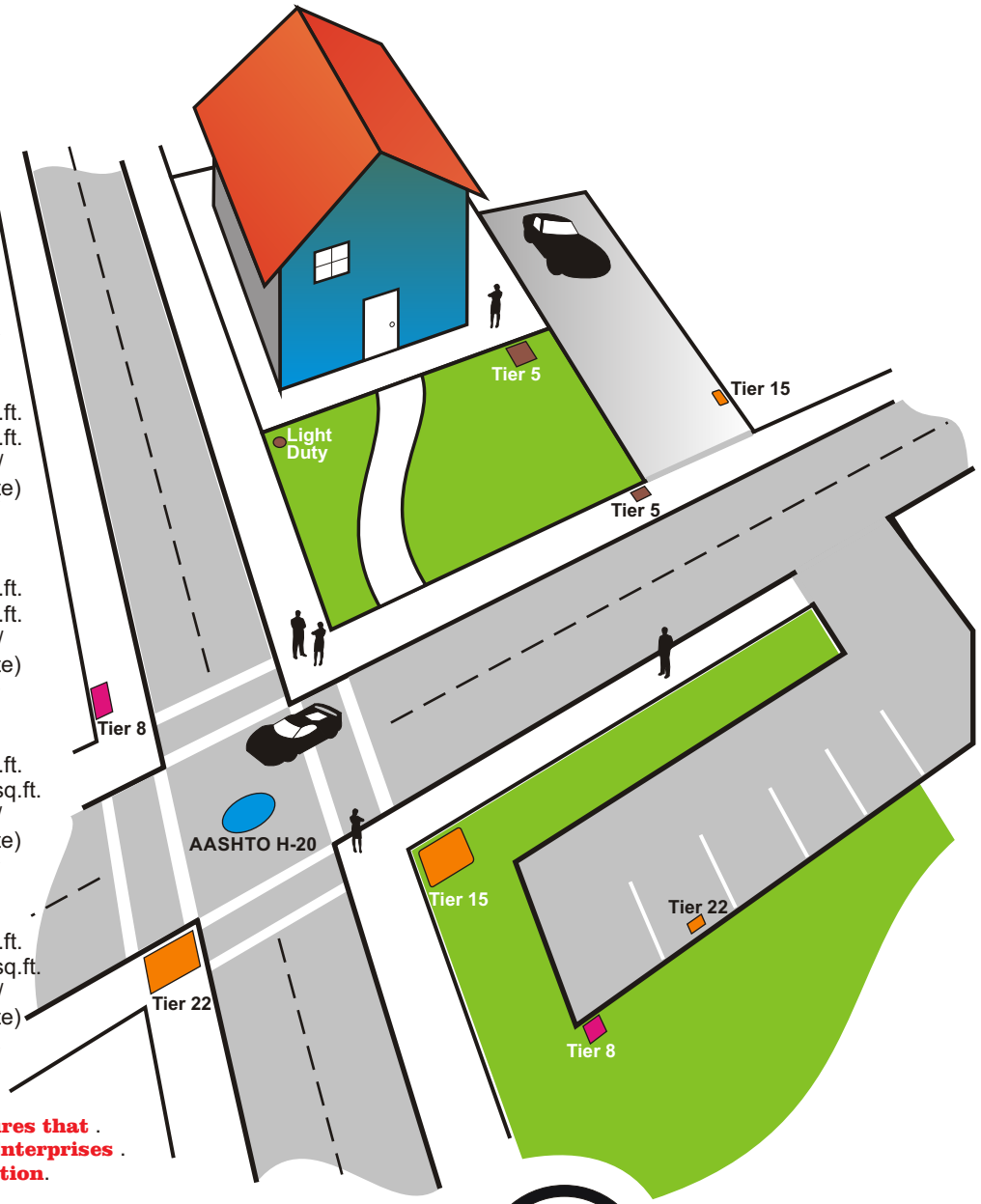
The excavation site should be ten percent larger than the utility enclosure size. The migration of ground water should be considered when selecting the enclosure design. The base of the site should include at least four inches of crushed rock.

The enclosure should be placed in the excavation site with the top ring of the enclosure at grade level. If a backhoe is used during installation, the cover should be installed in the enclosure and the lift pins used for lifting the unit into place. For larger enclosures, lifting wire or lifting bolts are provided in the unit. Backfill material around the enclosure should be free of any foreign material. The dirt should also be free of large rocks or pavement material. Vibration tamping is recommended around the backfill site. Internal sidewall supports are recommended during the backfill process.

Martin Enterprises assumes that proper engineering considerations have been made prior to selecting a utility enclosure. Martin Enterprises does not take responsibility for the installation practices, site selection or selection of the enclosure load rating

General Installation Application Map
ANSI/SCTE-77 2013 Specification

APPLICATION		LOADING REQUIREMENTS		
Light Duty Pedestrian Traffic Only	**Vertical**	Test Load	13.3kN	3,000 pounds
TIER 5 Sidewalk applications with a safety factor for occasional non-deliberate vehicular traffic.	**Vertical**	Design Load	22.2kN	5,000 pounds
		Test Load	33.3kN	7,500 pounds
	Lateral	Design Load	28.7kPa	600 pounds/sq.ft.
		Test Load	43.1kPa	900 pounds/sq.ft. (1800/2700 lbs/ lateral load plate)
TIER 8 Sidewalk applications with a safety factor for non-deliberate vehicular traffic.	**Vertical**	Design Load	35.6kN	8,000 pounds
		Test Load	53.4kN	12,000 pounds
	Lateral	Design Load	28.7kPa	600 pounds/sq.ft.
		Test Load	43.1kPa	900 pounds/sq.ft. (1800/2700 lbs/ lateral load plate)
TIER 15 Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic	**Vertical**	Design Load	66.7kN	15,000 pounds
		Test Load	100.1kN	22,500 pounds
	Lateral	Design Load	34.3kPa	800 pounds/sq.ft.
		Test Load	57.5kPa	1,200 pounds/sq.ft. (2400/3600 lbs/ lateral load plate)
TIER 22 Driveway, parking lot and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic	**Vertical**	Design Load	100.1kN	22,500 pounds
		Test Load	150.1kN	33,750 pounds
	Lateral	Design Load	38.3kPa	800 pounds/sq.ft.
		Test Load	57.5kPa	1,200 pounds/sq.ft. (2400/3600 lbs/ lateral load plate)
AASHTO H-20 Deliberate vehicular traffic application.	Certified precast concrete, cast iron, or AASHTO-recognized materials. **Martin Enterprises does not manufacture enclosures that adhere to the AASHTO H-20 application. Martin Enterprises enclosures should NOT be utilized for this application.**			



Martin Enterprises manufactures Ground Level Utility Enclosures that are designed to meet SCTE-ANSI 77 Tier 5, 8, 15 and 22 specifications. Martin Enterprises Ground Level Utility Enclosures should NOT be installed in areas that will expose the product to deliberate or heavy vehicular traffic. Martin Enterprises does not take responsibility for product failure caused by Improper installation practices that do not meet industry standards. Certified precast concrete, cast iron or other AASHTO H10-44 or AASHTO H20-44 recognized materials should be used in deliberate or heavy vehicular traffic locations.

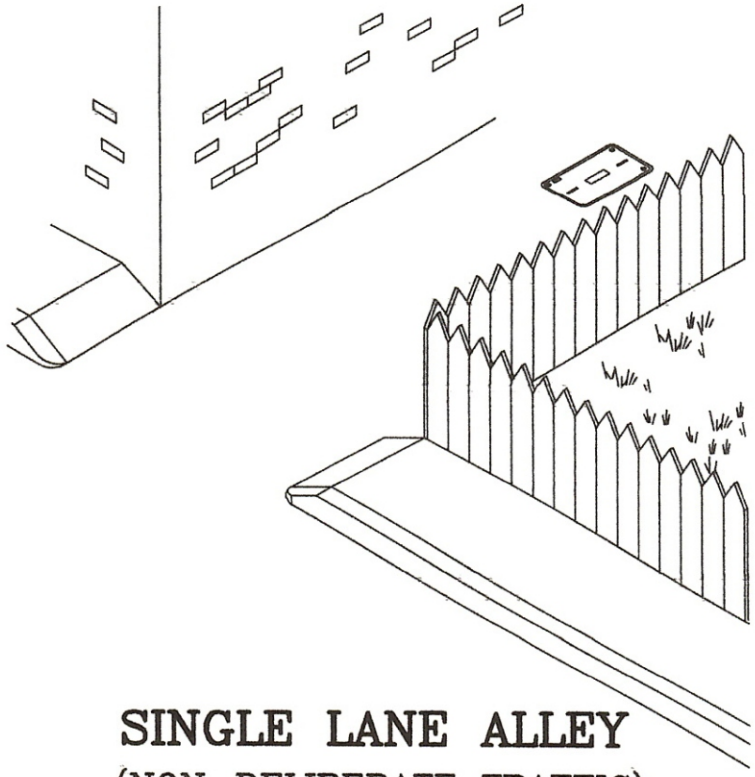
F-723-004

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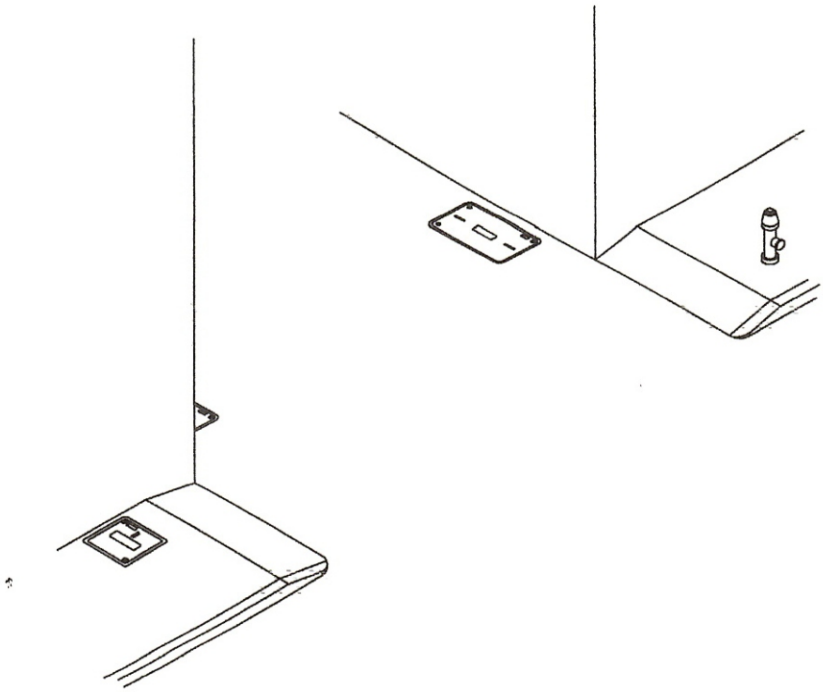
UL Listed Products File# E351227
ISO 9001:2008 Registered Firm
QuEST Forum / TL9000 Registered

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Image courtesy of The Soceity of Cable Telecommunications Engineers ANSI/SCTE 77



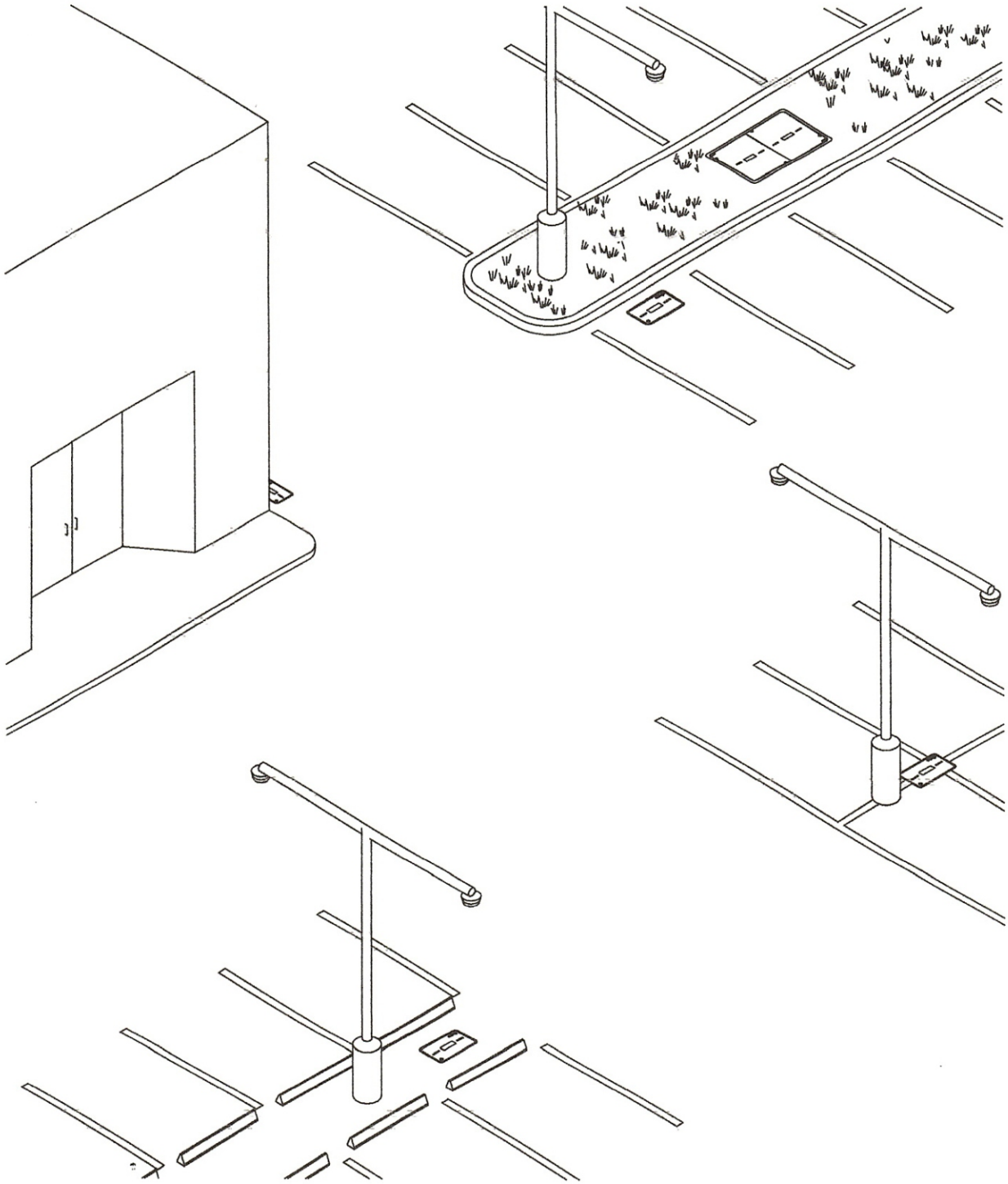
SINGLE LANE ALLEY
(NON–DELIBERATE TRAFFIC)



DUAL LANE ALLEY
(NON–DELIBERATE TRAFFIC)

In a single lane alleyway, the enclosure should be placed in the center of the alleyway. This placement should minimize the possibility of the enclosure being run over. In a dual lane alleyway, the enclosure should be placed as close to the building as possible. Most of the time, two vehicles will not be in the alleyway at same time, so the chances of the enclosure getting run over will be minimal. Knowledge of the location and expected traffic patterns should be used to determine if traffic would be deliberate or non–deliberate as defined above.

Image courtesy of The Soceity of Cable Telecommunications Engineers ANSI/SCTE 77



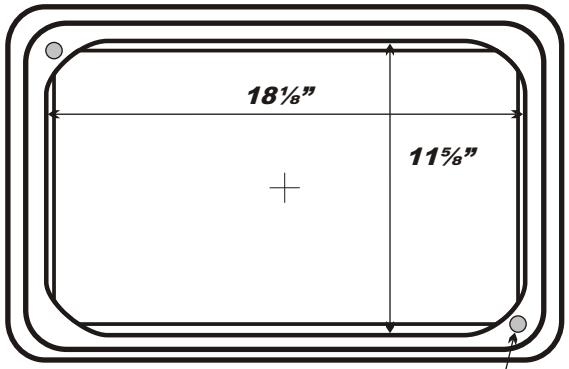
PARKING LOTS
(NON–DELIBERATE TRAFFIC)

Enclosure applications:

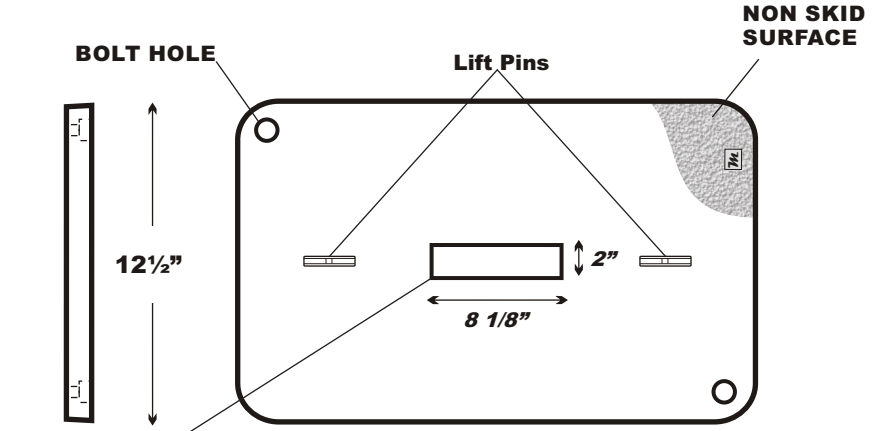
- in the front center of a parking space with the enclosure placed so that the tires of the vehicle will straddle the enclosure.
- in the grassy area where the parking lot ends.
- placed along side and close to the lighting pole
- placed between the parking curbs where the possibility of running over the enclosure is remote. This enclosure could be placed anywhere between the parking curbs.
- along side the building but not in front of a door or pick up area where vehicular traffic would be expected.

