

ACURA

Dealership Identification Program & Branding Guidelines



410 N. Cedar Bluff Road Suite 101
Knoxville, Tennessee 37923
www.pattisonsign.com

ALPOLIC®

MATERIALS

1. Product Name

ALPOLIC® Aluminum Faced Composite Panel

2. Manufacturer

Mitsubishi Plastics Composites America, Inc.
 401 Volvo Parkway
 Chesapeake, VA 23320
 (800) 422-7270
 Fax: (757) 436-1896
 E-mail: info@alpolic.com
 www.alpolic-northamerica.com

3. Product Description

BASIC USE

ALPOLIC® is a lightweight, rigid, bendable and durable aluminum faced composite panel widely used as an interior and exterior wall cladding in commercial and institutional applications. It offers design flexibility through a wide variety of fabrication techniques, including panels into curves, angles and pan configurations.

COMPOSITION & MATERIALS

ALPOLIC panels consist of a core of thermoplastic material thermally bonded to face sheets fabricated of aluminum 3105 H14 alloy, 0.020" (0.5 mm) thick or an equivalent.

TYPES

Several types of ALPOLIC panels are available, including:

- ALPOLIC standard panels
- ALPOLIC A-LOOK® reflective finish panels
- ALPOLIC Stone Series simulated stone finish panel
- ALPOLIC Timber Series simulated wood finish panels
- ALPOLIC Decorative Metal panels
- ALPOLIC Natural Metals copper mill finish panels
- ALPOLIC anodized class 1 finish panels

SIZES

ALPOLIC panels are available in 3, 4 and 6 mm thicknesses, in standard widths of 50" (1270 mm) and 62" (1575 mm) and standard lengths of 122", 146" and 196" (3099, 3708 and 4978 mm).

A range of custom sizes is available:

- Width - 32" - 62" (813 - 1575 mm)
- Length - 76" - 24' 2" (1930 - 7366 mm)

FINISHES

- Lumiflon® FEVE resin based fluoropolymer coil coat meets performance requirements of AAMA 2605 (standard)
- Kynar® PVDF resin based fluoropolymer coil coat meets performance requirements of AAMA 2605 (custom)
- Polyester
- Class I anodized - Clear, along with other colors

Standard ALPOLIC with Lumiflon FEVE fluoropolymer finishes are available in a broad spectrum of gloss levels, from 30 - 70%. Contact the manufacturer for minimum quantities and availability. Lumiflon, in its ambient cure spray product, allows close-matching field touch-up and recoat.

A-LOOK Series offers an array of reflective surfaces for interior and exterior application. Stocked colors are chrome, gold and bronze.

Stone Series is a simulated stone fluoropolymer finish combined with fluoropolymer colors in white marble and red, pink, white and black granite finishes.

ALPOLIC Lumiflon FEVE colors are available in full gloss range with minimum 1000 ft² (93 m²) coil coated orders. Allow 8 weeks for shipment of custom colors.

Complete custom color matching, available in ALPOLIC Lumiflon FEVE coatings, is subject to minimum order quantities. A selection of stock fluoropolymer colors is available in a quick ship program in 4 mm panel thickness.

Quick Ship stock 4 mm thick ALPOLIC panel selections. Contact Mitsubishi Plastics Composites America, Inc. (MPCA) customer service for color and size availability.

SHAPES & FABRICATION

ALPOLIC panels can be cut, routed and formed with conventional woodworking tools. Angle bends are formed by routing the back of the panel prior to shaping. The common pan shape is formed by routing the back edges, trimming the corners and bending and reinforcing the edges.

ALPOLIC can be rolled on a pyramid or 4-stand roll bender to a curved shape for curved corners or column covers. Bumping on a press brake also can be used to produce a curved surface.

The bending radius of ALPOLIC 4 mm panels is as small as 2" (51 mm). Corner radii can be detailed as small as 1/8" (3.2 mm) using the back routed method described in ALPOLIC literature.



4. Technical Data

APPLICABLE STANDARDS

American Architectural Manufacturers Association (AAMA) - AAMA 2605 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

ASTM International

- ASTM C297 Standard Test Method for Tensile Strength on Flat Sandwich Constructions in Flatwise Plane
- ASTM C976 Standard Test Method for Thermal Performance of Building Assemblies by Means of a Calibrated Hot Box (Withdrawn 2002)
- ASTM D635 Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position
- ASTM D696 Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer
- ASTM D1037 Standard Test Method for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
- ASTM D1781 Standard Test Method for Climbing Drum Peel for Adhesives
- ASTM D1929 Standard Test Method for Determining Ignition Temperature of Plastics
- ASTM E8 Standard Test Method for Tension Testing of Metallic Materials
- ASTM E72 Standard Test Methods for Conducting Strength Tests of Panels for Building Construction
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials



Mitsubishi Plastics Composites America, Inc.

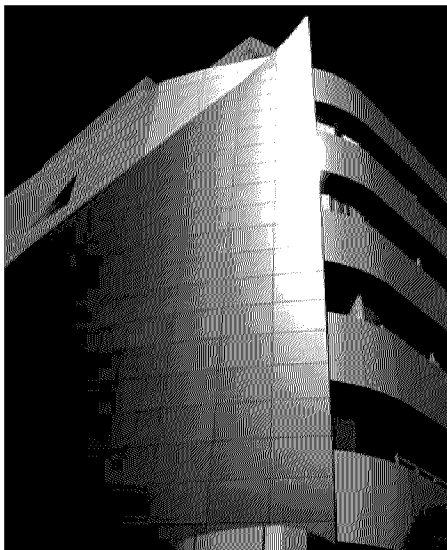
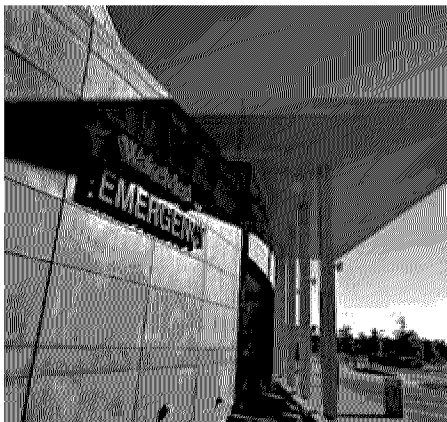


TABLE 1 PHYSICAL PROPERTIES

Properties	ALPOLIC		A-LOOK	
	4 mm	6 mm	2 mm	3 mm
Aluminum thickness, in (mm)	0.020 (0.5)	0.020 (0.5)	0.010 (0.25)	0.010 (0.25)
Weight, psf (kg/m ²)	1.12 (5.5)	1.50 (7.32)	0.59 (2.9)	0.80 (3.9)
Coefficient of expansion, ASTM D696, in/in/°F	13 × 10 ⁻⁶	13 × 10 ⁻⁶	13 × 10 ⁻⁶	13 × 10 ⁻⁶
Tensile strength, ASTM E8, psi (MPa)	6913 (48)	4978 (35)	-	-
Yield strength, ASTM E8, psi (MPa)	6429 (44)	4466 (30)	-	-
Elongation	13.5%	17.5%	-	-
Thermal conductance, ASTM C976, Btu/(ft ² × h × °F) (W/(m ² × K))	10.75 (18)	8.53 (14)	-	-
Minimum Drum peel, ASTM D1781, in-lb/in (N-mm/mm)	22.5 (100)	22.5 (100)	-	-
Thermal resistance, ft ² × h × °F/Btu (m ² × K/W)	0.09 (0.016)	0.12 (0.021)	-	-
Sound transmission coefficient, ASTM E413	26	26	-	-

TABLE 2 FIRE PERFORMANCE PROPERTIES

Properties	ALPOLIC	
	4 mm	6 mm
Surface burning characteristics, ASTM E84		
Smoke developed index	450 maximum	450 maximum
Flamespread index	25 maximum	25 maximum
Vertical transmission, ASTM E108 (modified)	Passed	Passed
Ignition temperature, ASTM D1929		
Flash ignition	716° F (380° C)	-
Self-ignition	752° F (400° C)	-
Rate of burning, ASTM D635	CCI	-

- ASTM E108 (Modified) Standard Test Methods for Fire Tests of Roof Coverings
- ASTM E283 Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Difference Across the Specimen
- ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
- ASTM E413 Standard Classification for Rating Sound Insulation

APPROVALS

ALPOLIC® Aluminum Faced Composite Panel meets the following standards:

- International Building Code (IBC)
- Underwriters Laboratories (UL): UL94, UL879
- Miami Dade NOA
- Florida Building Code

PHYSICAL/CHEMICAL PROPERTIES

See Table 1.

FIRE PERFORMANCE

See Table 2.

5. Installation

PREPARATORY WORK

The manufacturer recommends field measurement prior to fabrication. Verify alignment of surfaces to receive panels.

APPLICATION

ALPOLIC surfaces can be attached to one another or to other materials by conventional methods of attachment - rivets, bolts or screws. For interior installation, flat surfaces of ALPOLIC can be attached to substrates such as gypsum

board using double-faced tape or non-hardening adhesive.

PRECAUTIONS

ALPOLIC panels are prefinished architectural products requiring care in handling to avoid damage to the finish. Handle, store, install and clean panels following the manufacturer's instructions. Comply with manufacturer's recommendations regarding expansion and contraction in detailing and installing ALPOLIC.

6. Availability & Cost

AVAILABILITY

ALPOLIC panels are available worldwide through the regional offices of Mitsubishi Plastics Composites America, Inc. Contact Mitsubishi for the location of an area ALPOLIC representative.

COST

Contact the area representative or the Mitsubishi Plastics Composites America, Inc., home office





Mitsubishi Plastics Composites America, Inc.

for ALPOLIC pricing. Costs vary due to project size, finish selection and panel sizes.

7. Warranty

Contact the manufacturer for information on panel and finish warranties.

8. Maintenance

LUMIFLON FEVE fluoropolymer is a long-term, maintenance-free finish. Under normal exposure and use, it is self-cleaning through rain washing. Water flush or power washing with a mild detergent is recommended to remove heavy soil.

9. Technical Services

Contact ALPOLIC for technical assistance with design and specification or for the name of a nearby representative.

10. Filing Systems

- SmartBuilding Index (SBI)
- MANU-SPEC®
- Additional product information is available from the manufacturer.



**FLUOROCARBON COATING WARRANTY
THIRTY YEAR**

To: (“Customer”)

From:

Mitsubishi Chemical Composites America, Inc.

Project Name and Location:

Complete Physical Address Required
Including City - State or Province - Zip or Postal Code

Commencement Date of Warranty:

Required

Mitsubishi Chemical Composites America, Inc. (MCCA) hereby warrants to the Customer that the Fluorocarbon-based coating **Thickness - Color** applied by MCCA to the aluminum materials purchased, by Customer from MCCA will not, for the above stated period, beginning at the commencement date, with warranty period not to exceed thirty years plus one from date of shipment, under normal atmospheric conditions on the coated aluminum:

- A. Peel, check or crack except for such slight crazing or cracking as may occur on tightly roll-formed edges or brake bends at the time of forming pre-painted sheets, which is accepted as standard; or
- B. (1) Chalk in excess of a numerical rating of **8** measured in accordance with the standard procedures as outlined by the “Standard Methods of Evaluating Degree of Chalking of Exterior Paint” ASTM D4214-89; or
- (2) Fade or change in color in excess of **5** color difference units, using ASTM D2244-89 measured on the exposed painted surfaces which have been cleaned of external deposits and chalk and the corresponding values measured on the original or unexposed painted surfaces, it being understood that fading or color changes may not be uniform if the surface is not evenly exposed to the sun and elements;

and that gloss (60⁰ incident angle) loss will not exceed 40% when measure on exposed painted surfaces which have been cleaned of external deposits and the corresponding values measured on unexposed original painted surfaces. The gloss shall be measured using standard procedures as defined by “Standard Test Method for Specular Gloss”, ASTM D523-89.

**FLUOROCARBON COATING WARRANTY
THIRTY YEAR**

This warranty is subject to the following conditions:

- A. Normal atmospheric conditions exclude corrosive or aggressive atmospheres such as those contaminated with chemical fumes, salt or other corrosive elements, including areas within 1500 feet of a body of salt water. MCCA requires a fresh water cleaning / maintenance program be in effect to prevent corrosion from accumulated deposits.
- B. For projects located +15° / -15° latitude of the equator, stated warranty period is reduced by 50%.
- C. The warranty will not extend or cover:
 - (1) cracking or crazing as a result of metal fracture;
 - (2) damage to the coating occasioned by moisture or other contamination detrimental to the coating because of improper storage of the coated metal prior to installation;
 - (3) water damage due to condensation caused by improper packaging of the coated metal prior to installation;
 - (4) damages to the coated metal caused by handling, shipping, processing and/or installation; or
 - (5) damages to the coated metal caused by scratching or abrading after installation; or
 - (6) damages to the coated metal as a result of standing water in horizontal installations;
 - (7) exposed edges
- D. Applied coatings, such as graffiti or later applied surface treatment(s), will void warranty.
- E. The warranty will not be applicable to damage or failure which is caused by acts of God, falling objects, external forces, explosions, fire, riots, civil commotion's, acts of war, or other such similar or dissimilar occurrences beyond MCCA's control.
- F. Customer shall maintain adequate records to establish identification of the coated material and dates of the installation of the coated metal. Customers shall demonstrate that the failure of the coated metal was due to a breach of the warranty stated herein.
- G. MCCA's exclusive liability under this warranty, or otherwise, will be limited to refinishing, repairing or replacing in situ, at MCCA's sole option, the defective coated metal. The warranty on any refinished, repaired or replaced coated metal supplied hereunder shall be for the remainder of the warranty period applicable to the originally coated metal. All warranty work will be performed by a company or contractor selected by MCCA. Color variance between replacement or repainted product and original shall not be indicative of a defect.
- H. Claims under the warranty must be made to MCCA in writing within thirty (30) days after discovery of the defective coating and MCCA must be given a reasonable opportunity to inspect the coated metal claimed to be defective.

**FLUOROCARBON COATING WARRANTY
THIRTY YEAR**

- I. MCCA reserves the right to terminate this warranty at any time upon thirty (30) days advance written notice, except with respect to any coated metal which has already been shipped to Customer.
- J. All records and samples Customer is required to prepare and maintain under the terms of this warranty shall be retained by Customer for the warranty period applicable to the coated metal, and in the event of a claim hereunder, MCCA shall have the right to inspect such records and samples,
- K. All notices under or pursuant to this agreement shall be in writing in English and sent by registered or certified mail, postage prepaid, return receipt requested to:

Mitsubishi Chemical Composites America, Inc.
ALPOLIC Division
Customer Service
401 Volvo Parkway
Chesapeake, VA 23320

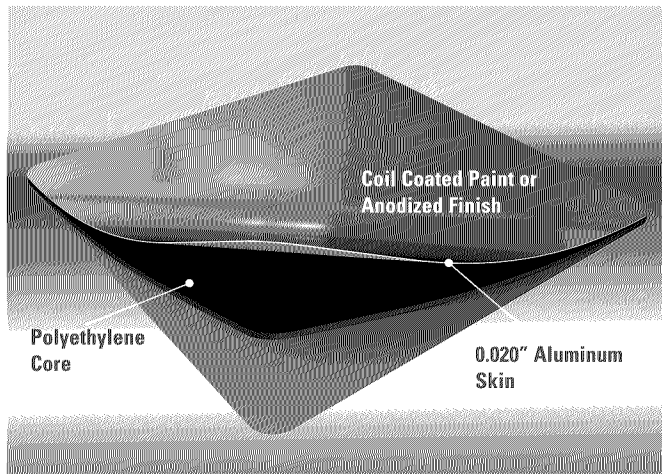
ALL SUCH NOTICES DEPOSITED IN THE U.S. MAIL AS SET FORTH ABOVE SHALL BE CONSIDERED SERVED WHEN SO DEPOSITED.

- L. To terms or conditions other than those stated herein and no agreement or understanding, oral or written, in any way purporting to modify this warranty shall be binding on MCCA unless made in writing and signed by its authorized representatives.
- M. Except as set forth herein, MCCA makes no other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, with respect to the product.

Accepted By:

MITSUBISHI CHEMICAL COMPOSITES AMERICA, INC.

Date



ALUCOBOND PE

Alucobond® PE consists of two sheets of smooth 0.020" nominal aluminum thermobonded to a polyethylene core in a continuous process. Alucobond® PE offers the proven product properties of the Alucobond® family, such as flatness, formability, resistance to wear and simple processing. The superb properties of this material boost one's inspiration and offer architects a wide range of lengths, widths and a rainbow of consistent color and finish options.

PRODUCT DESCRIPTION

Material Composition

- › Aluminum interior and exterior facings in 0.020" nominal thickness to ensure flatness
- › Polyethylene (PE) core available in 3mm, 4mm and 6mm nominal thickness

Sheet Widths

- › Standard coil coated widths include 50" and 62"
- › Standard anodized widths include 62"
- › Custom width 40"

Sheet Lengths

- › Standard lengths include 146" and 196"
- › Custom lengths for coil coating up to a maximum of 360"
- › Custom lengths for anodized up to a maximum of 216"

Minimum Bending Radius

- › The minimum bending radius of Alucobond PE without routing the interior skin is 15 times the thickness of the material

FIRE TESTING

UL-94

- › In a test of 6mm Alucobond PE material, all test criteria were passed, resulting in a 94 V-0 rating for Alucobond material

ASTM E-108, Modified

- › This test impinges a gas flame on a vertically erected panel with a typical construction joint to simulate an exterior installation. In tests of both 4mm and 6 mm Alucobond material, the basic 15 minute test objective was exceeded. Neither of the material thickness contributed to vertical or horizontal flame spread and no significant outgassing was observed

TECHNICAL SUMMARY

Temperature Resistance

- › Withstands environmental temperature changes from -55°F to +175°F
- › Coefficient of linear expansion is governed by the aluminum sheet

Technical Properties

	3mm	4mm	6mm
› Nominal Thickness:			
› Nominal Weight:	0.92 lb/ft ²	1.12 lb/ft ²	1.49 lb/ft ²
› Moment of Inertia:	.000108 in ⁴ /in	.000212 in ⁴ /in	.000525 in ⁴ /in
› Section Modulus:	.00196 in ³ /in	.00275 in ³ /in	.00432 in ³ /in
› Rigidity:	1091 lb-in ² /in	2143 lb-in ² /in	5299 lb-in ² /in

Sustainability Design

- › LEED 3
- › LEED v4
 - LCA Industry Standard
 - EPD Industry Standard



Accepted Code Evaluation Reports

- › 1. ICC-ES
- › 2. Florida Product Approval
- › 3. Miami-Dade County NOA
- › 4. City of Los Angeles

MANUFACTURING

Manufacturing Location

- › Alucobond PE is currently manufactured in Benton, Kentucky USA

To download PDF or AutoCAD details and specifications, visit our website at www.alucobondusa.com.