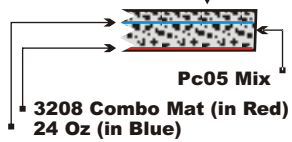
1118 Polymer Concrete Series / Tier 15

TOP VIEW



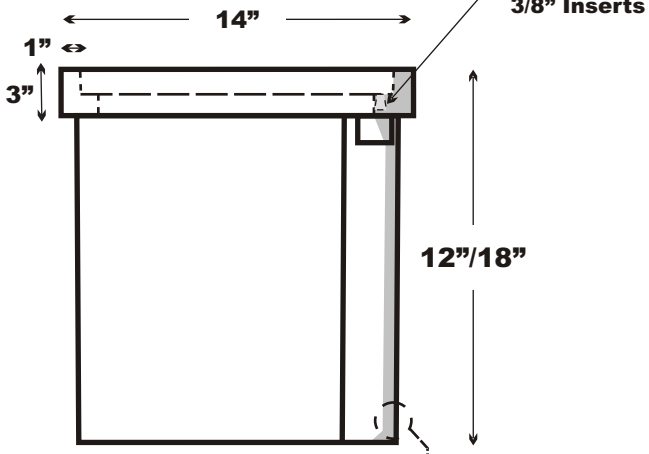
COVER VIEW

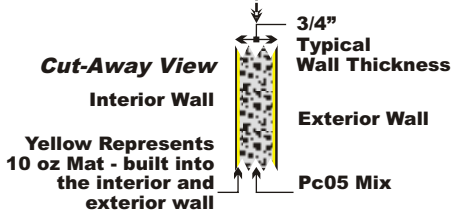




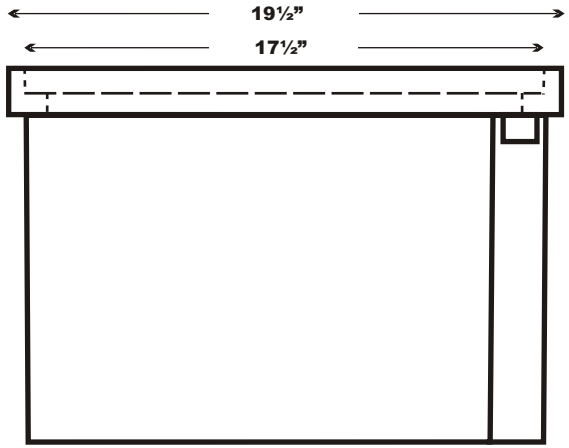
Cut-Away View

END VIEW

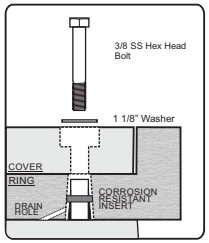




SIDE VIEW



Hardware Detail



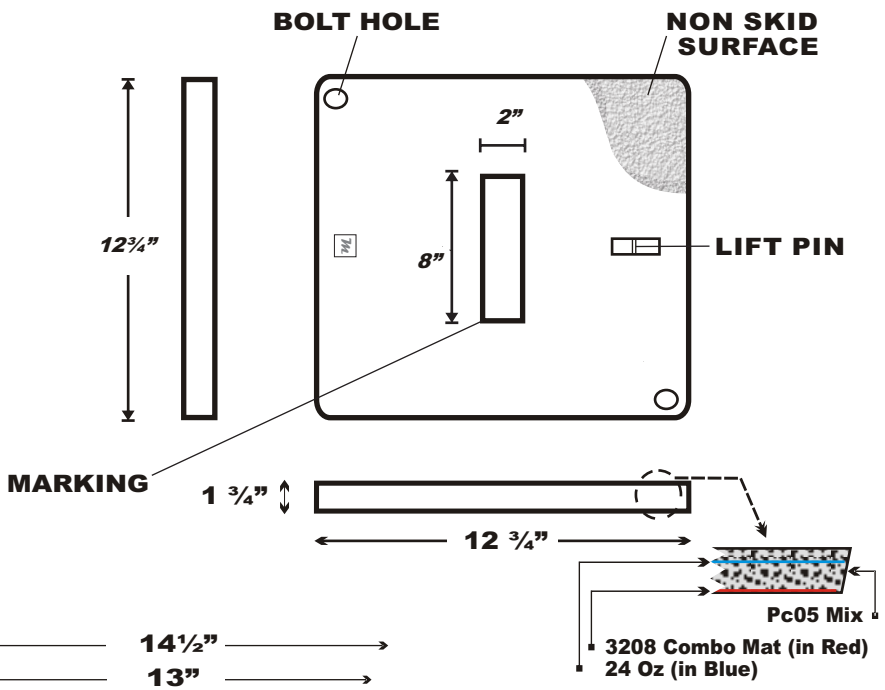
Part No. 1118 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 50-60 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 1118 PC Series**	**Tier 15 Rated**

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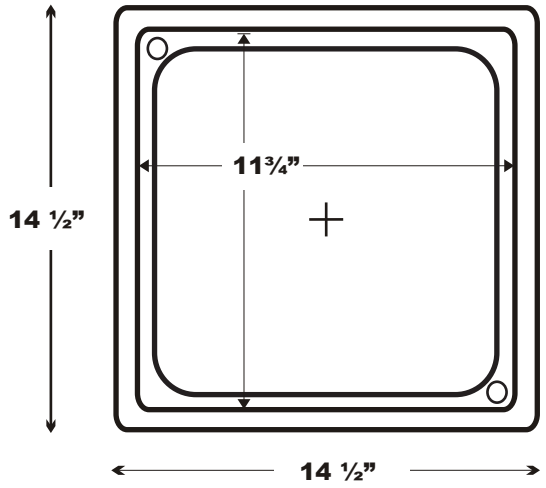
1212/12 Polymer Concrete / Tier 15

COVER VIEW

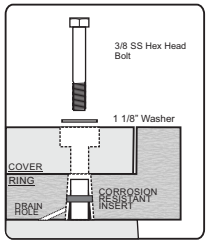


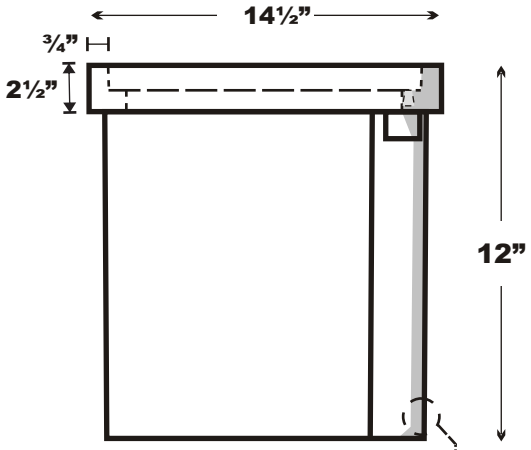
Cut-Away View

TOP VIEW

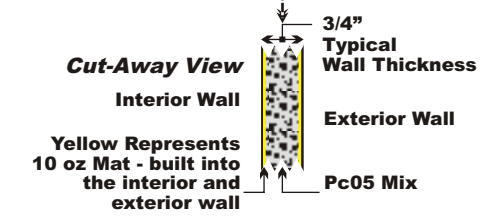


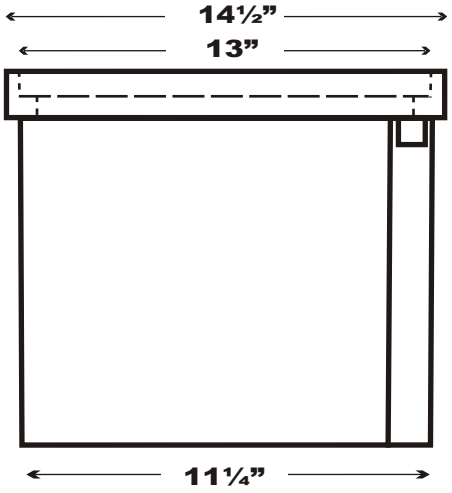
Hardware Detail





END VIEW





SIDE VIEW

Part No. 1212/12 Polymer Concrete		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 551bs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 1212/12 PC**	**Tier 15 Rated**

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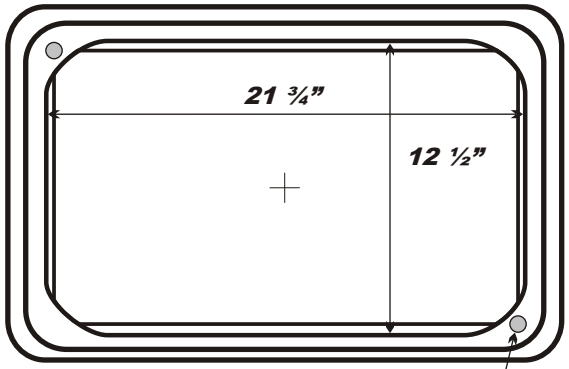
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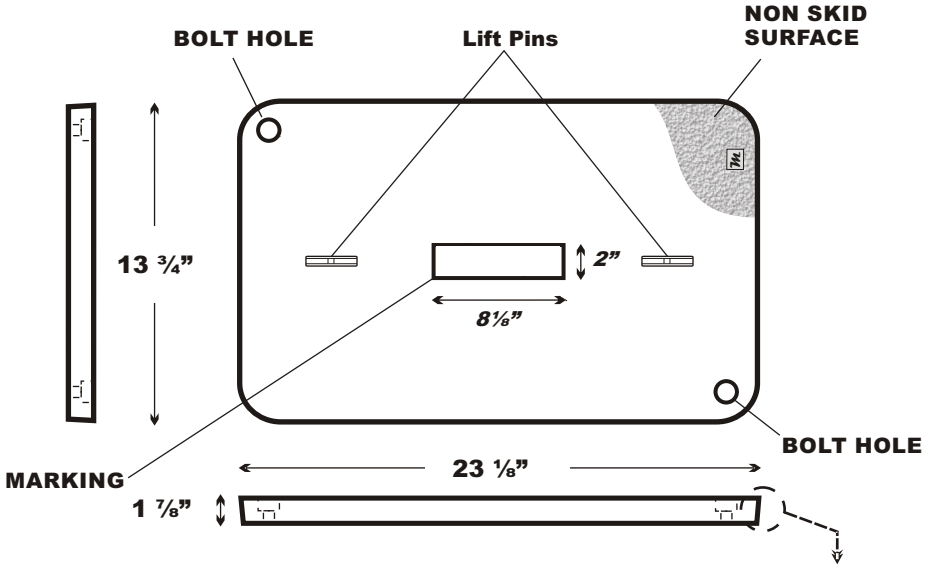
1324 Polymer Concrete Series / Tier 15 & 22

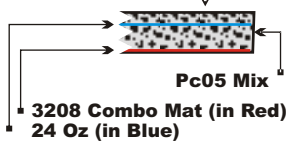
Listed Product

TOP VIEW



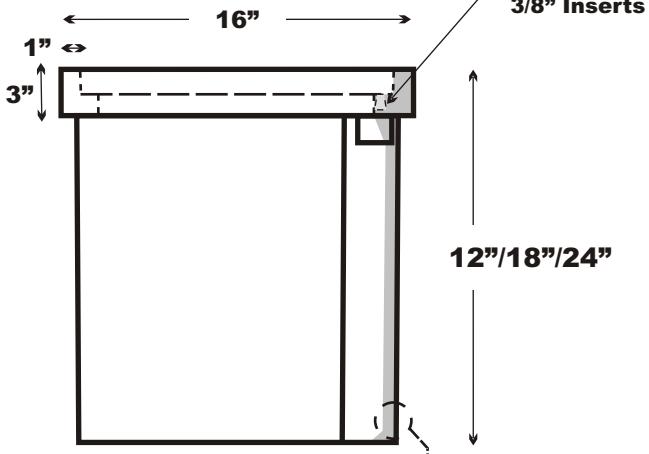
COVER VIEW

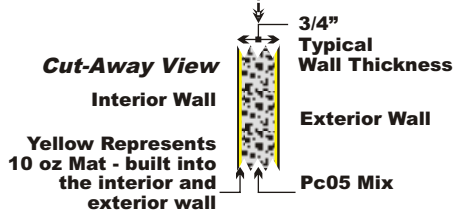




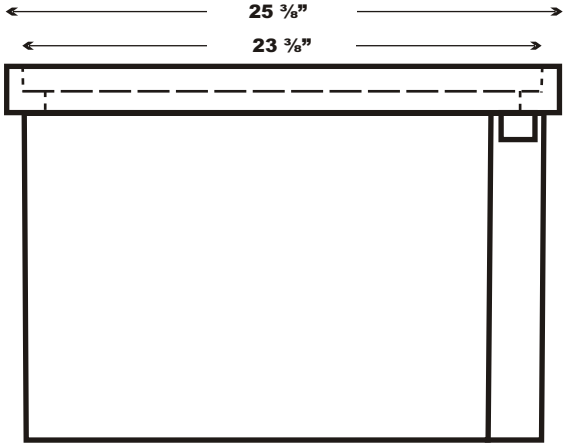
Cut-Away View

END VIEW

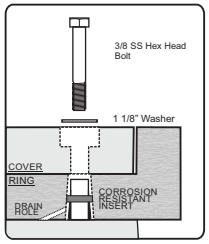




SIDE VIEW



Hardware Detail



Part No. 1324 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 95-130 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 1324 PC Series**	**Tier 15/22 Rated**

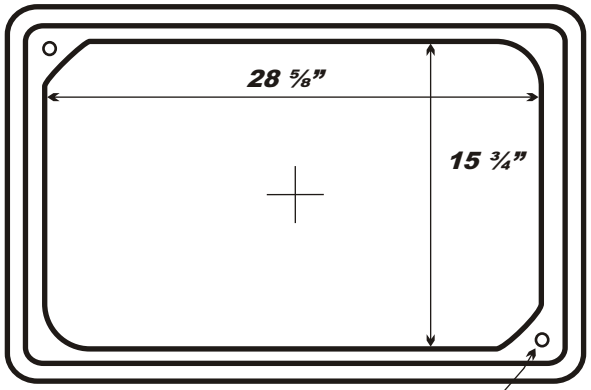
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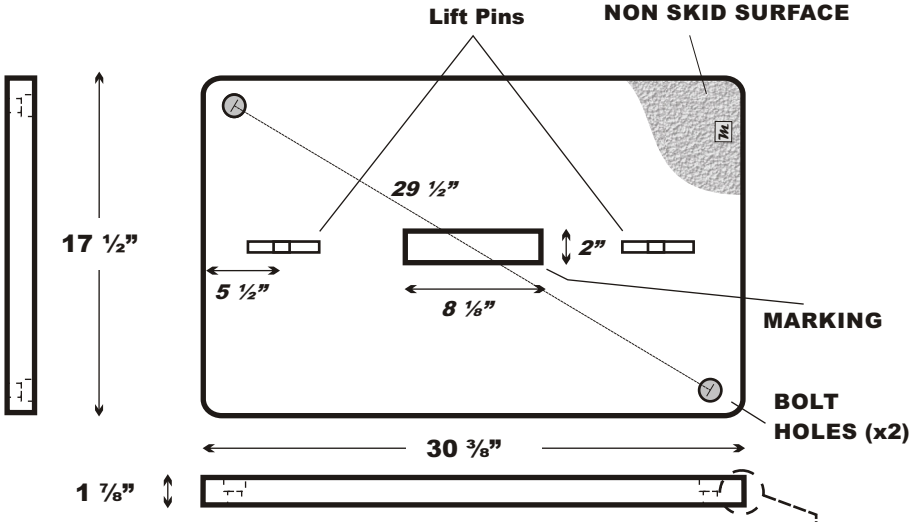
1730 Polymer Concrete Series / Tier 15 & 22

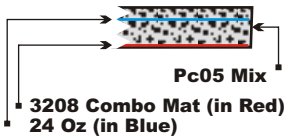
Listed Product

TOP VIEW



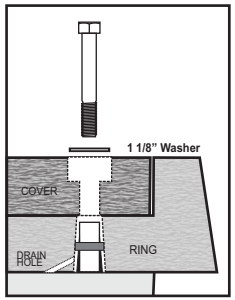
COVER VIEW

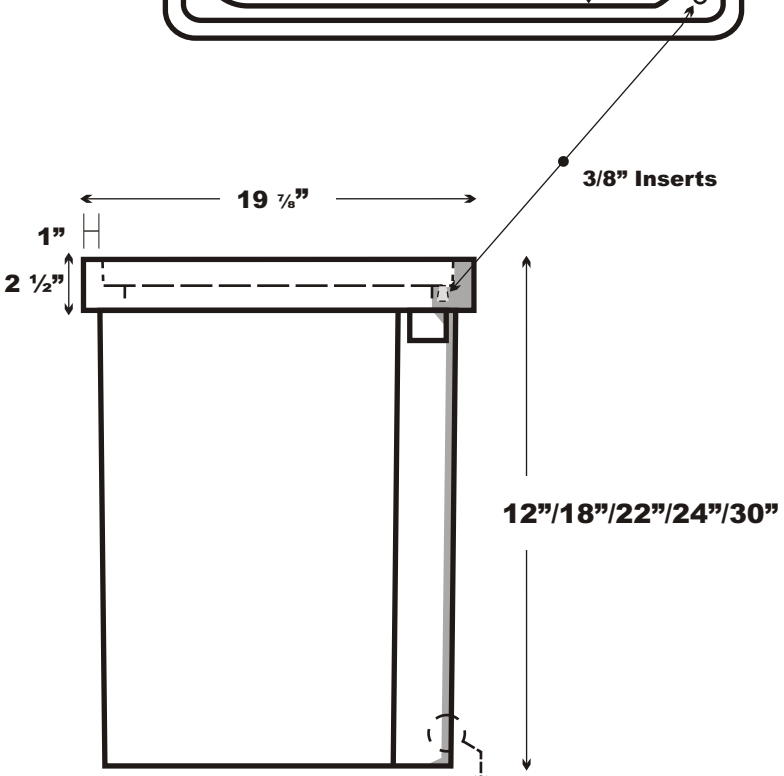




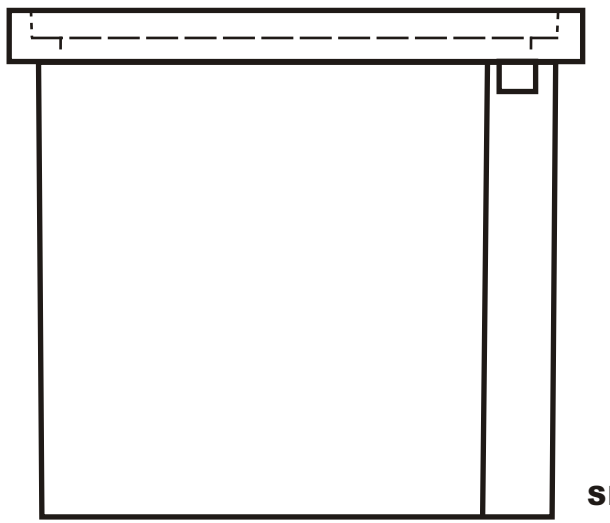
Cut-Away View

Hardware Detail





END VIEW



SIDE VIEW

Cut-Away View

Interior Wall

Yellow Represents 10 oz Mat - built into the interior and exterior wall



3/4” Typical Wall Thickness

Exterior Wall

Pc05 Mix

Part No. 1730 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 145-195 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 1730 PC Series**	**Tier 15/22 Rated**

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UL Listed Product File# E351227

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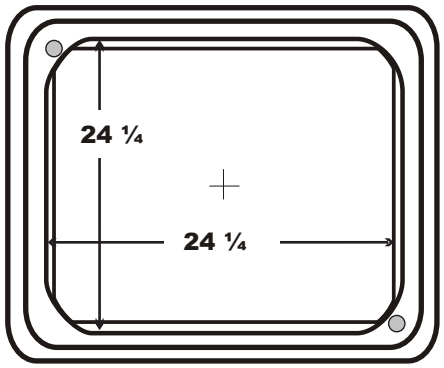
QuEST Forum / TL9000 Registered

FERRY JOHNSON REGISTRARS, INC.