Information contained herein, or related to, is intended for use at one's own discretion. Such information is believed to be reliable, but 3A Composites shall have no responsibility or liability for results obtained or damages resulting from such use. 3A Composites USA, Inc. does not make any warranties, expressed or implied.

ENGINEERING PROPERTIES FOR ALUCOBOND® PE MATERIAL

Standard Test Method*	Description	Category	3mm	4mm	6mm
ASTM D-635	Rate of Burning	Fire Performance Properties	—	CLASSIFIED CC1	—
ASTM D-1929	Ignition Temperature-Self	Fire Performance Properties	—	716°F	—
ASTM D-1929	Ignition Temperature-Flash	Fire Performance Properties	—	716°F	—
ASTM E-84	Surface Burning Characteristics (Flame Spread)	Fire Performance Properties	0	5	5
ASTM E-84	Surface Burning Characteristics (Smoke Development)	Fire Performance Properties	0	0	5
ASTM E-162	Surface Flammability Using Radiant Energy Source	Fire Performance Properties	0	0	0
ASTM C-365	Flatwise Compression Strength	Mechanical Properties	—	6277 psi	—
ASTM C-393	Flexural Stiffness	Mechanical Properties	1335 lbs-in ²	2566 lbs-in ²	4387 lbs-in ²
ASTM D-297	Flatwise Tensile Strength	Mechanical Properties	1972 psi	1625 psi	1448 psi
ASTM D-790	Flexural Strength	Mechanical Properties	18,350 psi	14,510 psi	10,490 psi
ASTM D-790	Flexural Modulus	Mechanical Properties	1695 ksi	1660 ksi	1525 ksi
ASTM D-638	Modulus of Elasticity	Mechanical Properties	1.98 psi x 10 ⁶	1.38 psi x 10 ⁶	0.87 psi x 10 ⁶
ASTM D-638	Elongation @ Yield	Mechanical Properties	5.6%	8.8%	10.9%
ASTM D-638	Tensile Strength (Ultimate)	Mechanical Properties	7820 psi	6400 psi	4590 psi
ASTM D-638	Tensile Yield	Mechanical Properties	7820 psi	5300 psi	4590 psi
ASTM C-177	Thermal Conductivity	Thermal Properties	2.86 Btu-in/hr ft ² °F	3.21 Btu-in/hr ft ² °F	2.46 Btu-in/hr ft ² °F
ASTM C-177	Thermal Resistance	Thermal Properties	0.0412 hr ft ² °F/Btu	0.0489 hr ft ² °F/Btu	0.096 hr ft ² °F/Btu
ASTM C-177	Thermal Conductance	Thermal Properties	24.3 Btu/hr ft ² °F	20.5 Btu/hr ft ² °F	10.5 Btu/hr ft ² °F
ASTM D-648	Deflection Temperature - Perpendicular	Thermal Properties	—	327°F	—
ASTM D-648	Deflection Temperature	Thermal Properties	>380°F	380°F	>450°F
ASTM C-273	Shear Test in Flatwise Plane	Bond Integrity Properties	990 psi	920 psi	890 psi
ASTM C-297	Tensile Bond Strength Test in Flatwise Plane	Bond Integrity Properties	1972 psi	1625 psi	1448 psi
ASTM D-1781	Bond Integrity	Bond Integrity Properties	—	172.38 N mm/mm	177.31 N mm/mm
ASTM E-90	Sound Transmission (STC)	Acoustical Properties	25	28	28
ASTM C-272	Water Absorption	Physical Properties	Nil	Nil	0.02%
ASTM D-696	Coefficient of Linear Thermal Expansion	Physical Properties	1.31 x 10 ⁻⁵ in/in °F	1.19 x 10 ⁻⁵ in/in °F	1.235 x 10 ⁻⁵ in/in °F

*The ASTM (American Society for Testing and Materials) Standard Test Method defines the way a test is performed and the precision of the result. The test method does not define pass/fail criteria. The result of the test is used to assess compliance with a Standard Specification.

800.626.3365

www.alucobondusa.com

**3A Composites USA, Inc.
Alucobond® Aluminum Composite Material
Warranty Information**



Alucobond® PE and Alucobond® PLUS have a five year warranty against manufacturing / workmanship defects.

Paint finish warranties may be available for Alucobond PE and Alucobond PLUS. When a paint finish warranty is desired it must be requested at the time of the quotation. A paint finish warranty requested only after the Alucobond has shipped from the 3A Composites manufacturing plant is not available. Paint finish warranties are site specific with conditions that vary depending upon the location of the project and the type of paint used. There is not a standard warranty.

ALUCOBOND®

General data, facts & figures

Reynobond® ACM Technical Overview

Property	Units	RB120PE-3 mm	RB160PE-4 mm	RB240PE-6 mm	RB160FR-4 mm	Reynobond with KEVLAR®	
Thickness	Inches mm	0.118 3.0	0.157 4.0	0.236 6.0	0.157 4.0	0.157 4.0	
Weight	lb/ft ² Kg/m ²	0.94 4.59	1.12 5.47	1.51 7.37	1.53 7.48	1.10 5.37	
BOND INTEGRITY	Min. Bond Strength ASTM D1781	in-lb/in Nm/m	40 178	40 178	40 178	22.5 100	40 178
	Flatwise Shear ASTM D1002	lb/in ² Mpa	1,297 8.94	1,221 8.42	2,055 14.17	928 6.4	735 5.07
Allowable Bending Stress (1)	lb/in ² Mpa	11,500 79.3	11,500 79.3	11,500 79.3	11,500 79.3	11,500 79.3	
Coefficient of Expansion ASTM E228	in/in/F mm/mm/C	1.31x10 ⁻⁵ 2.36x10 ⁻⁵	1.31x10 ⁻⁵ 2.36x10 ⁻⁵	1.31x10 ⁻⁵ 2.36x10 ⁻⁵	1.31x10 ⁻⁵ 2.36x10 ⁻⁵	1.31x10 ⁻⁵ 2.36x10 ⁻⁵	
Stiffness (EI)	lb in ² /in Mpa cm ⁴ /m	807 9.1x10 ⁹	1,140 12.8x10 ⁹	1,896 21.4x10 ⁹	1,262 14.3x10 ⁹	776 8.7x10 ⁹	
Flexural Modulus Aged per ASTM C393 (2)	lb/in ² Mpa	8.3x10 ⁶ 57.2x10 ³	6.0x10 ⁶ 41.4x10 ³	4.0x10 ⁶ 27.6x10 ³	6.7x10 ⁶ 46.2x10 ³	4.08x10 ⁶ 28.2x10 ³	
Moment of Inertia	in ⁴ /in cm ⁴ /m	0.97x10 ⁻⁴ 0.159	1.89x10 ⁻⁴ 0.310	4.58x10 ⁻⁴ 0.751	1.89x10 ⁻⁴ 0.310	1.89x10 ⁻⁴ 0.310	
Section Modulus	in ³ /in cm ³ /m	1.65x10 ⁻³ 1.065	2.41x10 ⁻³ 1.555	3.88x10 ⁻³ 2.503	2.41x10 ⁻³ 1.555	2.41x10 ⁻³ 1.555	
Tensile Yield ASTM D638	lb/in ² Mpa	8,300 57.23	6,405 44.16	5,314 36.64	6,367 43.90	15,700 108.25	
Flatwise Tensile ASTM C297	lb/in ² Mpa	1,483 10.22	1,371 9.45	1,099 7.58	961 6.62	513 3.53	

(1) Allowable stress may be increased by 33% for wind load.

(2) Reynobond with KEVLAR® flex modulus fabric side up.

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Paint Finish Quick Specification Reference

	CW 500/CW 500XL	DURAGLOSS® 5000	DURAGLOSS® 3000	CORAFロン®	FLUOROBRITE™	COLORWELD® 100
Warranty	30 yrs.	15 yrs.	10 yrs.	20 yrs.	5 yrs.	5 yrs.
Resin Type	70% PVDF	Modified Polyester	Modified Polyester	FEVE	FEVE	Polyester
UV Performance	****	****	***	***	**	*
Gloss Range	20% – 35%	25% – 35%	20% – 80%	20% – 35%	20% – 80%	20% – 80%
Colors	Opagues Metallics	Opagues Metallics	Opagues Metallics Bright Colors	Opagues Metallics	Bright Colors	Opagues Metallics Bright Colors
Economics	\$\$\$\$	\$\$\$	\$\$	\$\$\$\$\$	\$\$\$\$\$	\$

**Safety/Class A Rating
Per ASTM E84**

	Flame Spread	Smoke Developed
Reynobond PE w/o Joint	PASS* CLASS A	PASS* CLASS A
Reynobond PE w/ Joint	PASS* CLASS A	PASS* CLASS A
Reynobond FR w/ Joint	PASS* CLASS A	PASS* CLASS A
Reynobond with KEVLAR®	PASS* CLASS A	PASS* CLASS A

*Flame spread ≤ 25, smoke developed ≤ 450.

**Building Code
Recognition**

Intertek Design Listing	No. AAP/CWP 30-01
New York City M.E.A.	MEA 75-91-M, MEA 390-99-M
Los Angeles Research Report	Pending
State of Wisconsin Approval	No. 990033-1
Miami-Dade N.O.A.	No. 06-1025.03 and No. 09-0625.01
Florida Product Approval	FL10220 Validated
Canadian Fire Test	CAN S101
Canadian Fire Test	CAN S102
Canadian Fire Test	CAN S134 Pending

Chicago • Canada • United Kingdom • Singapore
Australia • New Zealand • Malaysia • France
Germany • China • Hong Kong • Poland • Israel

Product Availability

	Thickness	Standard Widths**	Standard Lengths*
RB120PE-3 mm	3 mm (0.118")	Consult for program widths including: 1000 mm (39.37") 1220 mm (48") 1270 mm (50") 1295 mm (51") 1524 mm (60") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
RB160PE-4 mm	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
RB240PE-6 mm	6 mm (0.236")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
RB160FR-4 mm	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
Reynobond with KEVLAR®	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")

*Consult for standard lengths. **Consult for color & finish availability.



**LIMITED WARRANTY AND REMEDY
PVDF COIL COATED FINISHES**

ARCONIC ARCHITECTURAL PRODUCTS LLC

A wholly owned subsidiary of Arconic Inc.

REYNOBOND® ALUMINUM COMPOSITE MATERIAL, REYNOLUX® PROFILE PRODUCTS, AND FLAT SHEET PRODUCTS

Coated with Colorweld® 300, Colorweld® 500, Colorweld® 500XL, Colorweld® 500 Mica

This limited warranty ("warranty") is issued by Arconic Architectural Products LLC ("Arconic") to the property owner (the "owner") identified below and applies to the finish on Arconic REYNOBOND aluminum composite material, profiled products, flat sheet products and coil products coated with either Colorweld 300, Colorweld 500, Colorweld 500XL or Colorweld 500 Mica coatings (the "products") and installed at the property (the "property") identified below.

PROPERTY OWNER _____

PROPERTY ADDRESS _____

CITY _____ STATE (OR COUNTY) _____ ZIP _____

DATE INSTALLED _____

CUSTOMER'S NAME _____

CUSTOMER'S ADDRESS _____

CITY _____ STATE (OR COUNTY) _____ ZIP _____

CUSTOMER'S SIGNATURE _____

PRODUCTS: Reynobond ACM Reynolux Profile Products Flat Sheet

SUBSTRATE: Aluminum

PRODUCTS: Colorweld 300 Colorweld 500 Colorweld 500 Mica Colorweld 500 XL

Warranty coverage is subject to the terms, conditions, limitations, remedies and legal rights set forth below:

1. The warranty period shall commence six (6) months from Arconic's initial shipment of the product, or upon substantial completion of the job, whichever occurs first, and the duration of this warranty (the "warranty period") shall be in accordance with the warranty table shown below in this document and shall apply worldwide.
2. The warranty period applicable to any refinished, repaired or replaced products shall be for the remaining un-expired portion of the original warranty period.
3. Subject to the terms and conditions set forth in this warranty, Arconic warrants that during the warranty period the finish on products will not peel, check, or crack (except for such slight crazing or cracking as may occur on normal roll-formed edges or break bends at the time of roll forming or other fabrication of pre-painted panels, sheet or coil and which is accepted in the industry as standard or peeling due to corrosion of the metal substrate) as a direct result of manufacturing defects.
4. Arconic warrants that, in the absence of ponding or standing water, the finish on products will not chalk in excess of a numerical rating of 8 during the warranty periods explained in the chart shown below when measured in accordance with the standard procedures specified in ASTM D-4214, Method A. Notwithstanding the foregoing, Arconic makes no warranty against chalking for any embossed products that are installed 46° or more from the vertical.
5. Arconic warrants that, in the absence of ponding or standing water, the finish on products will not fade or change during the warranty periods explained in the accompanying chart in excess of 5Δ E units, when measured according to ASTM D-2244-02, paragraph 6.2.2 CIEL*a*b*10°. Measurements are taken on exposed paint surfaces which have been sufficiently cleaned of external deposits and chalk. Notwithstanding the foregoing, Arconic makes no warranty against fading or color change for any embossed products that are installed 46° or more from the vertical.
6. This warranty covers only the particular finish defects described in this certificate and only if they arise during normal use and service. It does not cover finish defects attributable to causes or occurrences beyond Arconic's control and unrelated to the manufacturing process, including but not limited to, mechanical abrasion or mechanical damage, faulty or improper fabrication or installation, normal weathering and aging, exposure to corrosive atmosphere (such as those contaminated with salt spray, acid rain, harmful chemicals or vapors), mildew, unreasonable use, misuse, physical abuse, accidental damage, vandalism, use of incompatible accessories, fire, flood, earthquake, lighting, ice, windstorms, or other acts of God, windborne objects, building settlement or structural failures (including walls and foundations) or the use of harmful cleaning compounds, intermittent or continual submersion in water or any other liquid or solid material, deliberate damage, improper handling by erectors, or any other physical damage. Arconic recommends that there be a systematic fresh water rinse maintenance program in effect in areas of high salt concentration (such as adjacent to the seashore and/or industrial atmospheres) so as to prevent the accumulation of concentrated salt deposits. It does not cover the normal weathering or aging of any exposed core material.
7. This warranty does not cover damage to the coating that occurs prior to installation of the product, including, without limitation, contamination occurring during shipment of the product to the jobsite or during storage at the jobsite. Forming REYNOBOND® panels at temperatures below an ambient temperature of 60°F (16°C) may adversely affect the appearance and performance of the Colorweld finish.

8. This warranty applies only to finish on products with Arconic's standard substrate metals (i.e., galvanized steel conforming to the latest issue of ASTM A924 and ASTM A653, G90 Class, or aluminum of either 3105, 3003, 3004, 5005, Alclad 3003 or Alclad 3004 alloy). Unless this warranty is extended to the owner through a separate document signed by an officer of Arconic, it shall not apply if the owner or Arconic's customer requested the use of a substrate metal that is non-standard.
9. Non-uniform color changes that result from unequal exposure to sunlight and/or the elements are not covered by this warranty unless such color change meets the definition of color change as referenced in section 5 above.
10. All claims hereunder must be submitted in writing to: Arconic Architectural Products LLC, P.O. Box 4129 Eastman, GA 31023-4129. This claim must be accompanied by this certificate, fully completed and signed by the customer that furnished the product to the owner or a copy thereof. **IN ORDER TO QUALIFY FOR WARRANTY COVERAGE, ALL CLAIMS MUST BE SUBMITTED WITHIN THIRTY (30) DAYS FROM THE DATE THE DAMAGE OR DEFECT IS FIRST DISCOVERED OR COULD HAVE BEEN DISCOVERED, BUT IN NO EVENT MAY CLAIMS BE SUBMITTED MORE THAN THIRTY (30) DAYS FOLLOWING THE EXPIRATION OF THE WARRANTY PERIOD.**
11. Arconic shall be given a reasonable opportunity to inspect the product claimed to be defective. If after inspection of the product, Arconic determines that the claimed defect is covered by this warranty, Arconic, as its sole option, shall refinish, repair, or replace, the defective product without charge to the owner.
12. In no event does Arconic's warranty cover the cost of labor or sundry materials required to remove and/ or replace any defective product.
13. All warranty work will be performed by Arconic or by a company, customer, contractor, applicator, or distributor selected by Arconic. At no time does this warranty confer upon the claiming party or any other party the right to proceed with repair, replacement or restoration without written notice and agreement by a duly authorized officer of Arconic. Any such work undertaken by the claiming party or any other party shall be for the claiming party's own account and shall result in this warranty becoming null and void. As color variances may occur between replacement or refinished product in comparison with the originally installed product due to normal weathering and aging of the originally installed product, this condition will not be indicative of a defect in either the replacement product or the originally installed product.
14. Arconic reserves the right to discontinue or modify its product lines and coating colors. If the original product or coating color is no longer available, Arconic agrees to use commercially reasonable efforts to substitute a comparable product.
15. **IT IS UNDERSTOOD AND AGREED THAT THE REMEDIES PROVIDED FOR HEREIN FOR THE FINISH OF THE PRODUCT DESCRIBED ABOVE ARE EXCLUSIVE WHETHER FOR BREACH OF EXPRESS WARRANTIES OR OTHERWISE AND SHALL CONSTITUTE THE OWNER'S EXCLUSIVE REMEDY AND ARCONIC'S EXCLUSIVE LIABILITY. IN NO EVENT SHALL ARCONIC BE LIABLE FOR LABOR COSTS, DIRECT, INDIRECT, INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH THE PRODUCT.**
16. **THIS WARRANTY IS THE ONLY EXPRESS WARRANTY EXTENDED BY ARCONIC IN CONNECTION WITH THE PRODUCT, OTHER THAN ARCONIC'S STANDARD COATING WARRANTY, IF ANY, AND THE LIMITED WARRANTY SET OUT IN ARCONIC'S SALES TERMS AND CONDITIONS, FOR THE PRODUCT, AND IT EXCLUDES ALL OTHER WARRANTIES, REPRESENTATIONS OR GUARANTEES, EXPRESS OR IMPLIED, WRITTEN OR ORAL, BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ARCONIC'S AGGREGATE TOTAL CUMULATIVE LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE DOLLAR AMOUNT OF THE PURCHASE PRICE.**
17. Owner is solely responsible for proper selection and installation of Arconic's products. Owner agrees that it will use Arconic products only for their intended uses and according to the specifications and limitations established by Arconic from time to time. Owner shall indemnify, defend and hold Arconic harmless from and against any and all damages arising out of or relating to improper product selection, application, use, misuse, neglect, abuse of products or improper installation or incorporation of products.
18. This warranty is extended only to the owner and is not assignable or transferable. Any such assignment or transfer shall render the warranty null and void.
19. Laws and building and safety codes governing the design and use of Arconic's products, and specifically aluminum composite materials, vary widely. Arconic does not control the selection of product configurations, nor how Arconic's products are fabricated, transformed or otherwise configured or used or how Arconic's products are combined with other materials. Arconic disclaims any responsibility for any of the foregoing and assumes no responsibility therefor. It is the responsibility of its customer, owner, the architect, the general contractor, the installer and the fabricator/transformer, consistent with their roles, to make these determinations in strict conformity to all applicable national, regional, state, provincial and local building codes and regulations and interpretation, including without limitation those relating to building construction, safety and any other applicable statutes. Arconic is dependent upon owner to provide true, accurate and complete information relating to product purchases.
20. This warranty sets forth the entire agreement between the owner and Arconic relating to the characteristics set forth herein of products. This warranty may not be modified or changed except by a written document signed by an officer of Arconic Architectural Products LLC.
21. The sale of Arconic's products hereunder with shipping addresses located in the United States shall be governed by the laws of the State of Delaware, excluding its laws related to choice or conflicts of law. The sale of Arconic products hereunder with shipping addresses located in Canada shall be governed by the laws of Ontario and the federal laws of Canada applicable therein. The United Nations Convention on Contracts for the International Sale of Goods is expressly disclaimed and does not apply to the sale of Seller products. Any and all disputes between the parties that may arise pursuant to this order will be heard and determined before an appropriate arbitrator, federal or state court located in Wilmington, Delaware. The owner hereto acknowledges such court has the jurisdiction to interpret and enforce the provisions herein and/ or an arbitrator's judgment, and the owner and the Customer waives any and all objections that they may have as to personal jurisdiction or venue in any of the above courts.