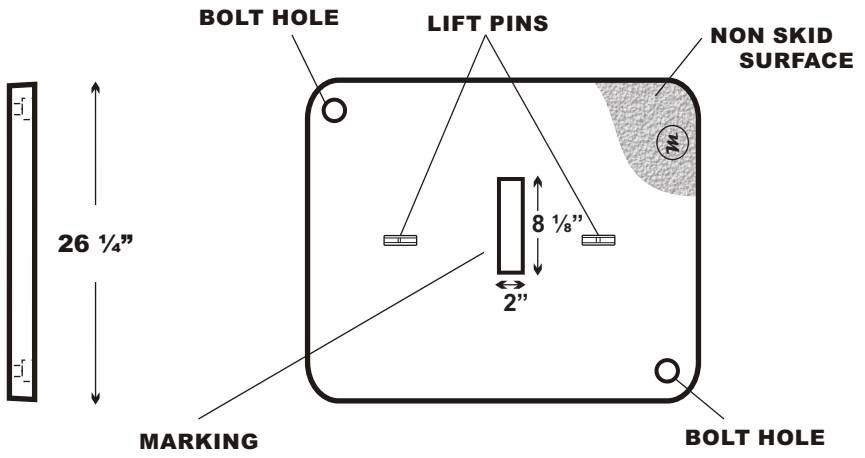
www.martinfrp.com

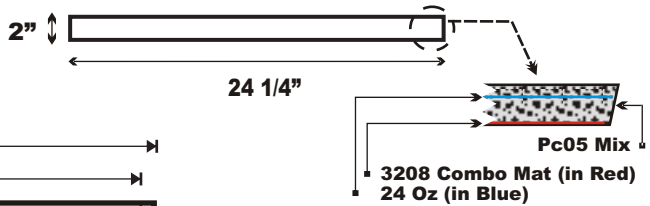
2424/24 Polymer Concrete / Tier 15

TOP VIEW

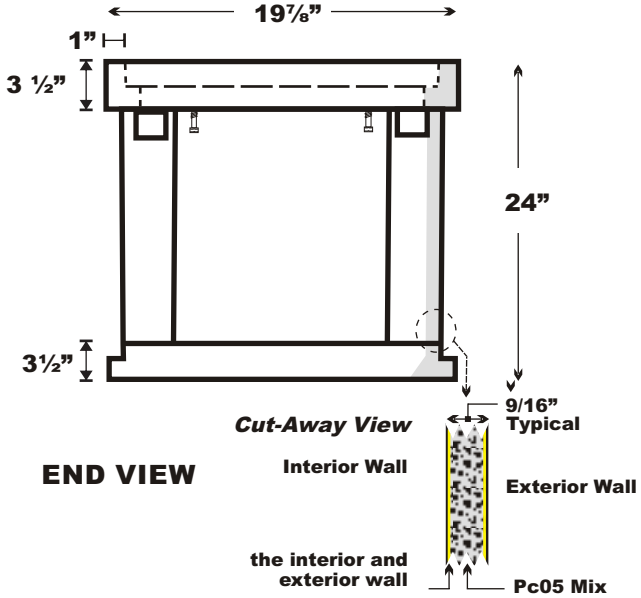


COVER VIEW



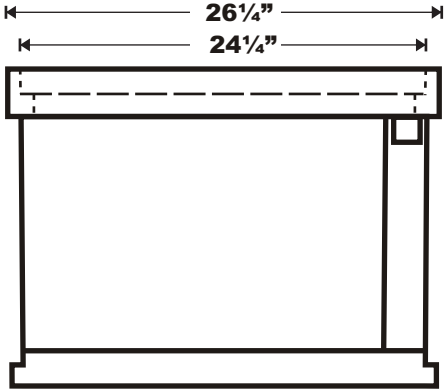


Cut-Away View



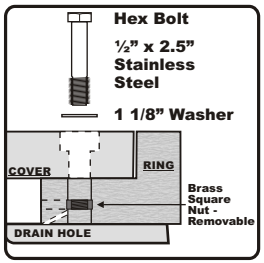
Cut-Away View

END VIEW



SIDE VIEW

Hardware Detail



Part No. 2424/24 Polymer Concrete		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 220 lbs.	**Tolerance +/- 1/8"**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 2424/24 PC**	**Tier 15 Rated**

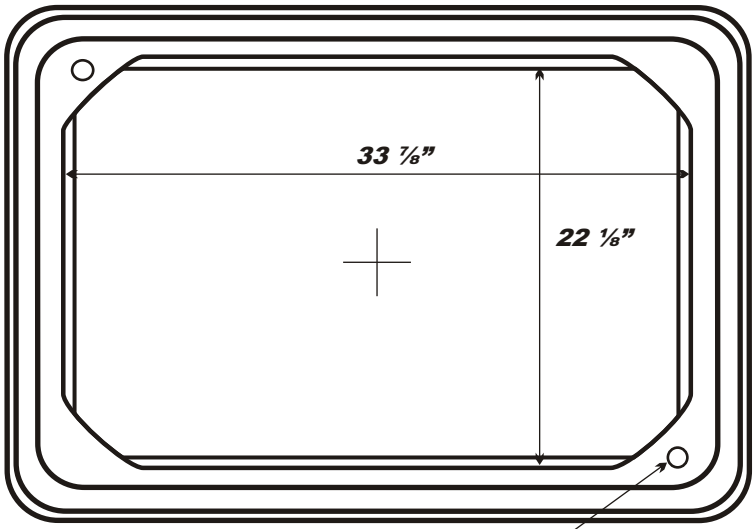
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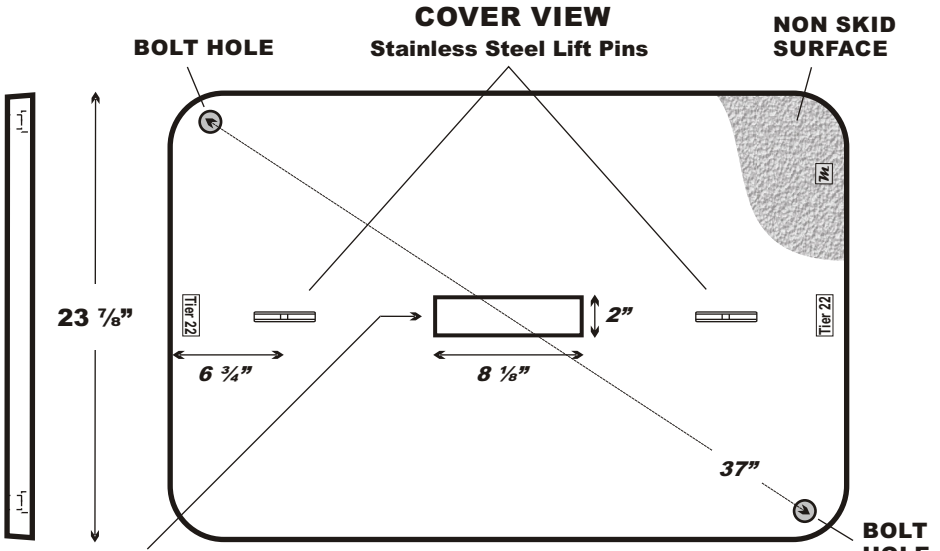
2436 Polymer Concrete Series / Tier 15 & 22

Listed Product

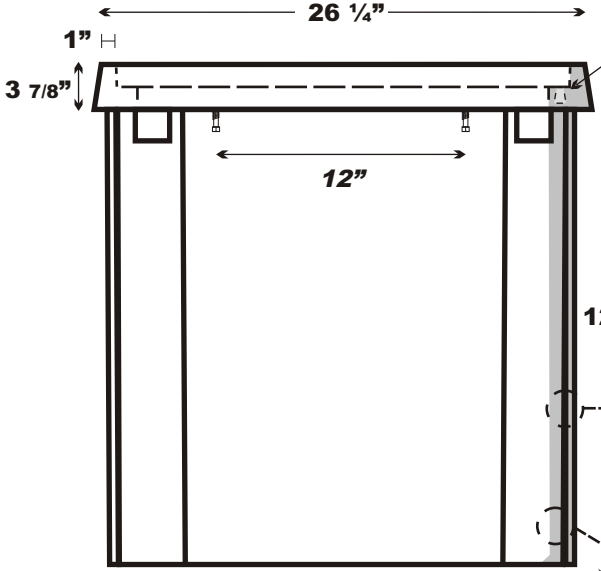
TOP VIEW



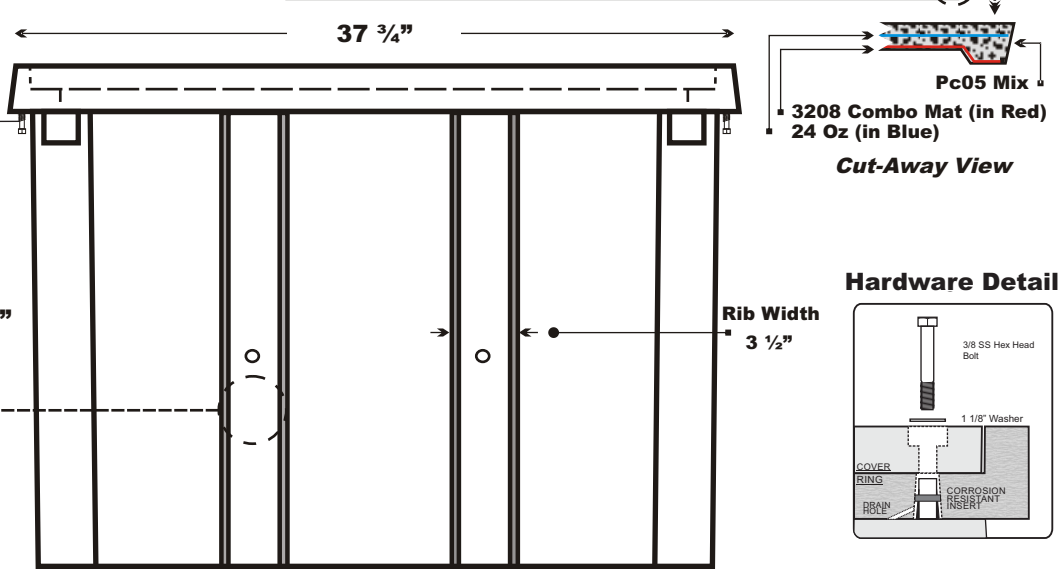
COVER VIEW



END VIEW



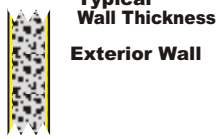
SIDE VIEW



Cut-Away View

Hardware Detail

Cut-Away View



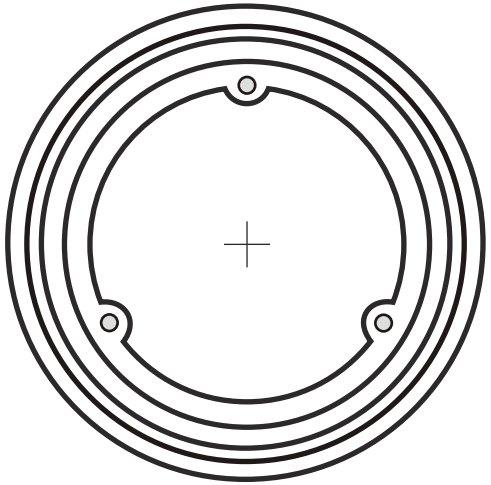
Part No. 2436 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 260-425 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 2436 PC Series**	**Tier 15/22 Rated**

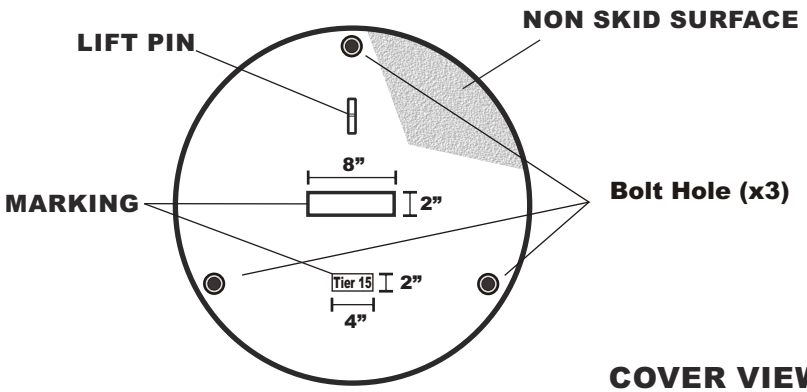
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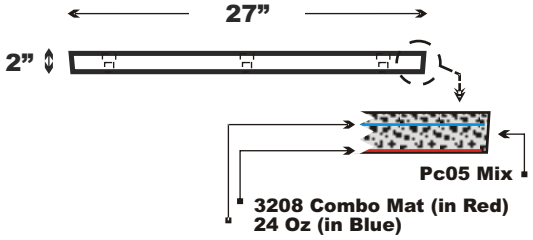
2700/36 Polymer Concrete / Tier 15

TOP VIEW

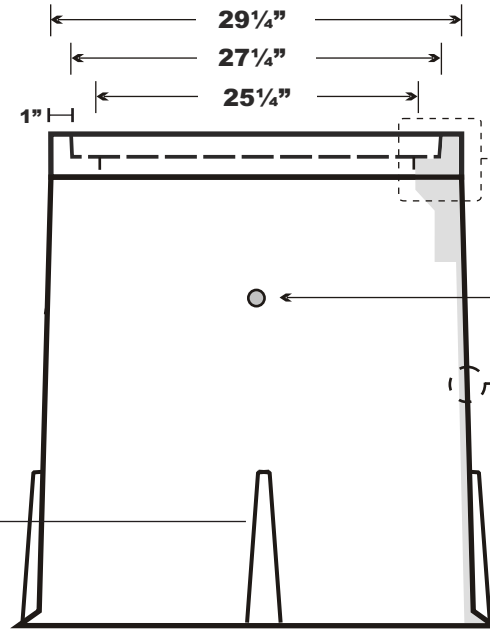




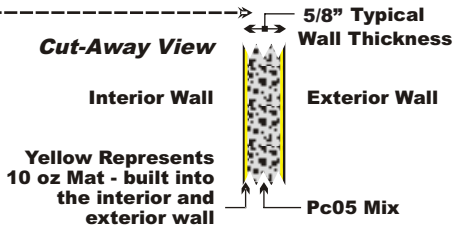
COVER VIEW



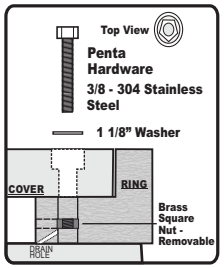
Cut-Away View



SIDE VIEW



Hardware Detail



Part No. 2700/36 Polymer Concrete		
Body: Polymer Concrete	Cover: Polymer Concrete	
Weight 435lbs.	Tolerance +/- 1/8”	ANSI/SCTE 77 2013
October 21, 2014	File 2700/36PC	Tier 15 Rated

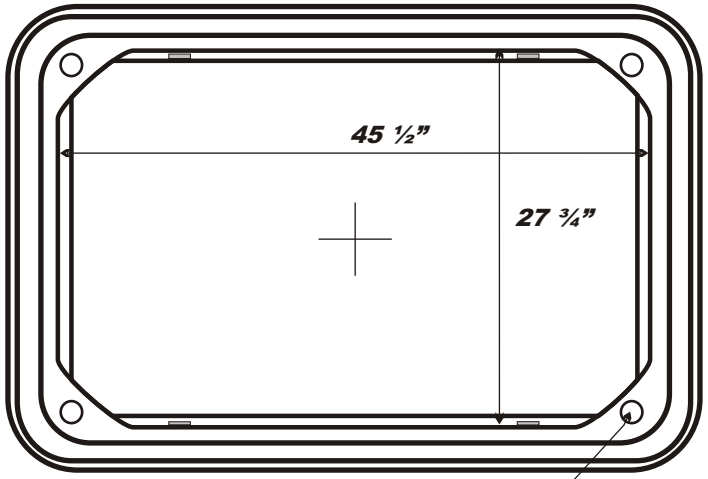
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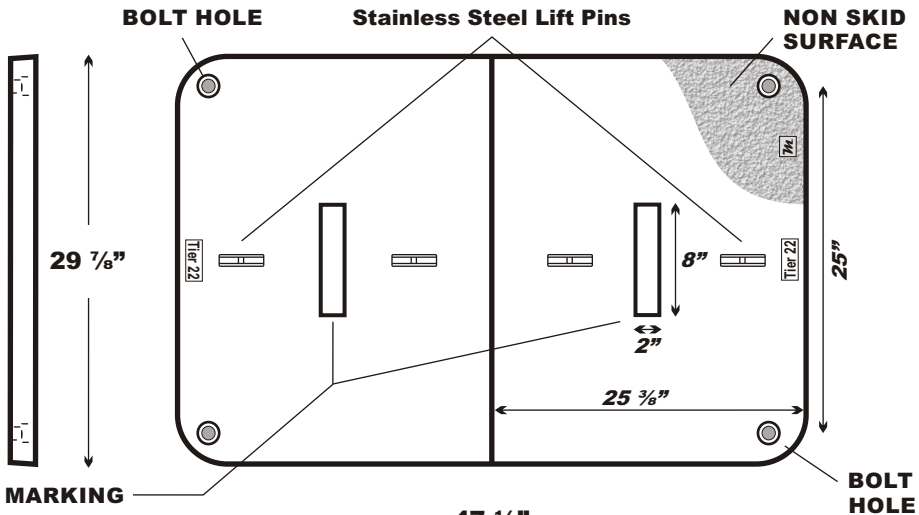
3048 Polymer Concrete Series / Tier 15 & 22

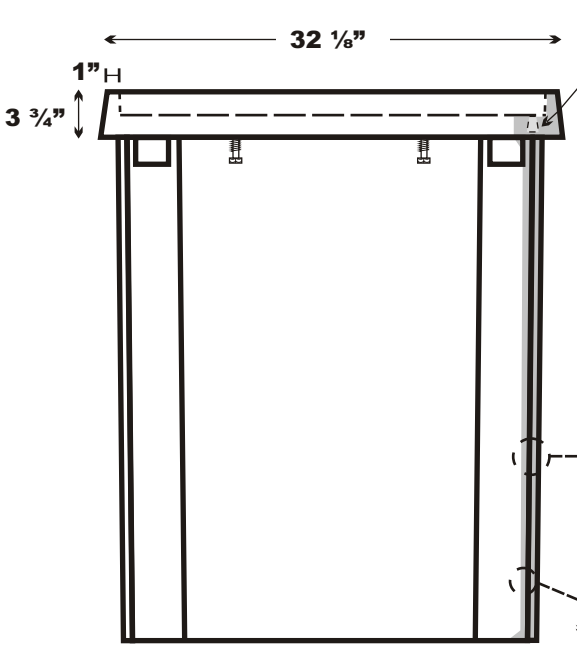
Listed Product

TOP VIEW

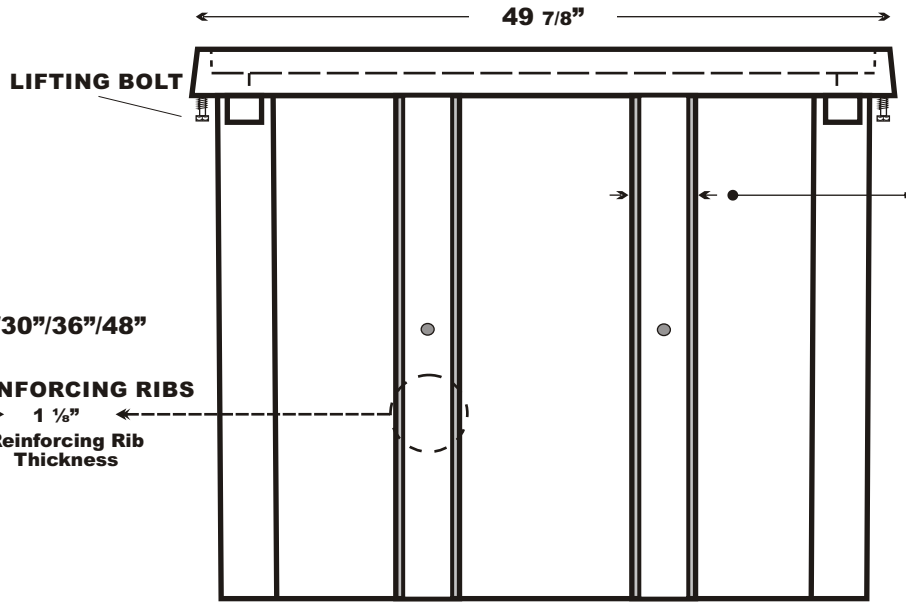


COVER VIEW

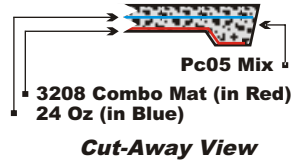




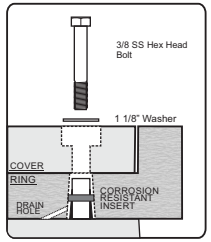
END VIEW



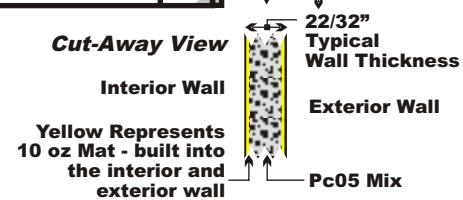
SIDE VIEW



Cut-Away View



Hardware Detail



Cut-Away View

Part No. 3048 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 430-725 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 3048 PC Series**	**Tier 15/22 Rated**