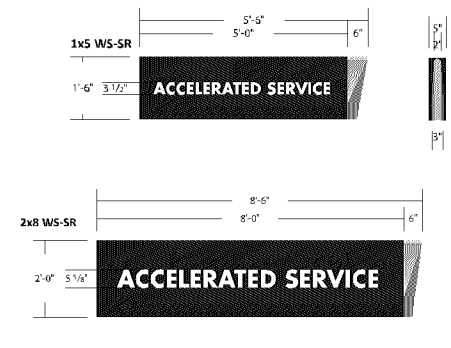
			Type of Environment or Location		
			Residential, Commercial and School Buildings used for habitation distribution centers, hotels, shopping malls, office buildings assembly factories and schools located in rural or residential areas at least 1500 ft. from coastline	Severe Marine Less than 1500 ft. from coastline	Industrial Steel mills, power generating stations, oil fields, oil refineries, ore mines, chemical plants, paper mills, or other unusual environmental exposure
Colorweld® 500 XL	Peel, Check or Crack (in years)		30	25	25
	Color Δ E<5.0 (in years)	Between 20 North and South Latitude	25	15	15
		Above 20 North and below South Latitude	30	25	25
	Chalking >8 Rating (in years)	Between 20 North and South Latitude	25	15	15
		Above 20 North and below South Latitude	30	25	25
Colorweld® 500 and 500 Mica	Peel, Check or Crack (in years)		30	20	No Warranty
	Color Δ E<5.0 (in years)	Between 20 North and South Latitude	20	12	No Warranty
		Above 20 North and below South Latitude	30	20	No Warranty
	Chalking >8 Rating (in years)	Between 20 North and South Latitude	25	12	No Warranty
		Above 20 North and below South Latitude	30	20	No Warranty
Colorweld® 300	Peel, Check or Crack (in years)		20		
	Color Δ E<5.0 / 7.0 Vertical/Horizontal (in years)	Between 20 North and South Latitude	10		
		Above 20 North and below South Latitude	20		
	Chalking Rating >8 / 6 Vertical/Horizontal (in years)	Between 20 North and South Latitude	10		
		Above 20 North and below South Latitude	20		

- Colorweld® 300 finishes are not warrantable for severe marine or industrial application.
- This limited warranty applies only to products sold by Arconic and applied to metal that is used for installations occurring between the latitudes shown above unless the customer and Arconic specifically and in writing agree otherwise prior to Arconic's sale of the product to a coater.
- Applications exposed to salt spray or within 2500 feet of the seacoast, must be maintained by washing with fresh tap water (in accordance with AAMA 610.1-1979) at least annually and documentation of this maintenance provided upon request (Copy of 610.1 provided on request). It is acknowledged that fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements.
- Vertical installations are those measured at least 46° from horizontal.