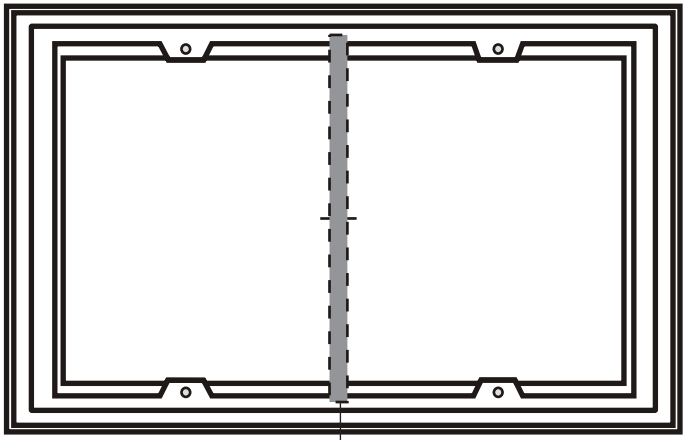
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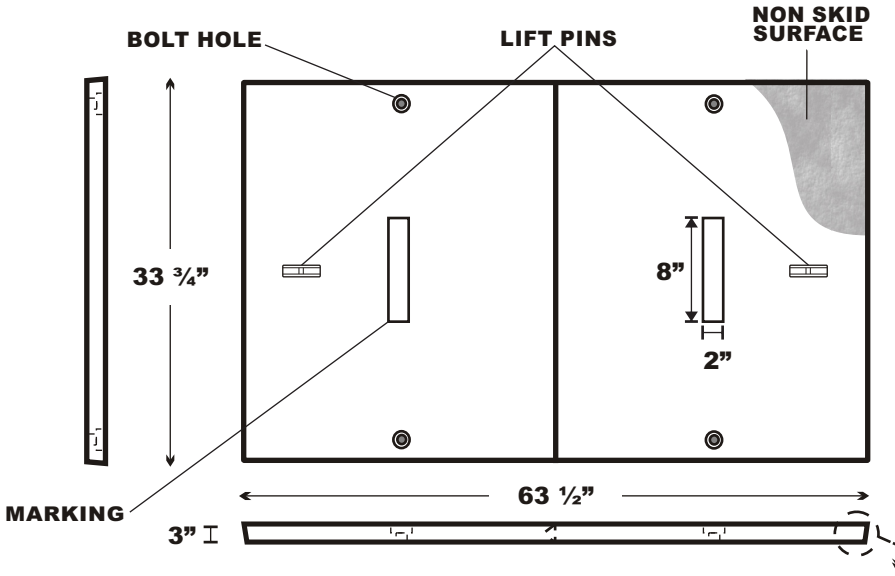
3060 Polymer Concrete Series / Tier 15 & 22

Listed Product

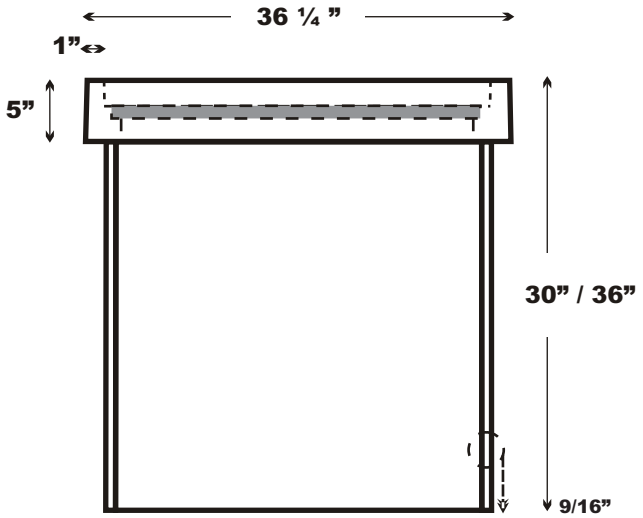
TOP VIEW



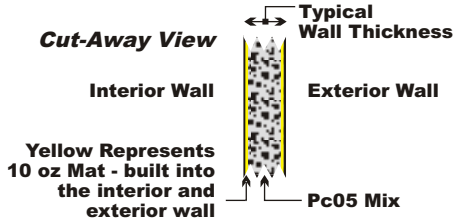
COVER VIEW



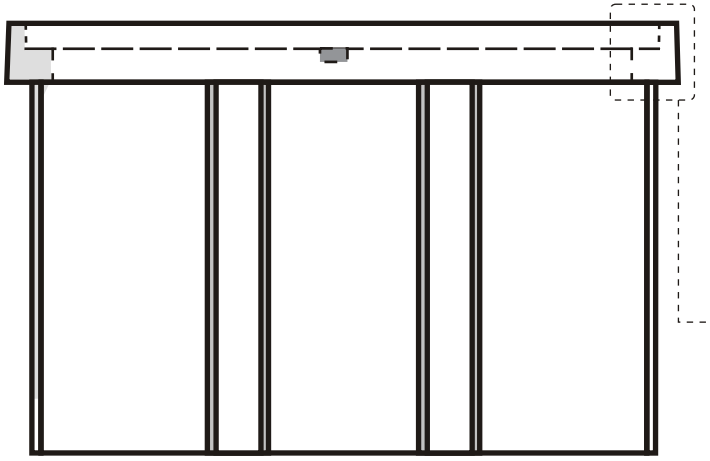
END VIEW



Cut-Away View

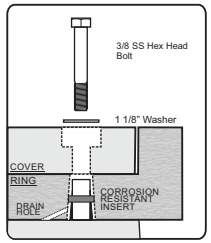


Cut-Away View



SIDE VIEW

Hardware Detail



Part No. 3060 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight : Varies	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 3060 PC Series**	**Tier 15/22 Rated**

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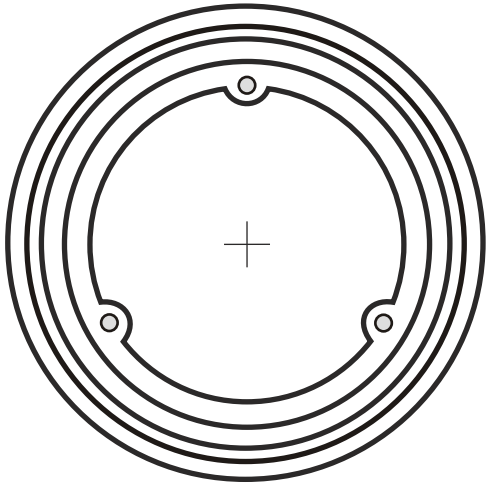
QuEST Forum / TL9000 Registered

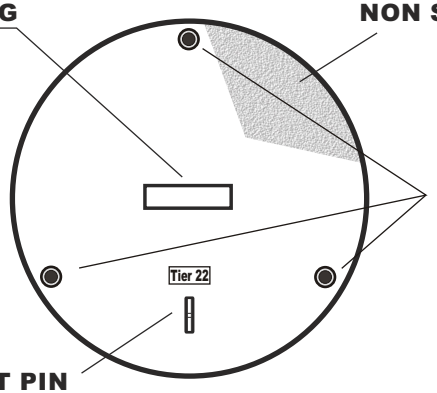
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3248 Polymer Concrete / Tier 15

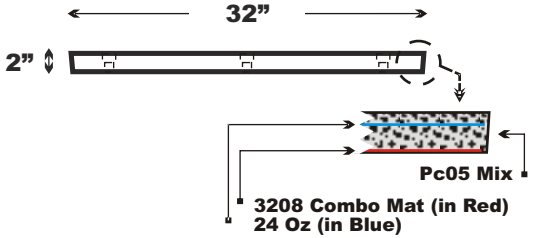
Listed Product

TOP VIEW

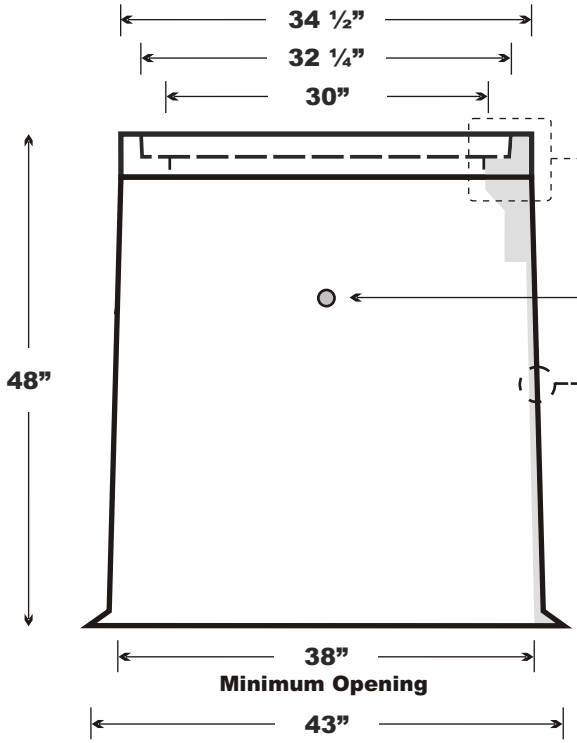




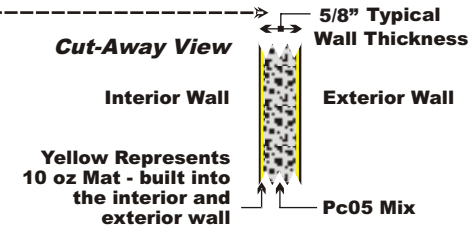
COVER VIEW



Cut-Away View

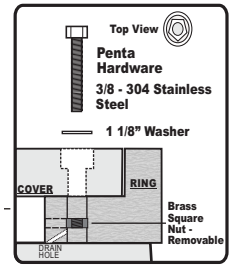


SIDE VIEW



Cut-Away View

Hardware Detail

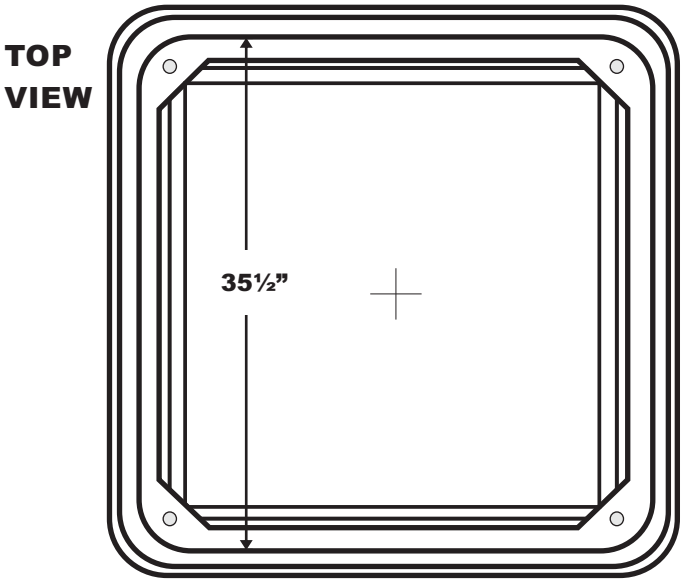


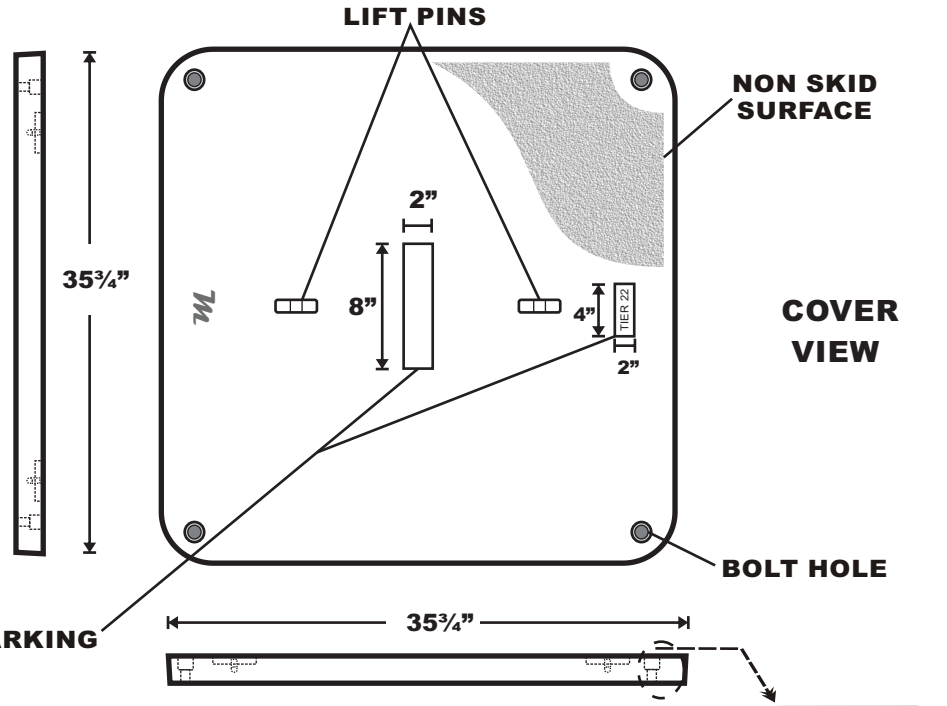
Part No. 3248/48 Polymer Concrete		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 400 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 3248/48 PC**	**Tier 15 Rated**

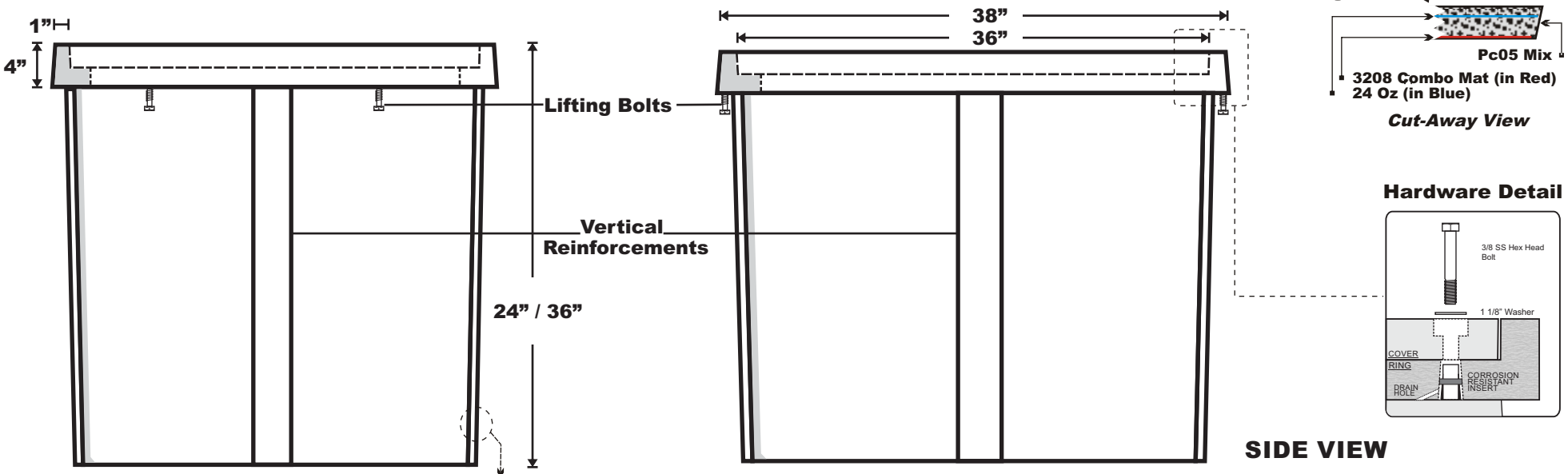
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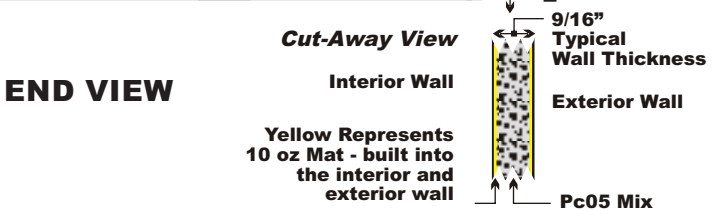
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3636 Polymer Concrete Series / Tier 15 & 22









Part No. 3636 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 560-600lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File: 3636 PC Series**	**Tier 15/22 Rated**