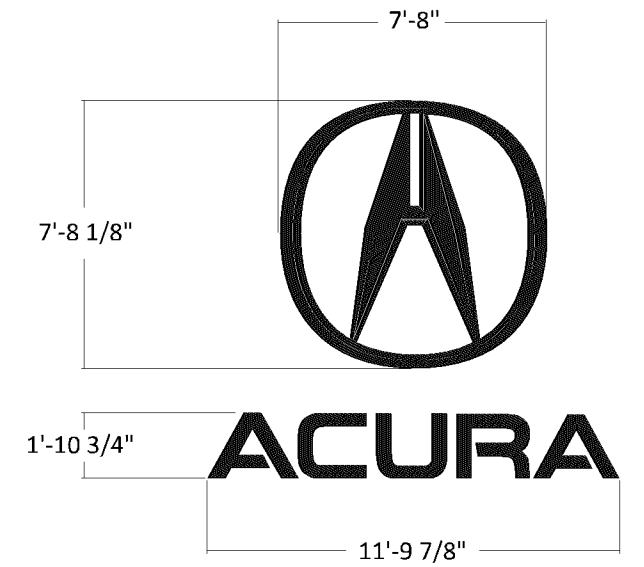
ACURA Sign Family



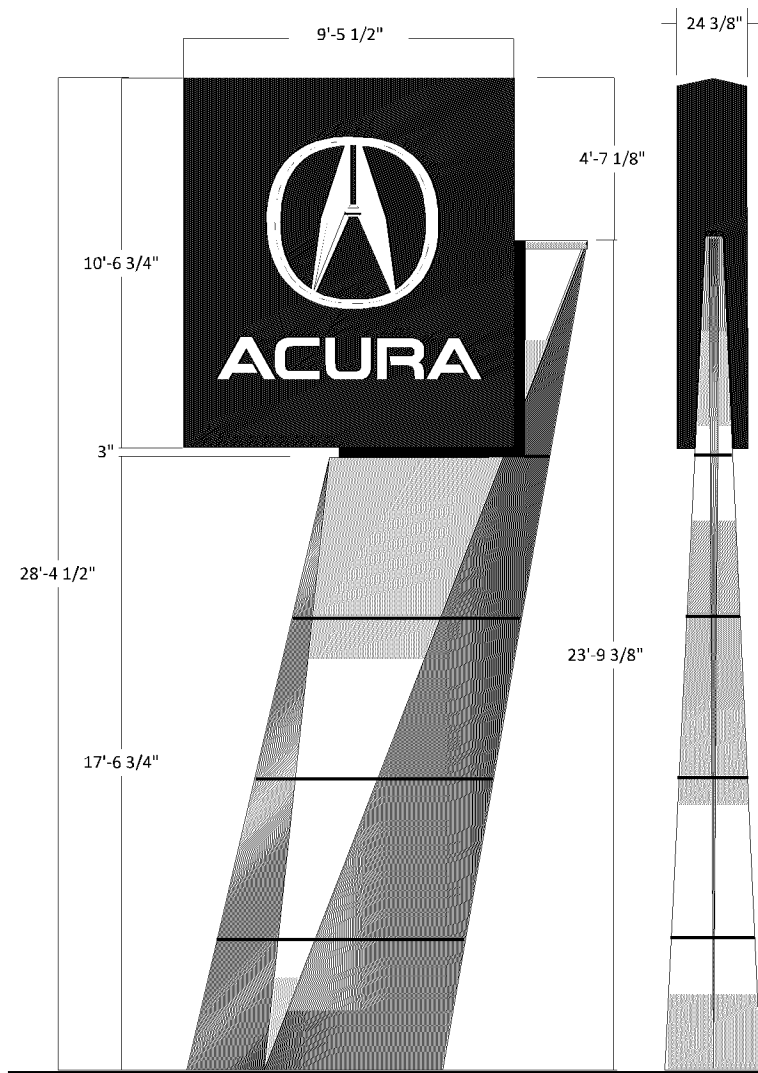
Directionals & Pre-Owned



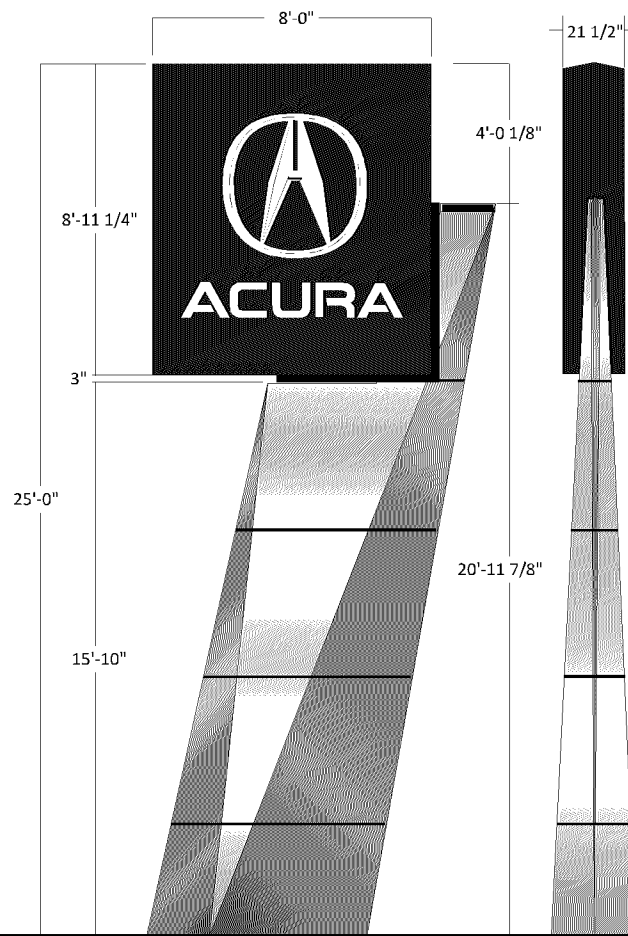
Illuminated Wall Signs



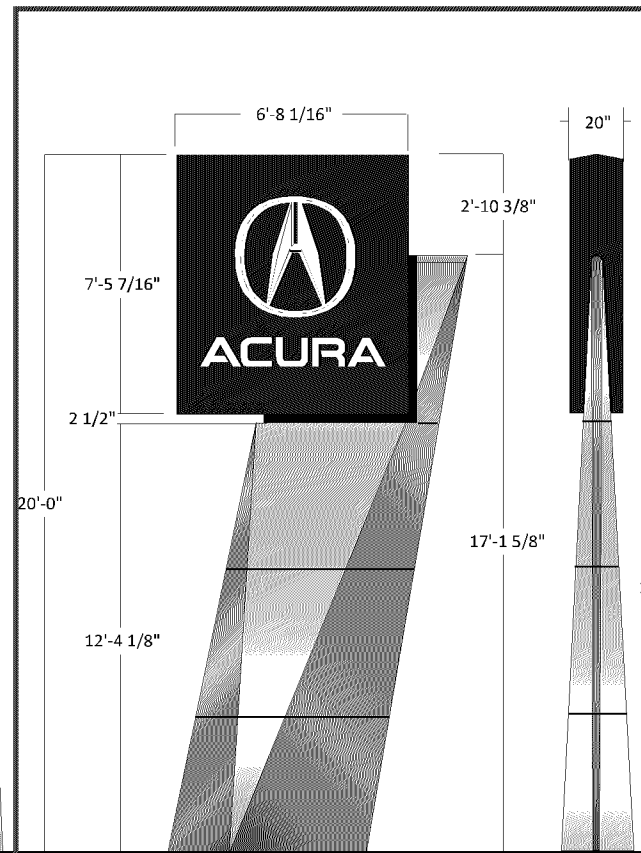
Illuminated Dealership Entrance Icon & Letters
(130 sq.ft.)