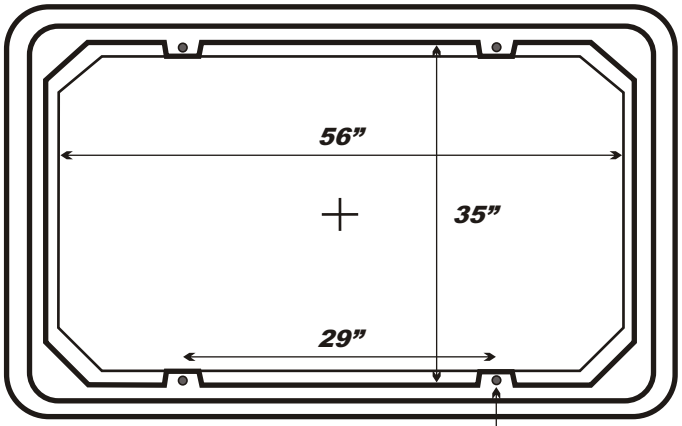
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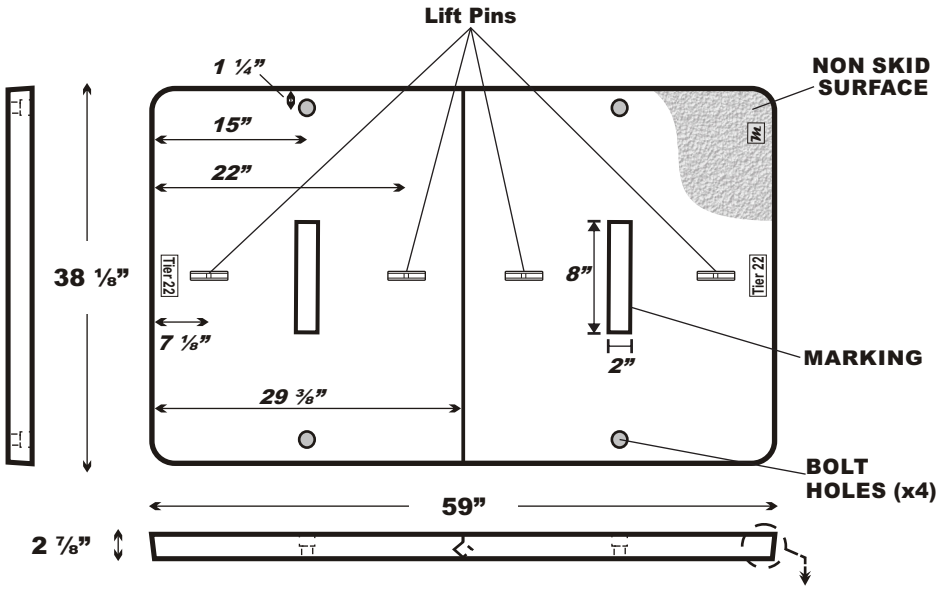
3660 Polymer Concrete Series / Tier 15 & 22

Listed Product

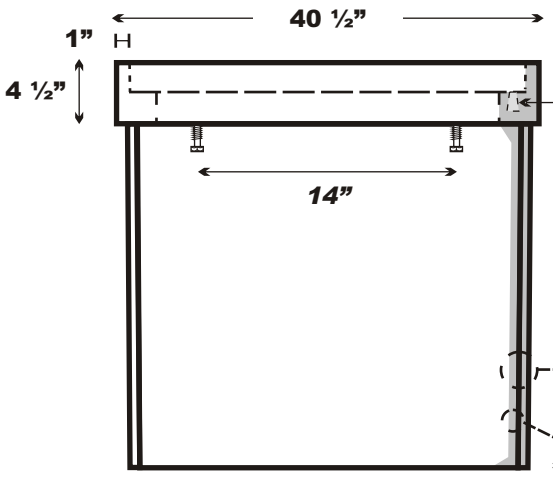
TOP VIEW



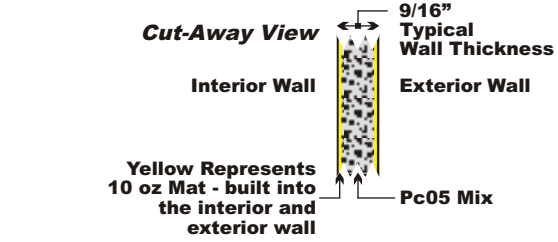
COVER VIEW



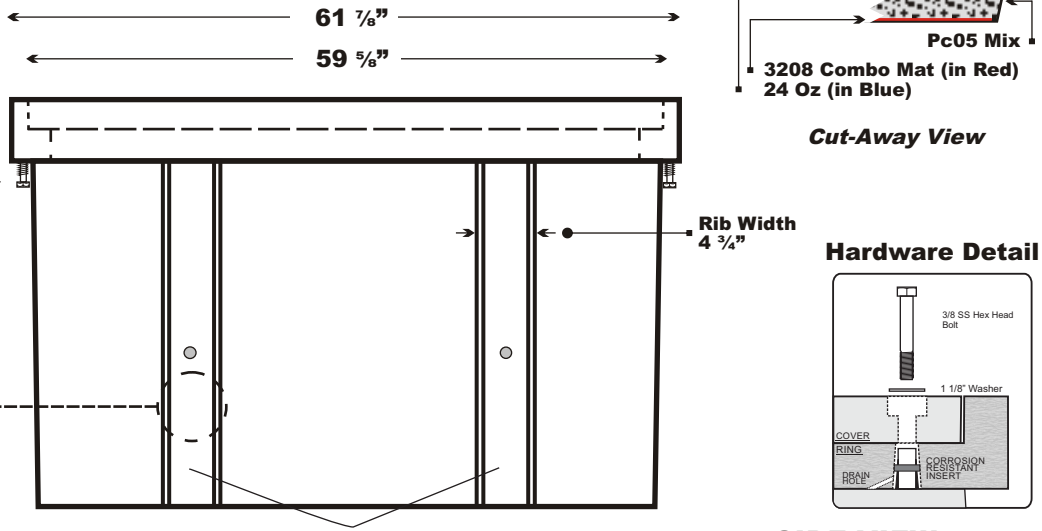
END VIEW



Cut-Away View



Cut-Away View



Hardware Detail

SIDE VIEW

Part No. 3660 Polymer Concrete Series		
Body: Polymer Concrete	**Cover: Polymer Concrete**	
Weight 740-920 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 21, 2014	**File 3660 PC Series**	**Tier 15/22 Rated**

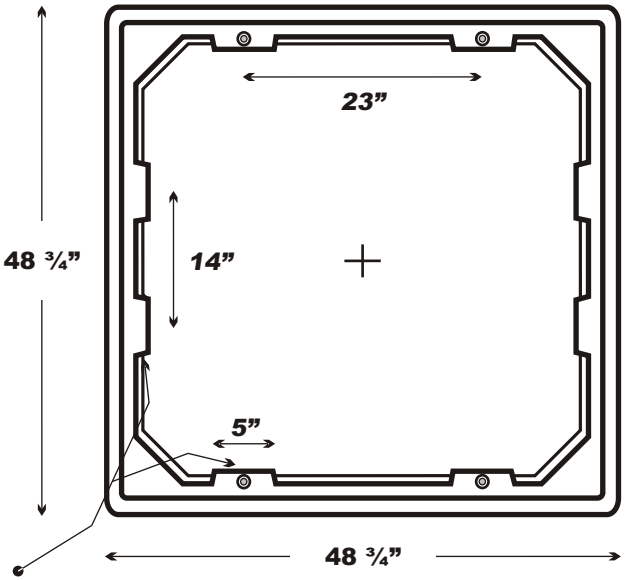
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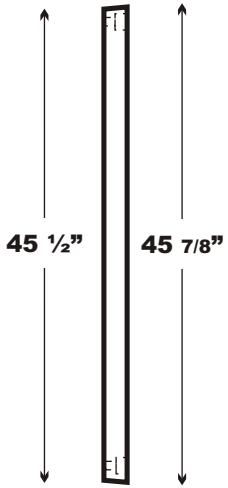
4848 Polymer Concrete Series / Tier 15 & 22

Listed Product

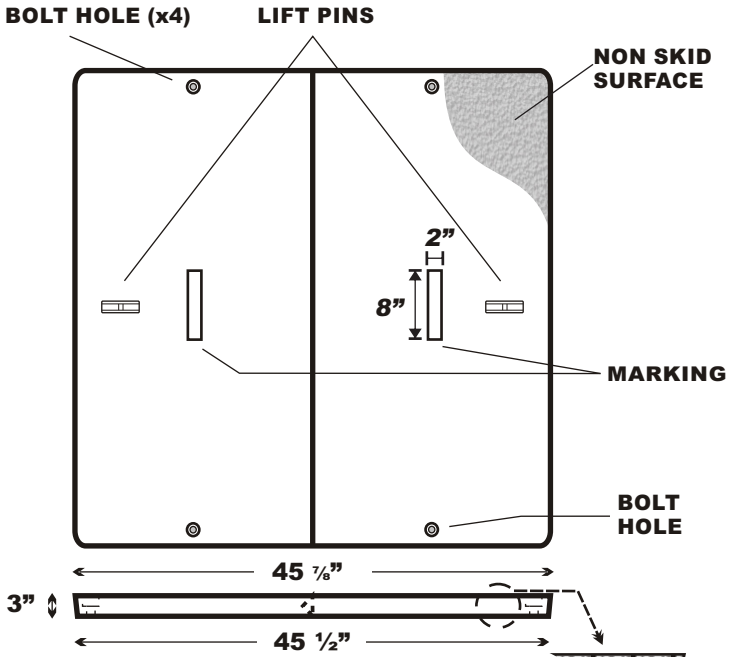
TOP VIEW

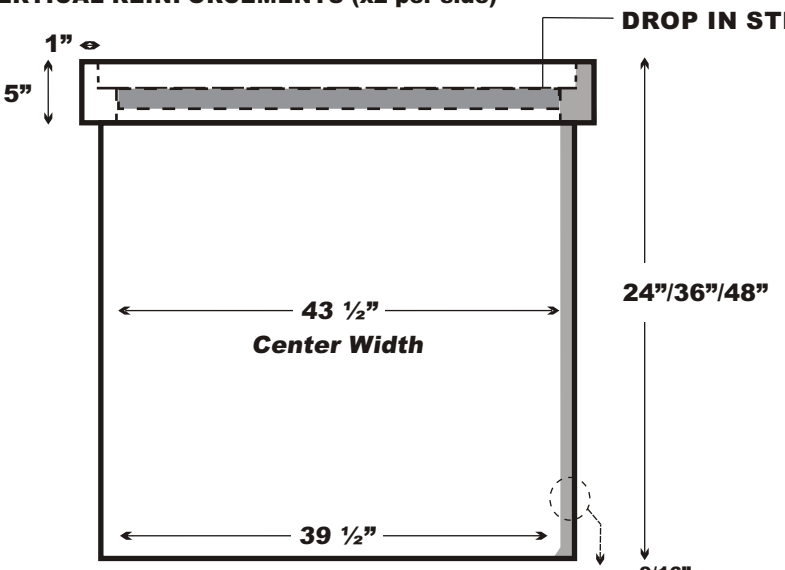


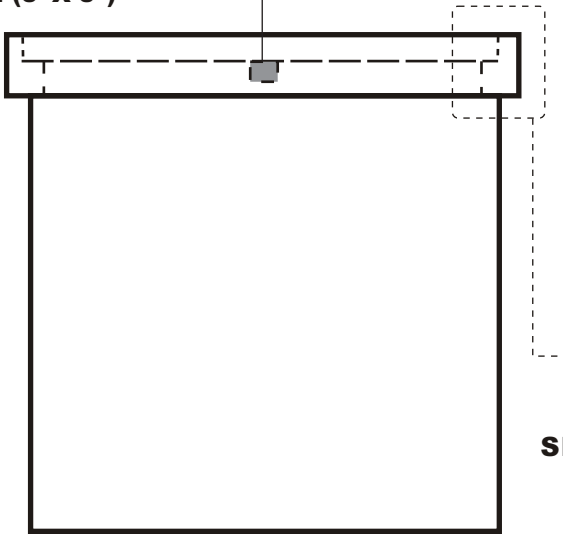
INTERIOR VERTICAL REINFORCEMENTS (x2 per side)

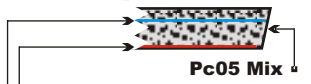


COVER VIEW



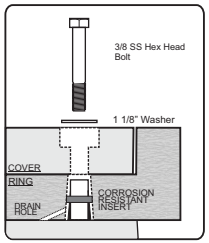






Cut-Away View

Hardware Detail



SIDE VIEW

END VIEW



Cut-Away View

Interior Wall

Yellow Represents 10 oz Mat - built into the interior and exterior wall

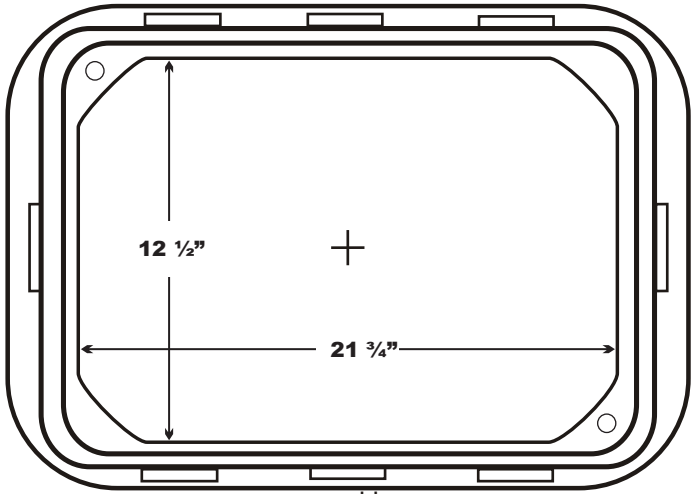
Part No. 4848 Polymer Concrete Series		
Body: Polymer Concrete	Cover: Polymer Concrete	
Weight Varies	Tolerance +/- ⅛”	ANSI/SCTE 77 2013
October 21, 2014	File: 4848 PC Series	Tier 15/22 Rated

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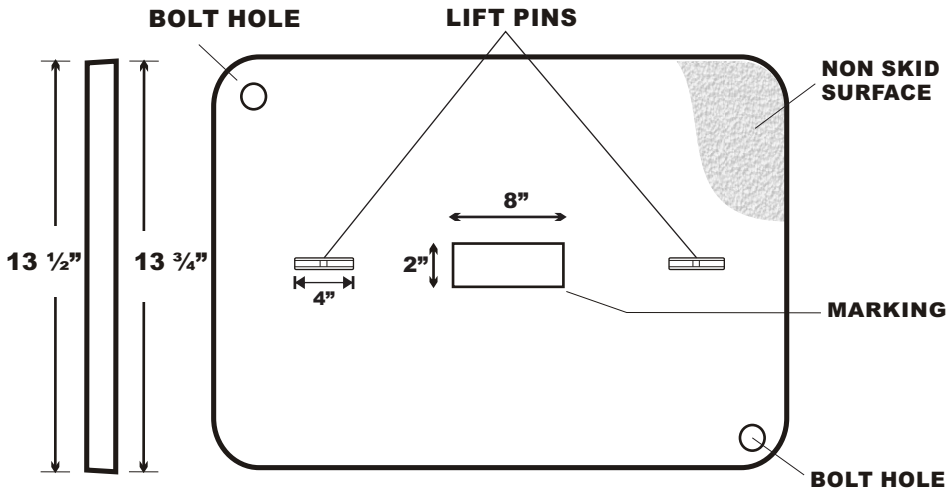
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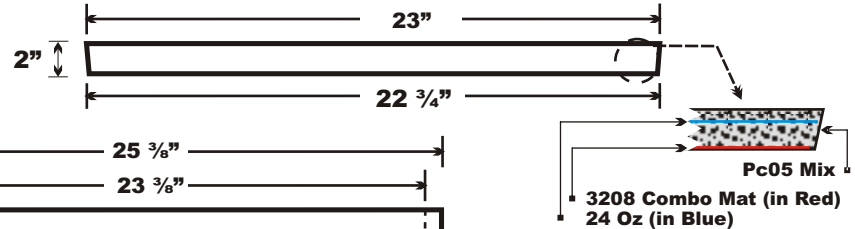
1324 FRP Series / Tier 15

TOP VIEW



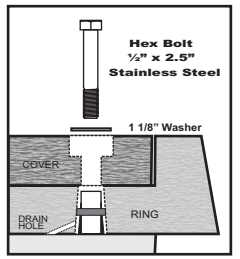
COVER VIEW

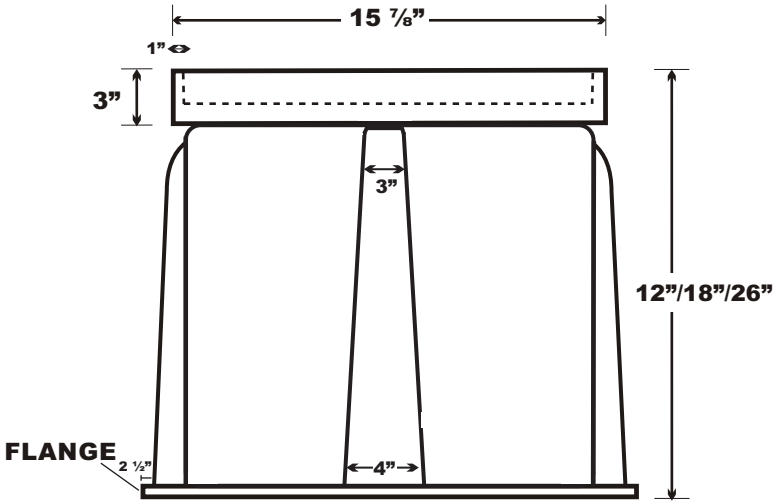




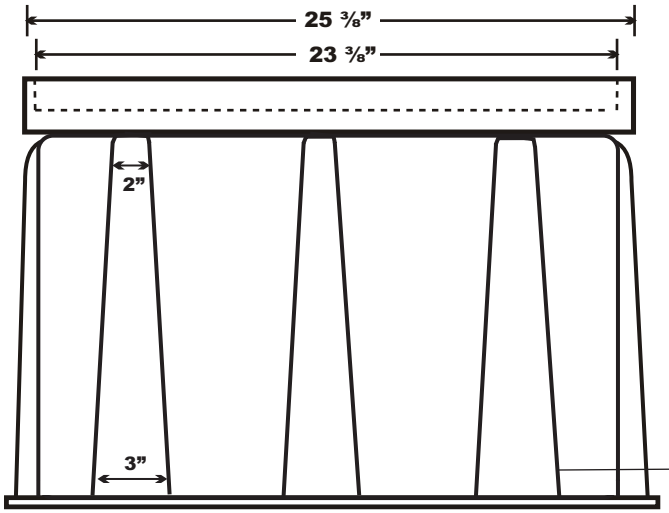
Cut-Away View

Hardware Detail





END VIEW



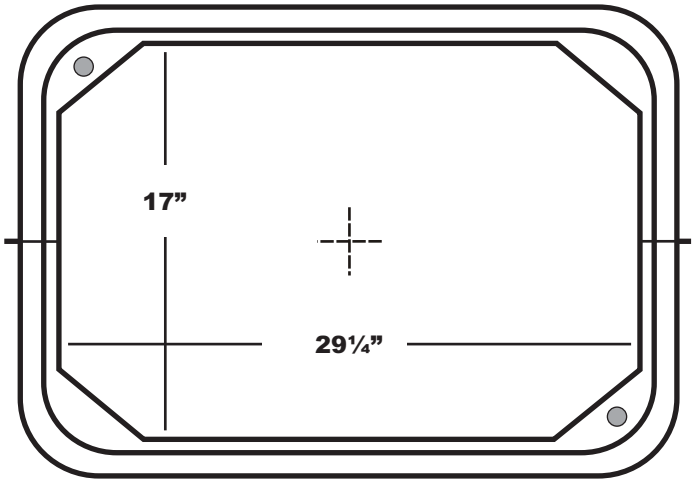
SIDE VIEW

Part Number 1324 FRP Series		
Body: FRP	**Cover: Polymer Concrete**	
Weight: 95-110lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17 2014	**File: 1324 FRP Series**	**Tier 15 Rated**

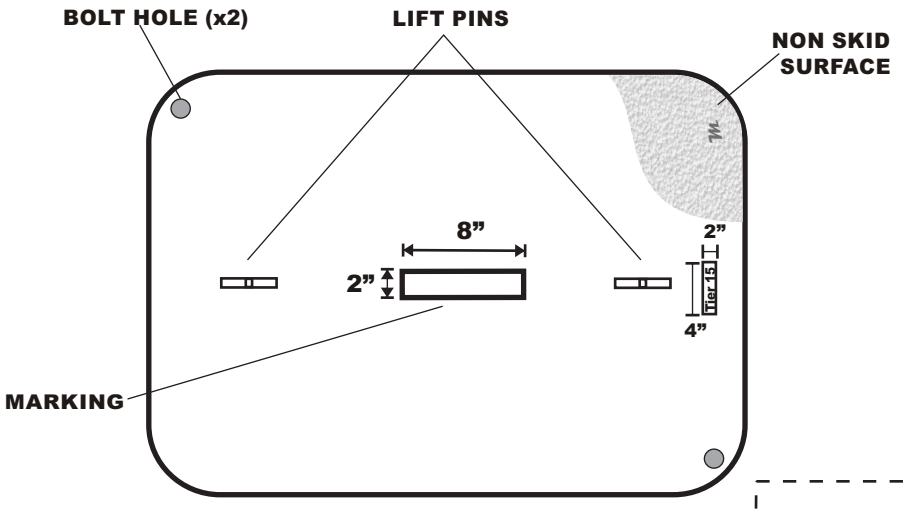
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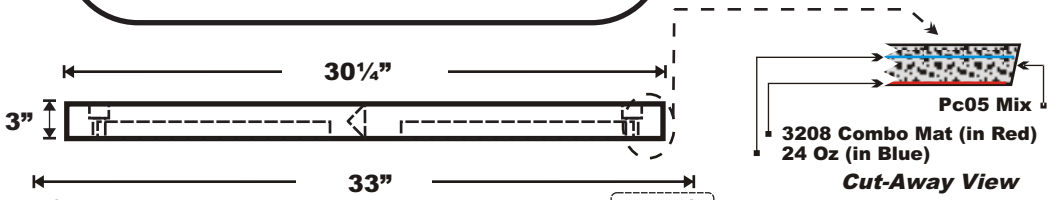
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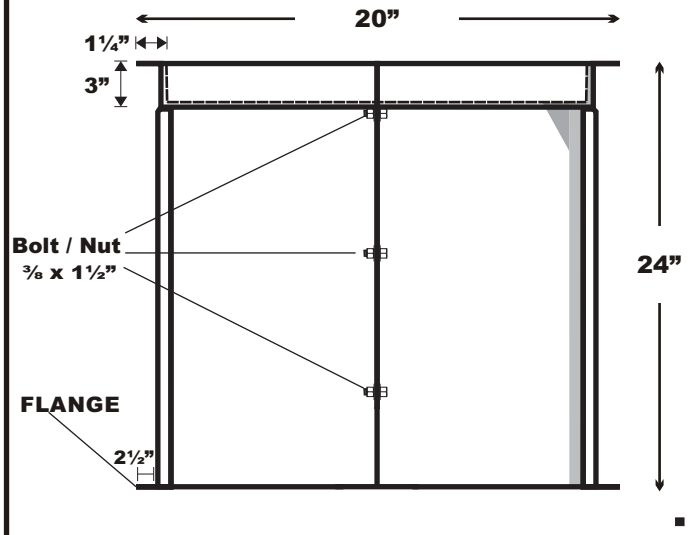
1730/24 FRP-N / Tier 15



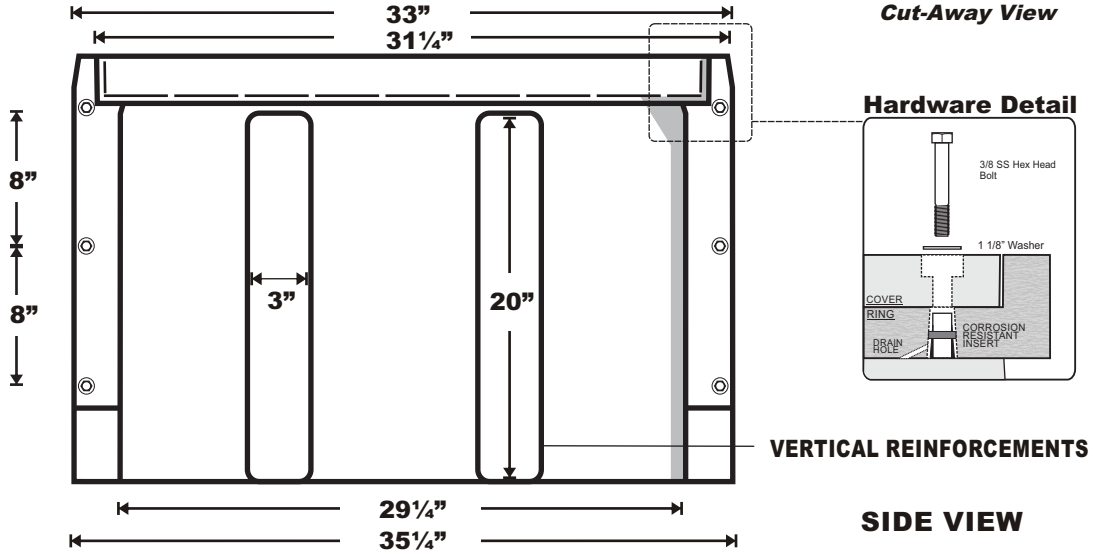
COVER VIEW







END VIEW



SIDE VIEW

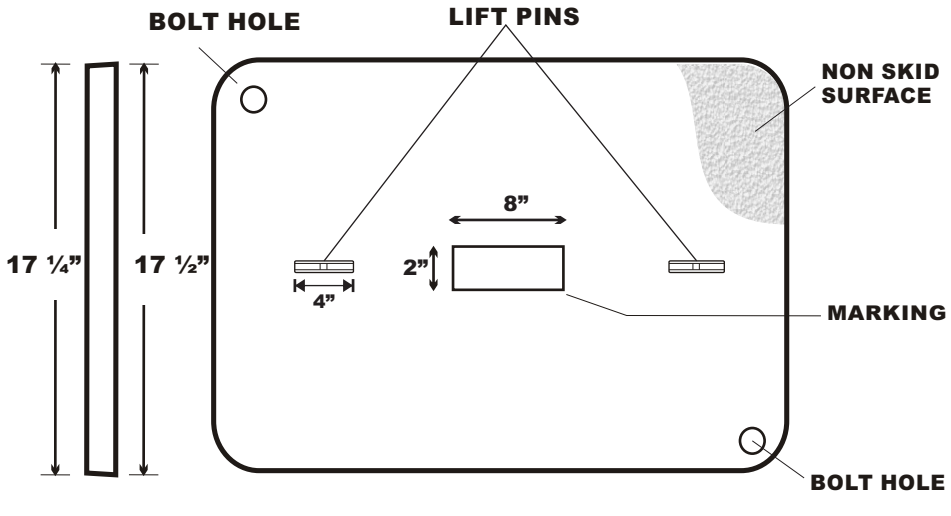
Part Number 1730/24 FRP-N		
Body: FRP	**Cover: Polymer Concrete**	
Weight 192 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17, 2014	**File 1730/24 FRP-N**	**Tier 15 Rated**

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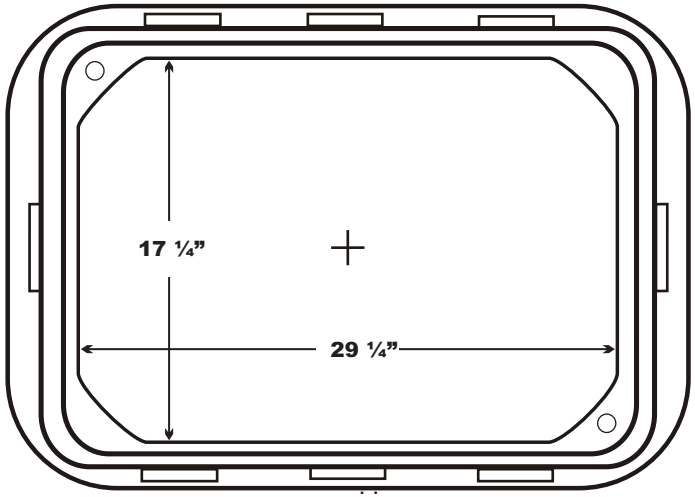
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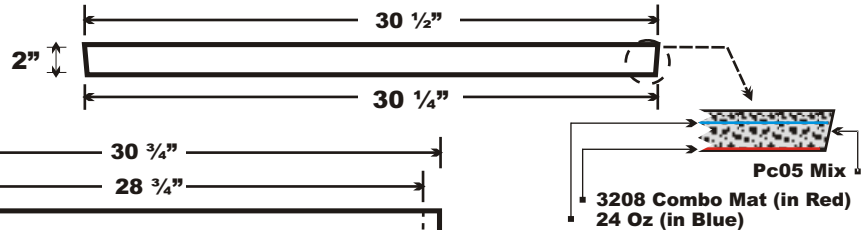
1730 FRP Series / Tier 15

COVER VIEW

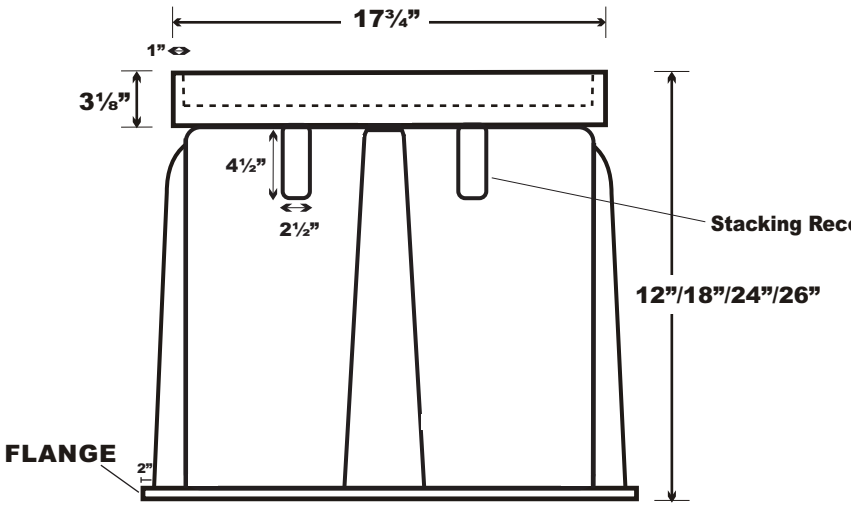


TOP VIEW

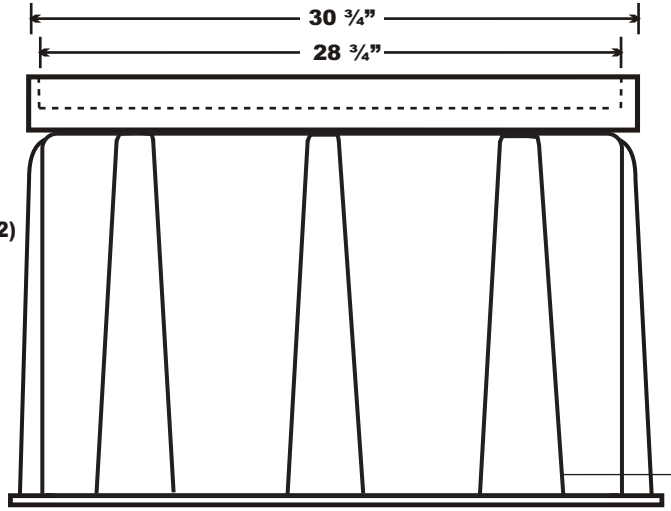




Cut-Away View

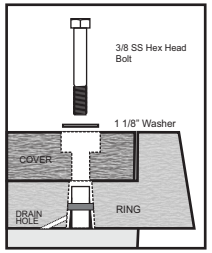


END VIEW



SIDE VIEW

Hardware Detail



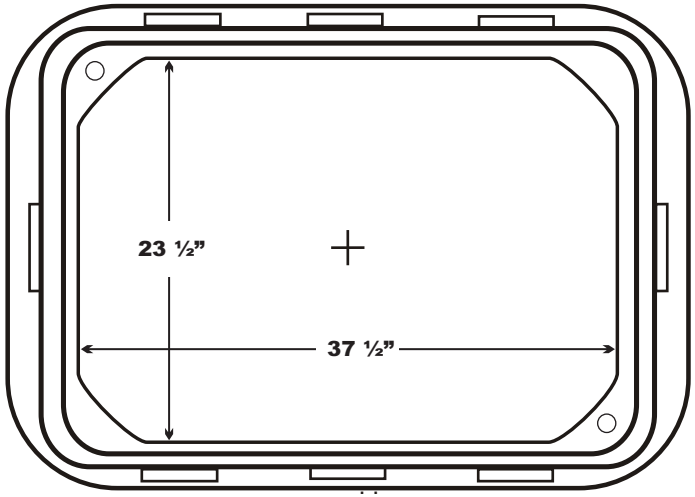
Part Number 1730 FRP Series		
Body: FRP	**Cover: Polymer Concrete**	
Weight: 110-150lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17 2014	**File: 1730 FRP Series**	**Tier 15 Rated**

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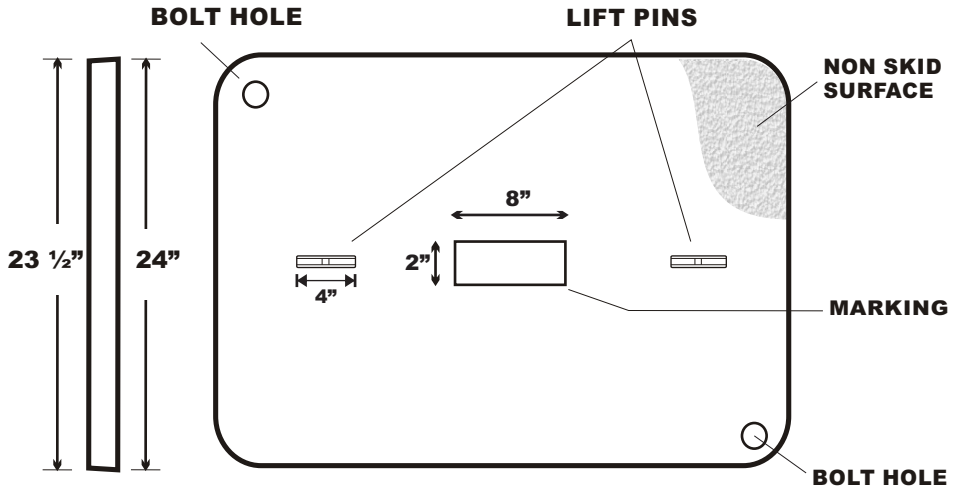
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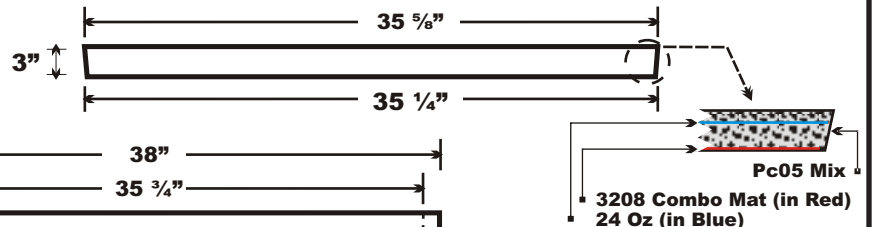
2436 FRP Series / Tier 15

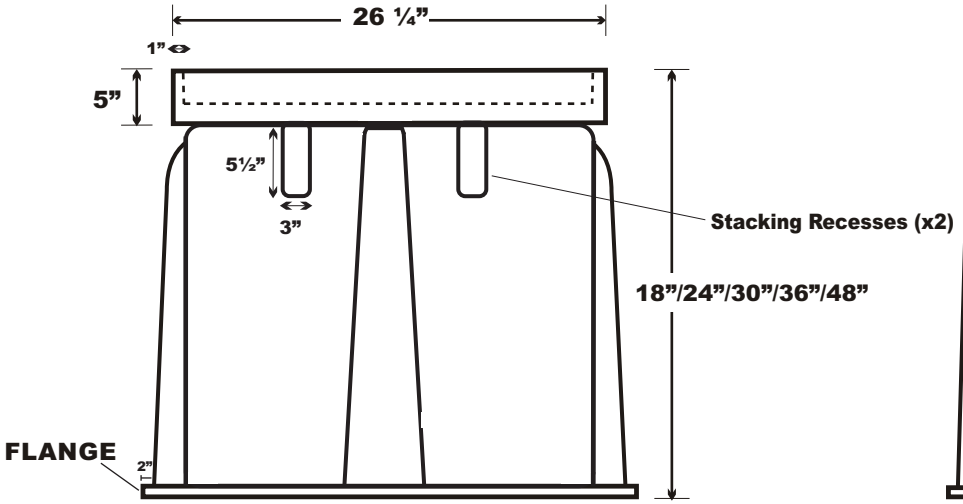
TOP VIEW



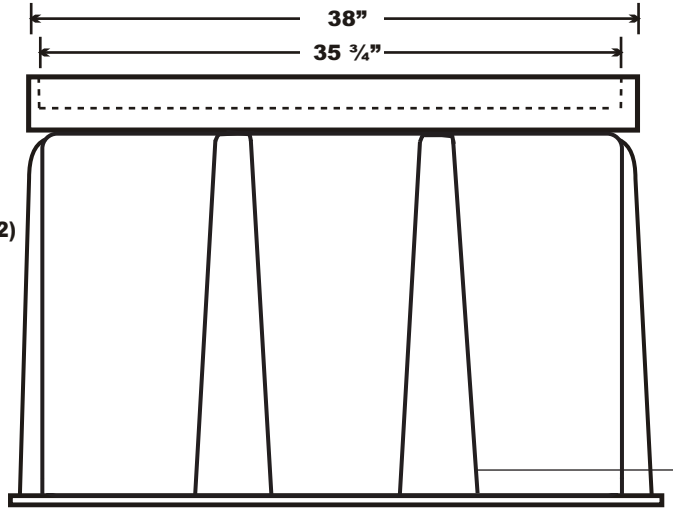
COVER VIEW





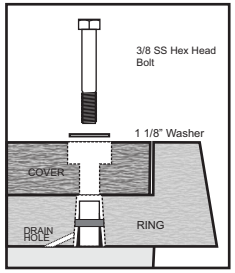


END VIEW



SIDE VIEW

Hardware Detail



Part Number 2436 FRP Series		
Body: FRP	**Cover: Polymer Concrete**	
Weight: 215-350lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17 2014	**File: 2436 FRP Series**	**Tier 15 Rated**