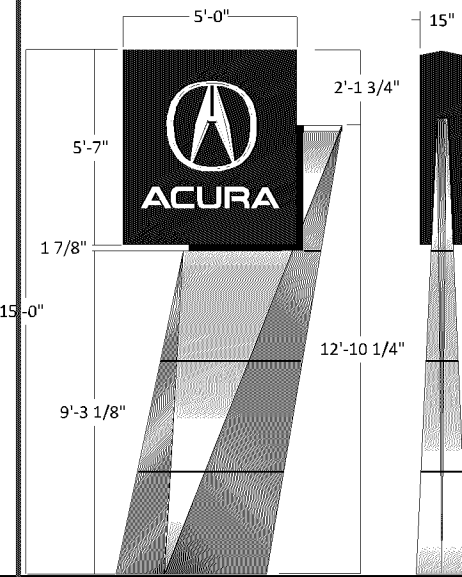
100 Sq Ft Pylon



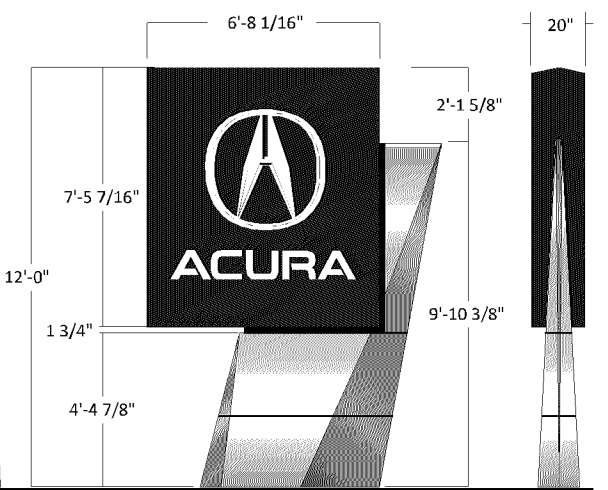
75 Sq Ft Pylon



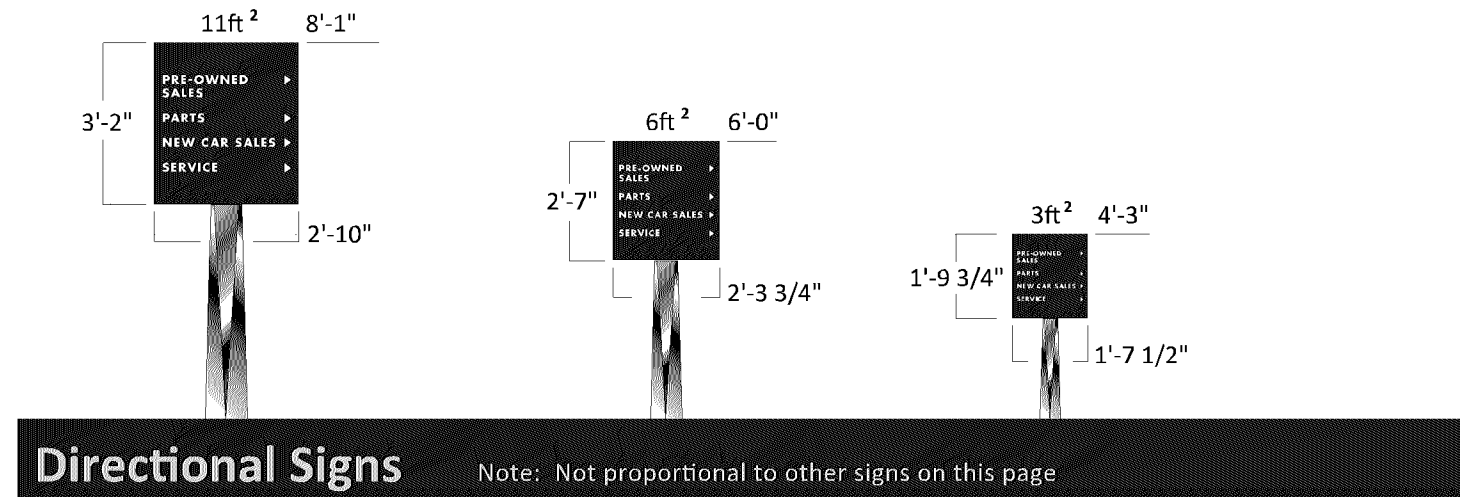
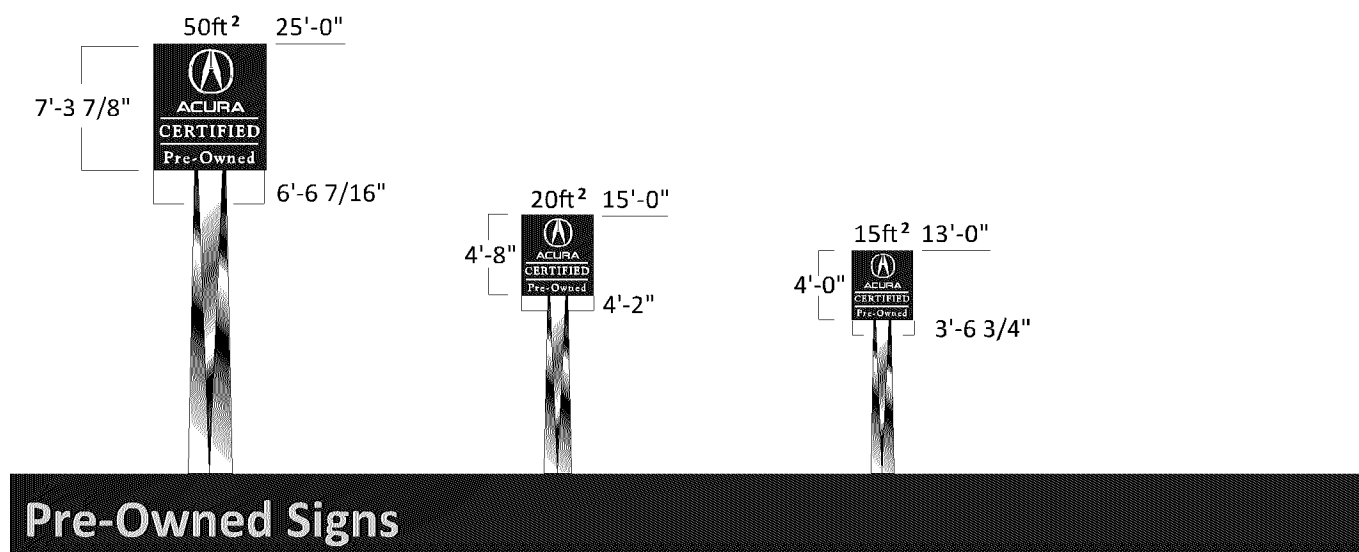
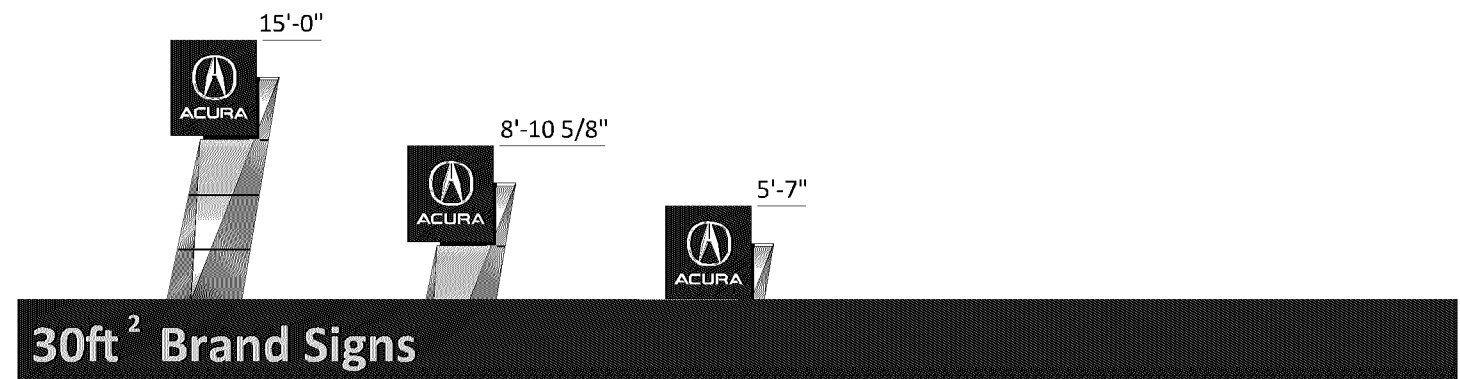
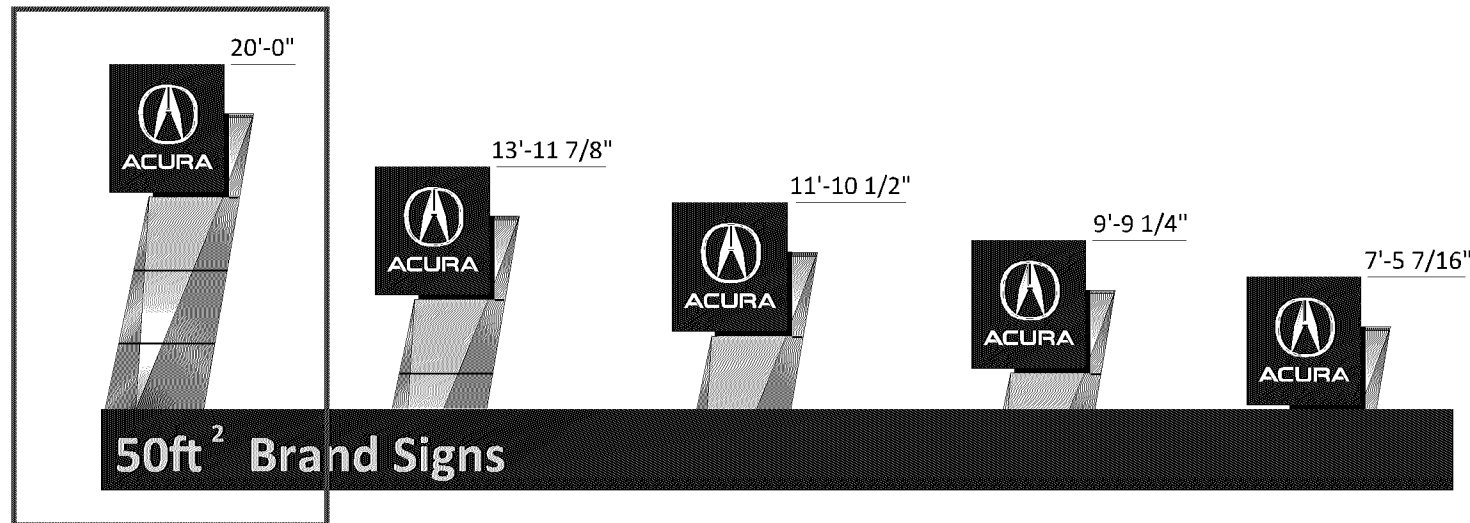
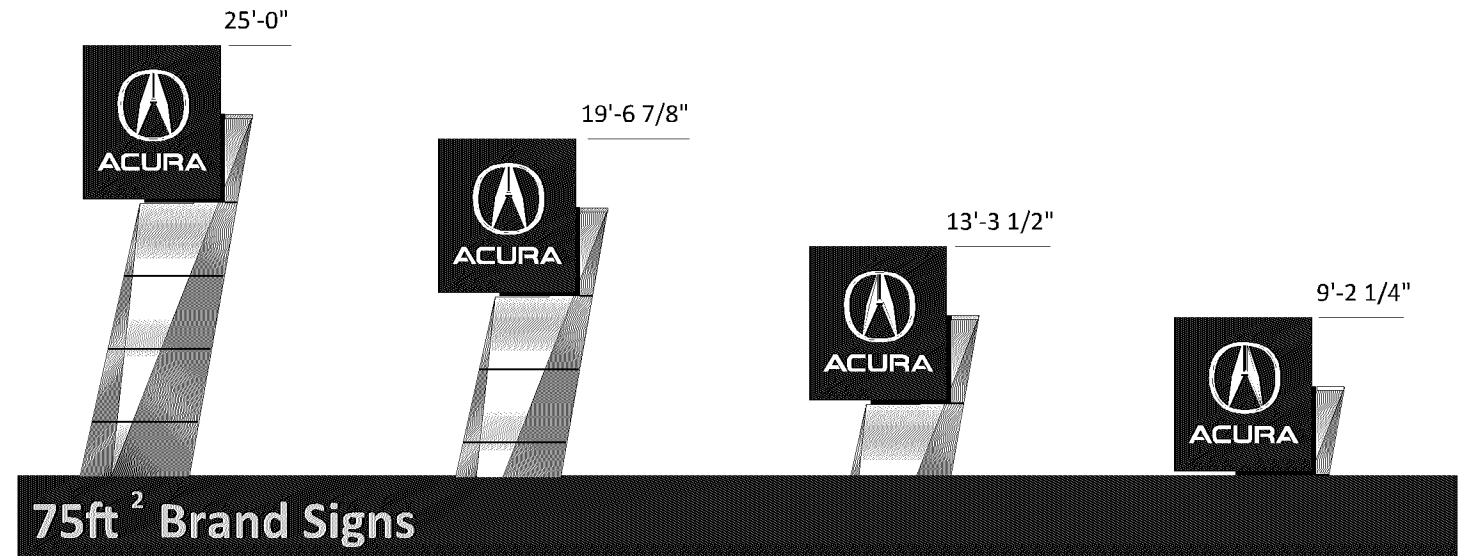
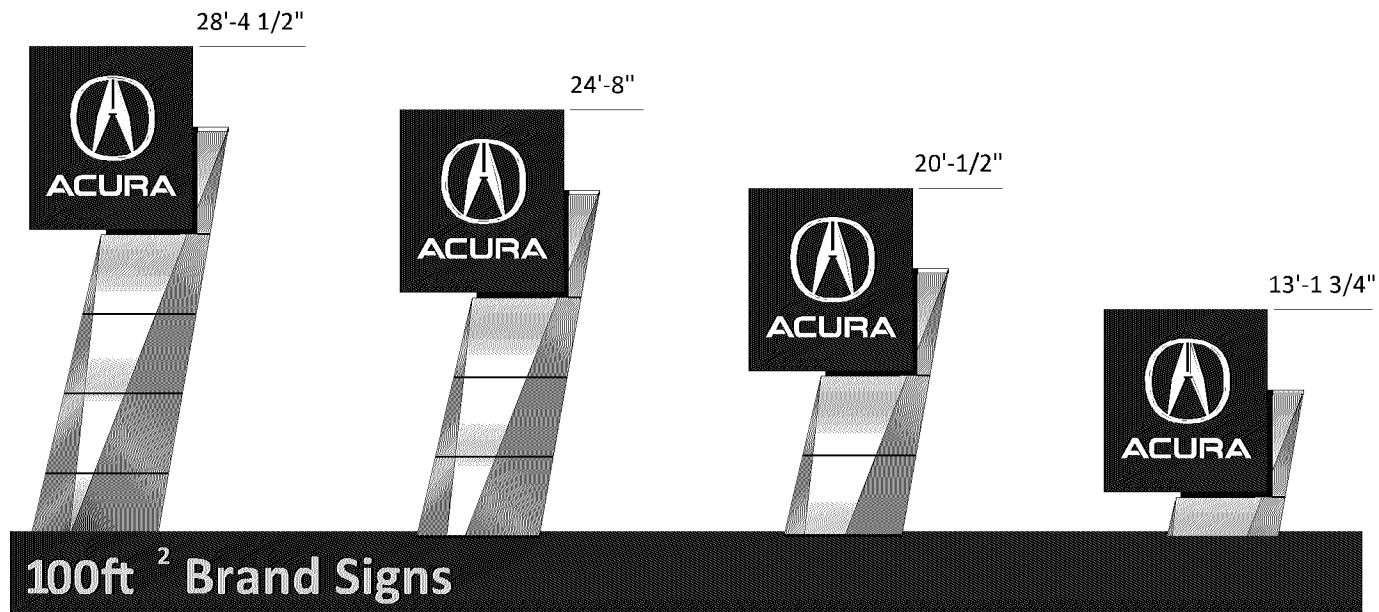
50 Sq Ft Pylon