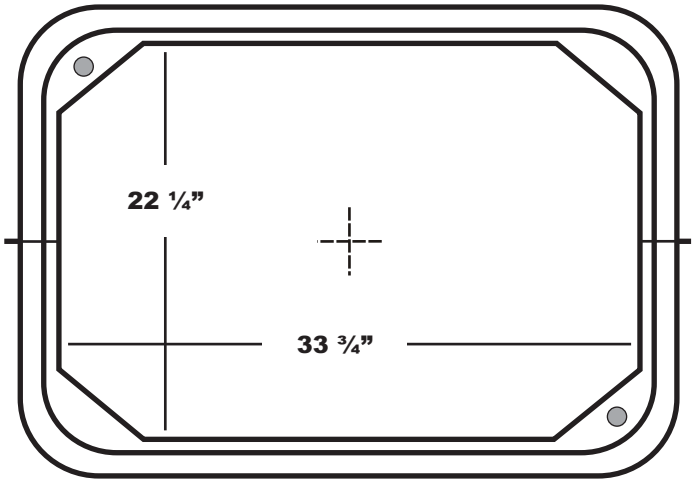
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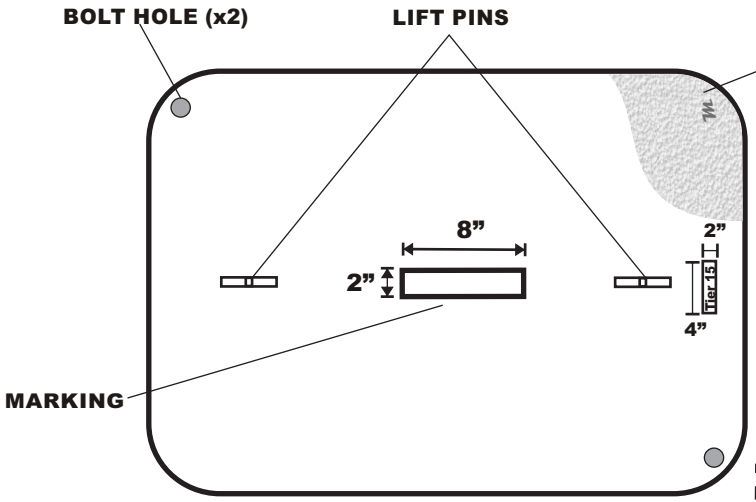
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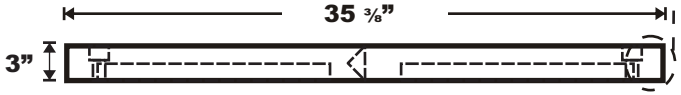
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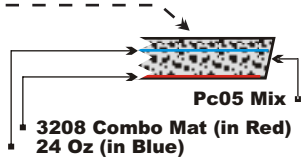
2436/24 FRP-N / Tier 15



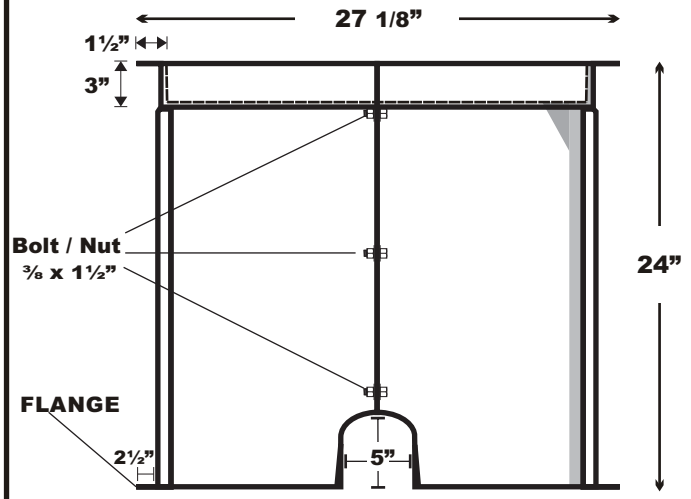
COVER VIEW





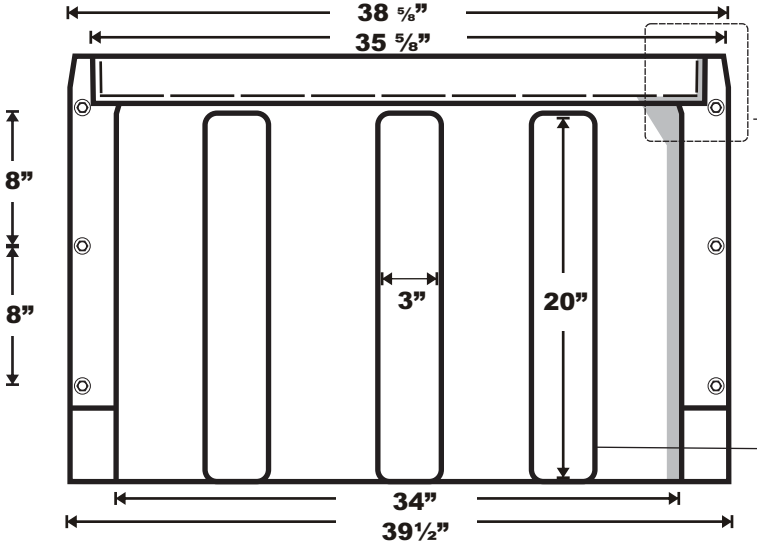


Cut-Away View



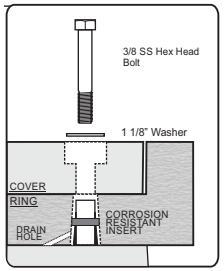
Mousehole (x2)
Built into Body Mold

END VIEW



SIDE VIEW

Hardware Detail

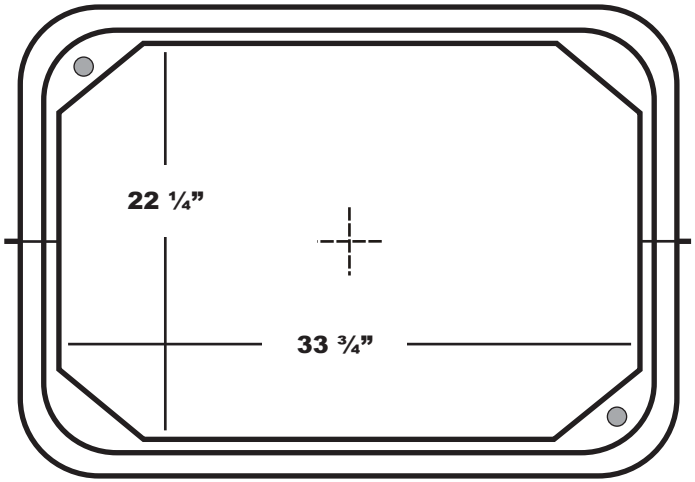


Part Number 2436/24 FRP-N		
Body: FRP	**Cover: Polymer Concrete**	
Weight 192 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17, 2014	**File 2436/24 FRP-N**	**Tier 15 Rated**

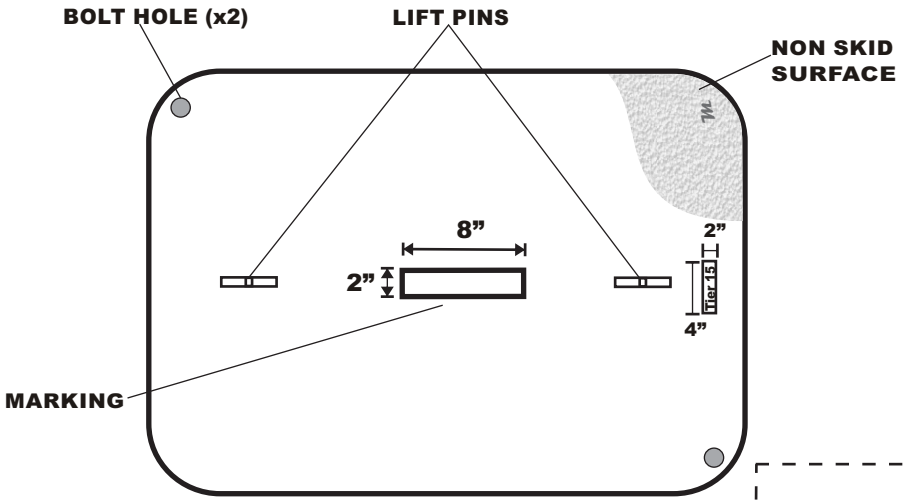
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2436/36 FRP-N / Tier 15

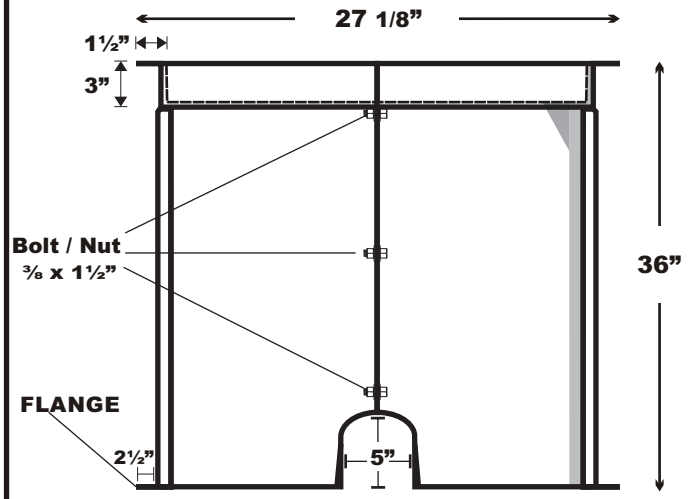


COVER VIEW



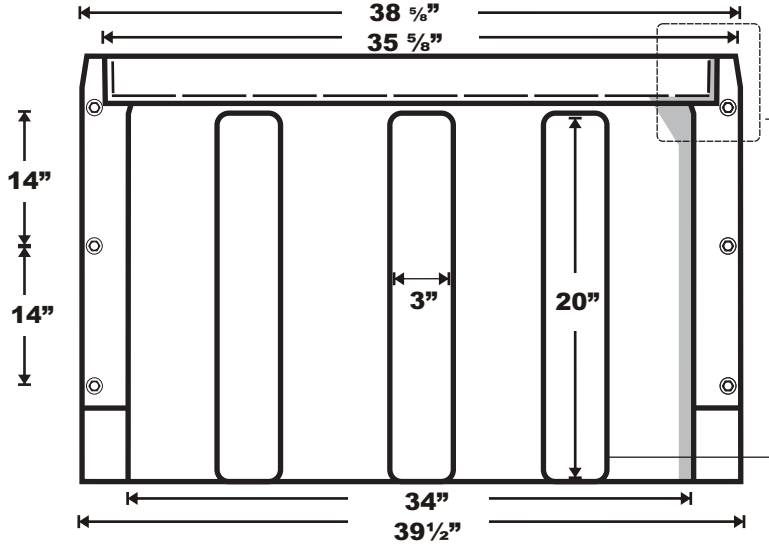


Cut-Away View

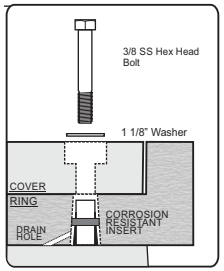


Mousehole (x2)
Built into Body Mold

END VIEW



Hardware Detail



VERTICAL REINFORCEMENTS

SIDE VIEW

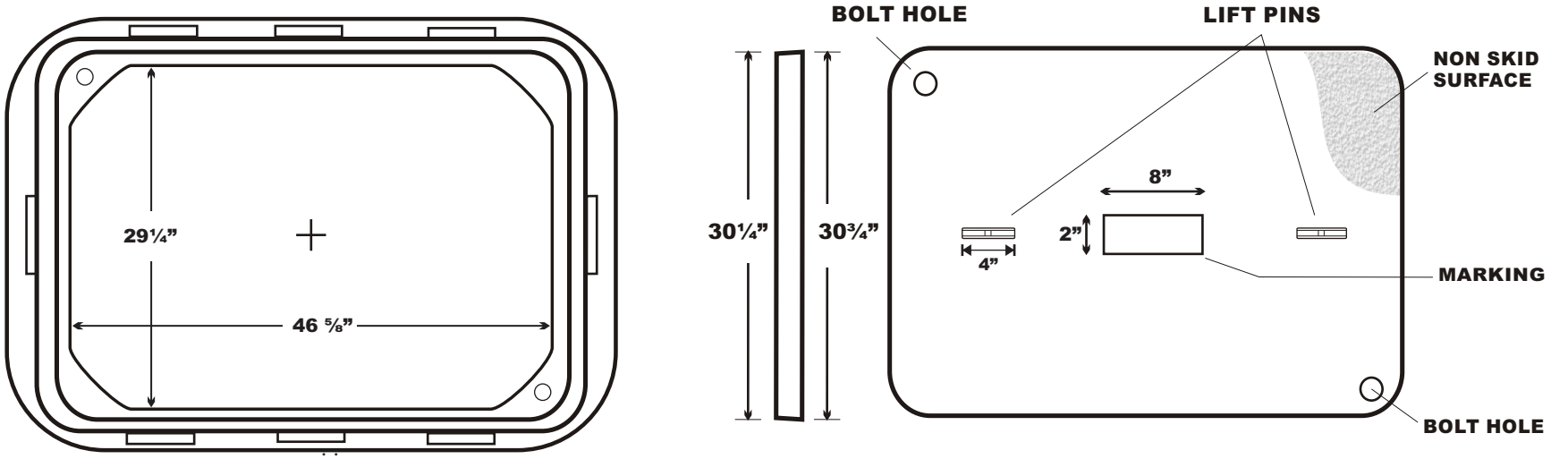
Part Number 2436/36 FRP-N		
Body: FRP	**Cover: Polymer Concrete**	
Weight 215 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17, 2014	**File 2436/36 FRP-N**	**Tier 15 Rated**

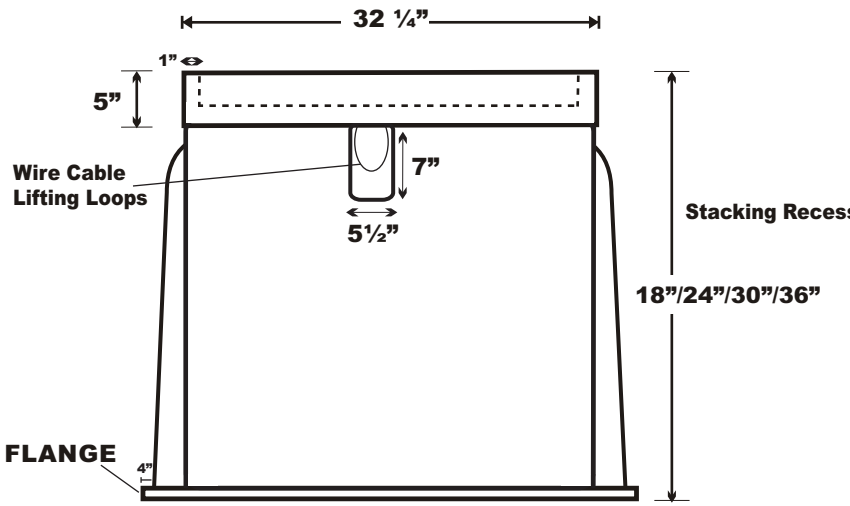
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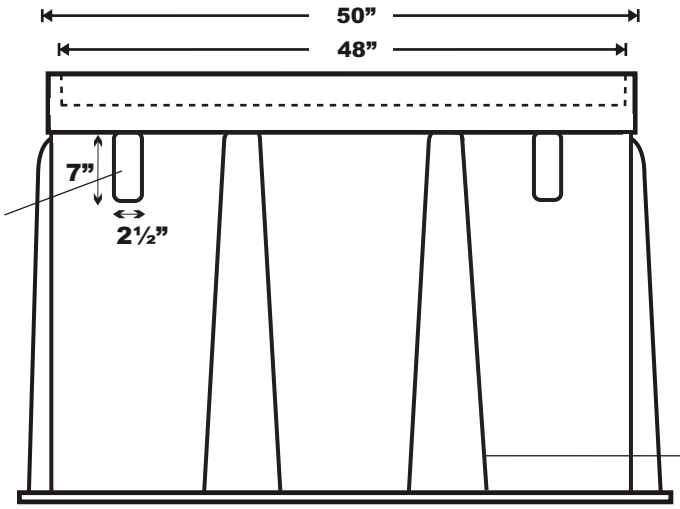
3048 FRP Series / Tier 15

COVER VIEW



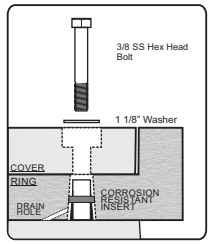


END VIEW



SIDE VIEW

Hardware Detail

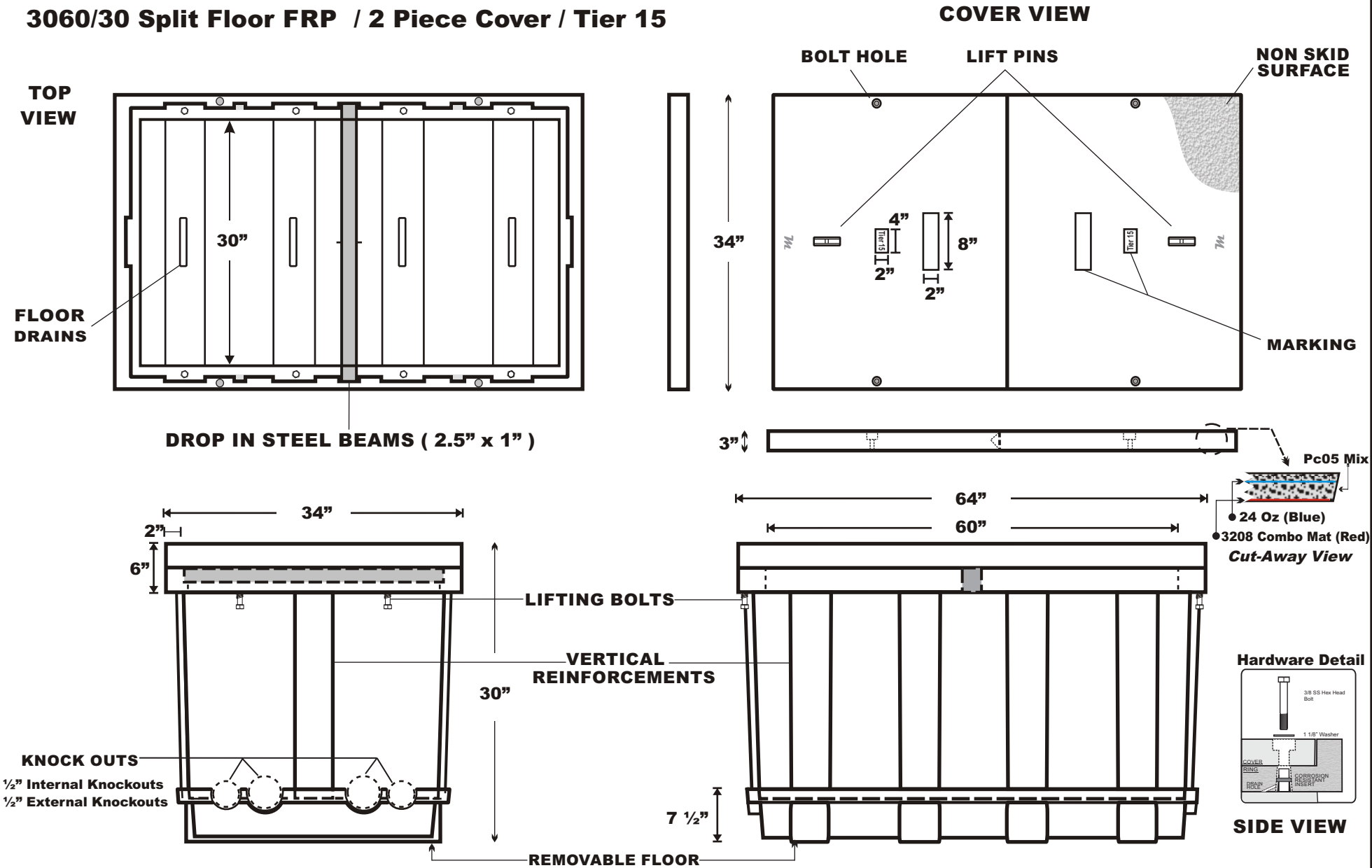


Part Number 3048 FRP Series		
Body: FRP	**Cover: Polymer Concrete**	
Weight: 355-445lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17 2014	**File: 3048 FRP Series**	**Tier 15 Rated**

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3060/30 Split Floor FRP / 2 Piece Cover / Tier 15

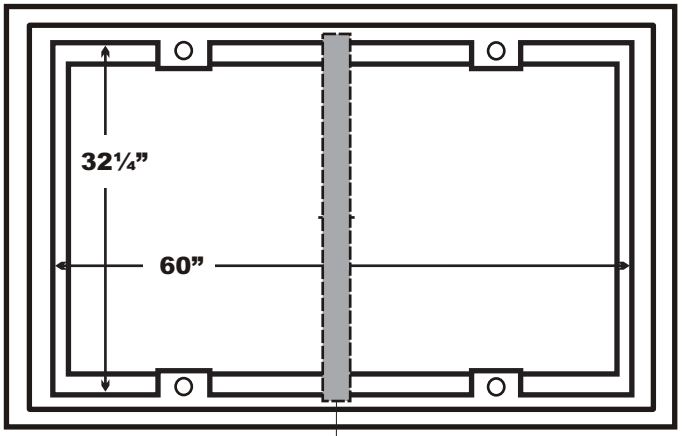


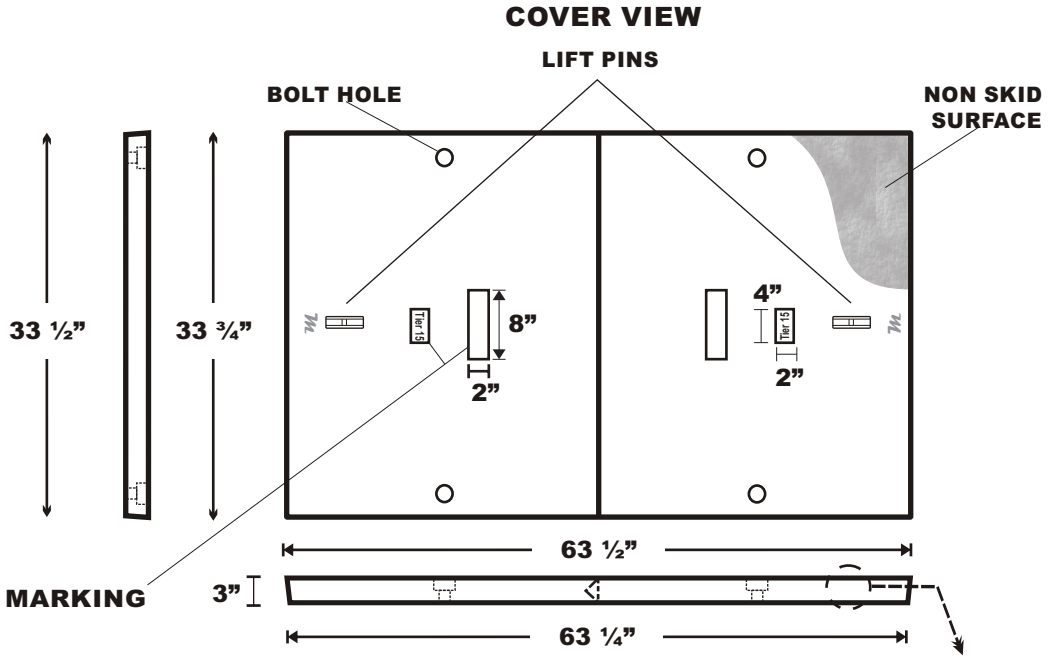
Part Number 3060/30 Split Floor FRP		
Body: FRP	**Cover: Polymer Concrete**	**Floor: FRP**
Weight 555lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
November 4, 2014	**File 3060/30 Split Floor FRP**	**Tier 15 Rated**

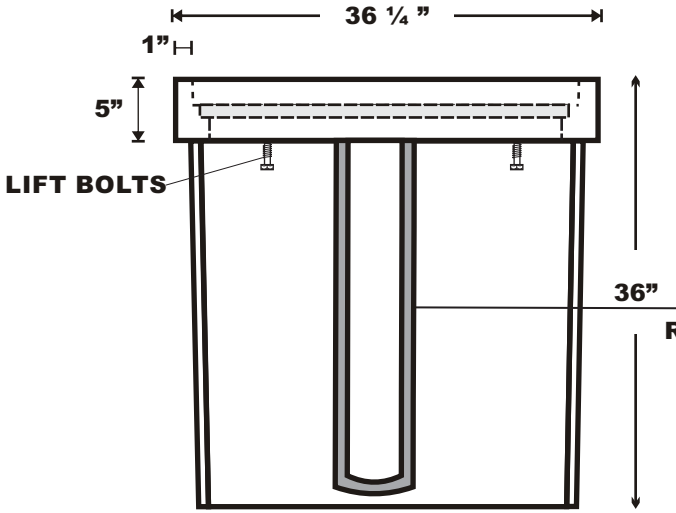
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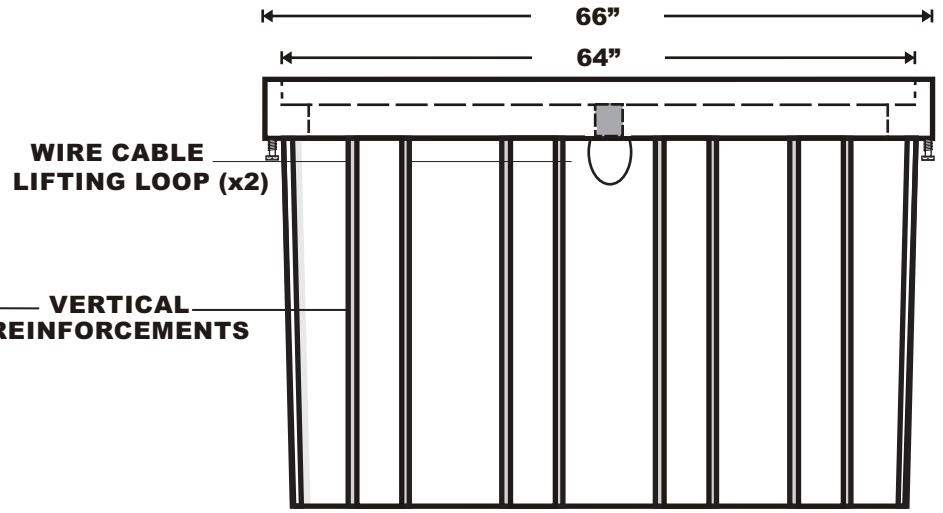
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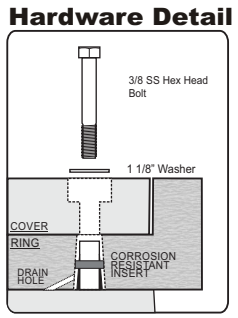
3060/36 FRP / 2 Piece Cover / Tier 15











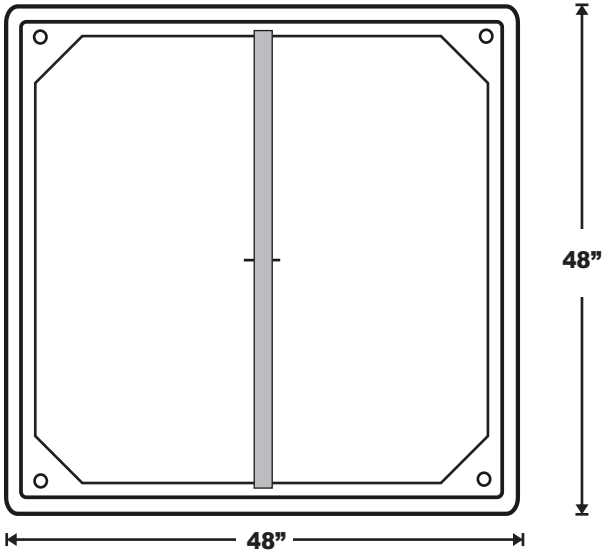
Part Number 3060/36 FRP		
Body: FRP	**Cover: Polymer Concrete**	
Weight 580lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
November 4, 2014	**File 3060/36 FRP**	**Tier 15 Rated**

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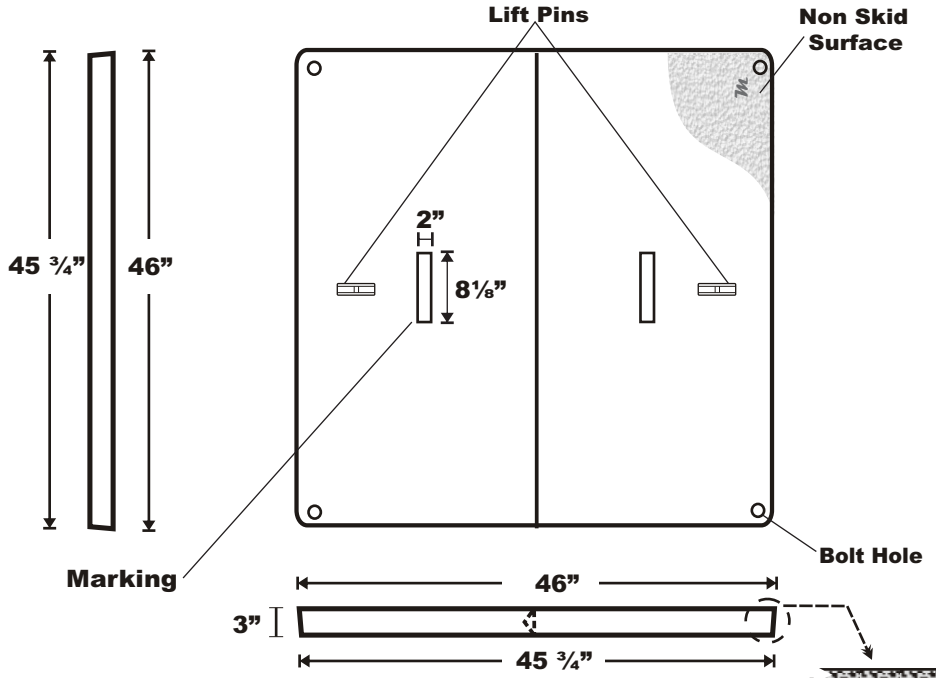
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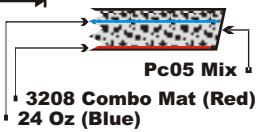
4848 FRP Series / Tier 15

TOP VIEW

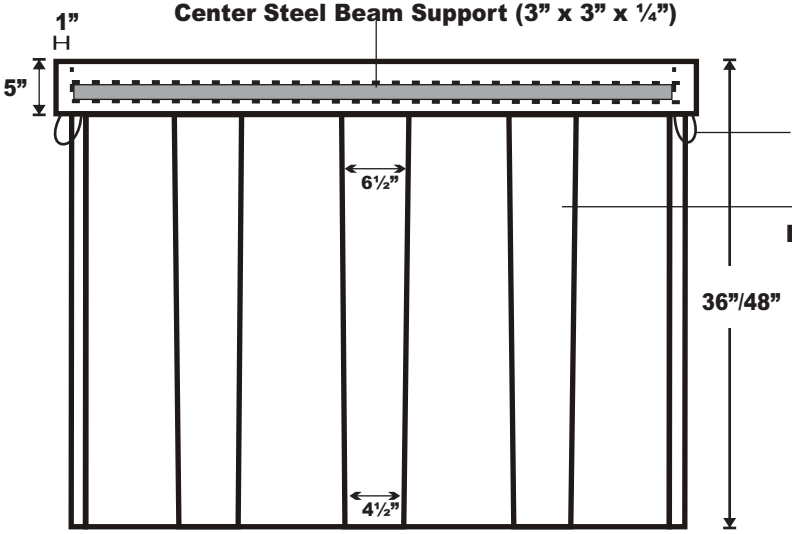


COVER VIEW

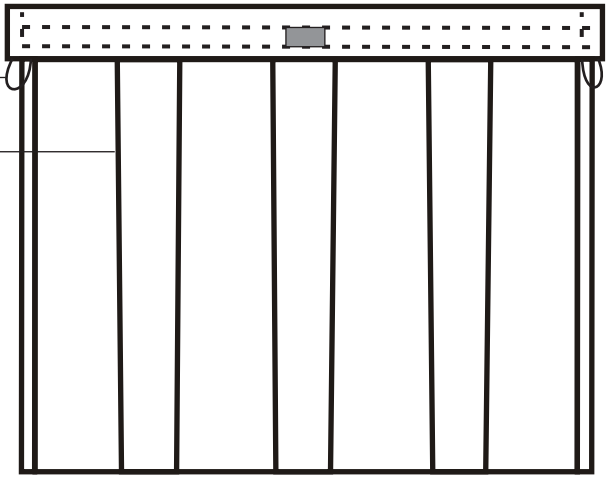




Cut-Away View

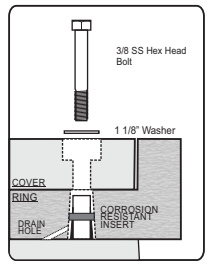


END VIEW



SIDE VIEW

Hardware Detail



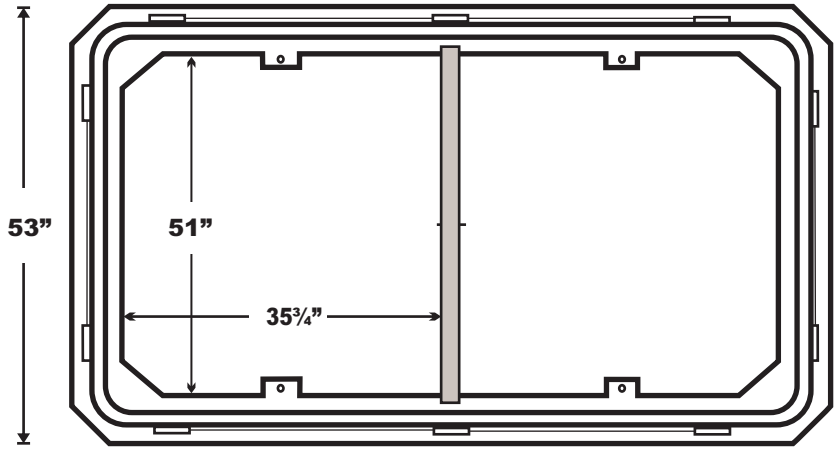
Part Number 4848 FRP Series		
Body: FRP	**Cover: Polymer Concrete**	
Weight 670-690 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 27, 2014	**File 4848 Series FRP**	**Tier 15 Rated**

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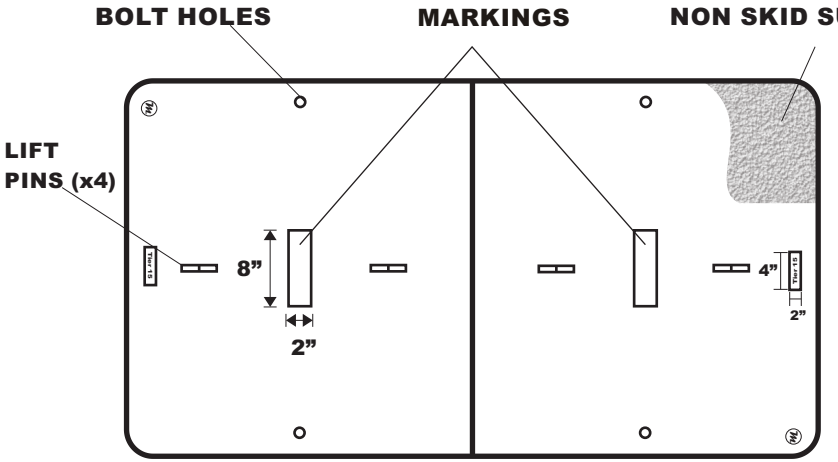
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4872 FRP Series / Tier 15

TOP VIEW

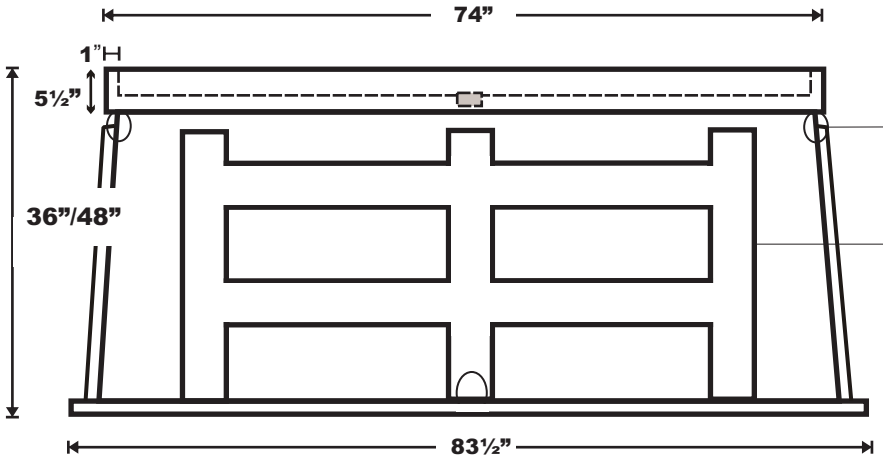


COVER VIEW



STEEL BEAM CENTER SUPPORT (3” x 3” ¼”)

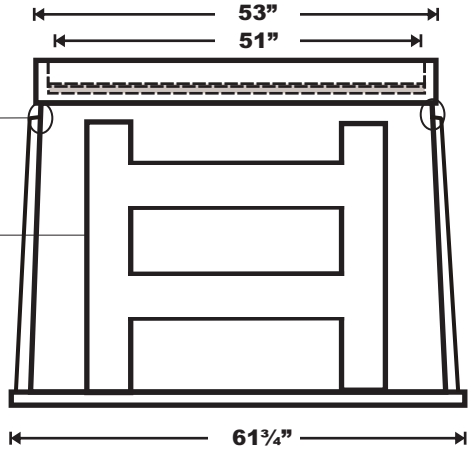




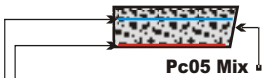
SIDE VIEW

Wire Cable
Lifting Loops

Vertical
Reinforcements

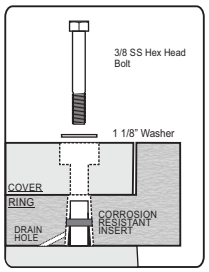


END VIEW



Cut-Away View

Hardware Detail



Part Number 4872 FRP Series		
Body: FRP	**Cover: Polymer Concrete**	
Weight 900-950 lbs.	**Tolerance +/- 1/8”**	**ANSI/SCTE 77 2013**
October 17, 2014	**Fit 4872 FRP Series**	**Tier 15 Rated**

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