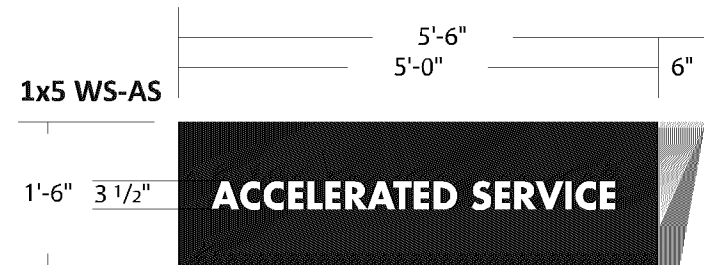


30 Sq Ft Pylon



50 Sq Ft Monument





1x5 Acura S/F Illuminated Wall Sign - Routed Out and Pushed Through



2x8 Acura S/F Illuminated Wall Sign - Routed Out and Pushed Through

Acura Branding Guidelines

Acura logo and ACURA letterset on tower are illuminated.

Acura logo placement as per Pattison Sign Group install drawing.

Available Trademark "ACURA" letters on secondary elevations are 24" or 18".

Standard DEALER NAME letters are 18" upper case. LED illuminated.
The faces are striped so they are blue by day and white at night.
The dealer name letterset is a minimum of 3' from the edge of the elevation.
Installed 12" above building cap.

The dealer name follows DBA guidelines

"SERVICE" letters are 18" all upper case with elongated letter spacing. LED illuminated.
The faces are striped so they are blue by day and white at night.
Installed center above service bay door(s).

"PRE-OWNED" letters are 18' upper case. LED illuminated.

The Acura Brand sign is 100sf @ 28'. If not permitted by City code, various sizes are available.

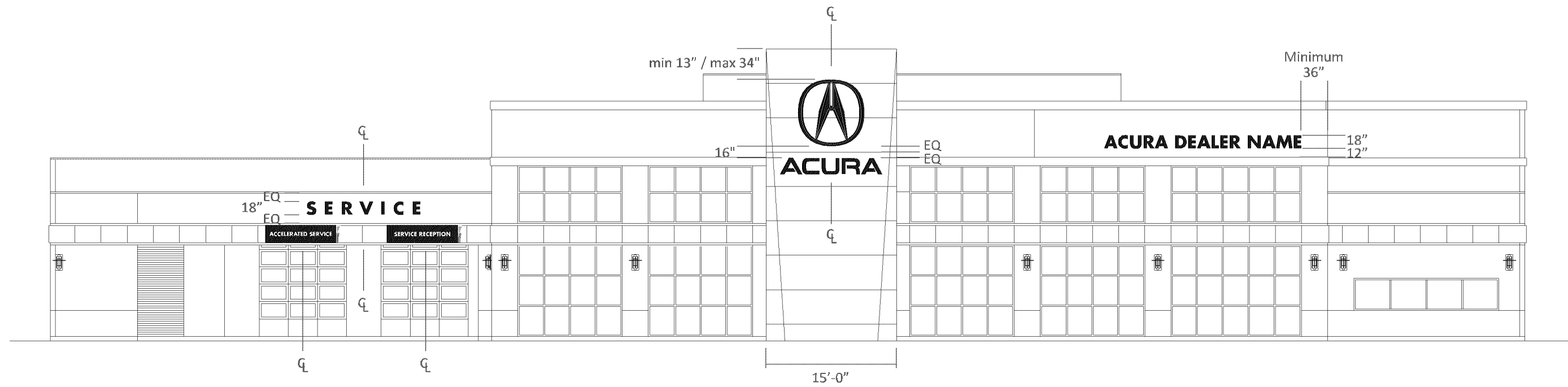
The face of the Acura Brand sign faces the street where the "wing" faces back toward the dealership.

Non-illuminated directional signs are cladded and direct burial.

Acura Certified Pre-Owned ground signs are LED illuminated.

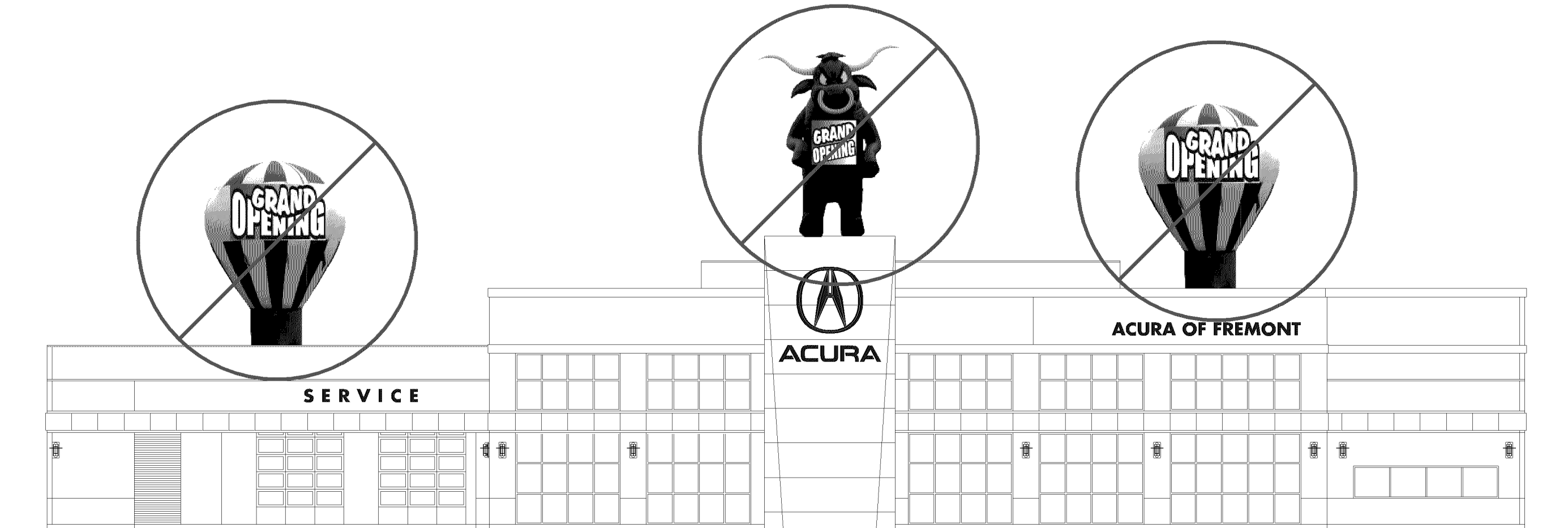
All sign elements need to be approved by Interbrand Design Forum and AHM.

Standard Sign Placement



PERFECT

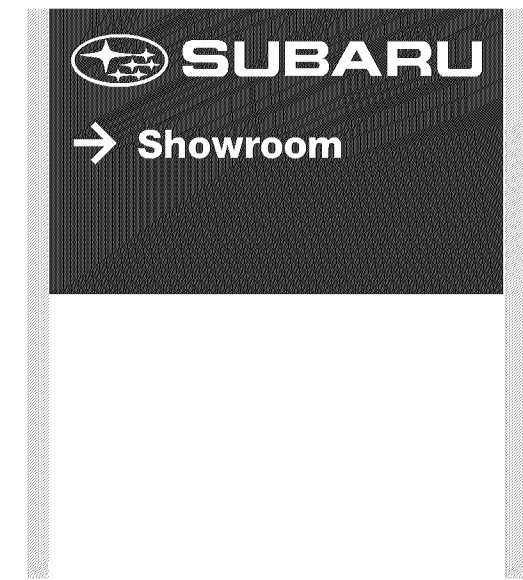
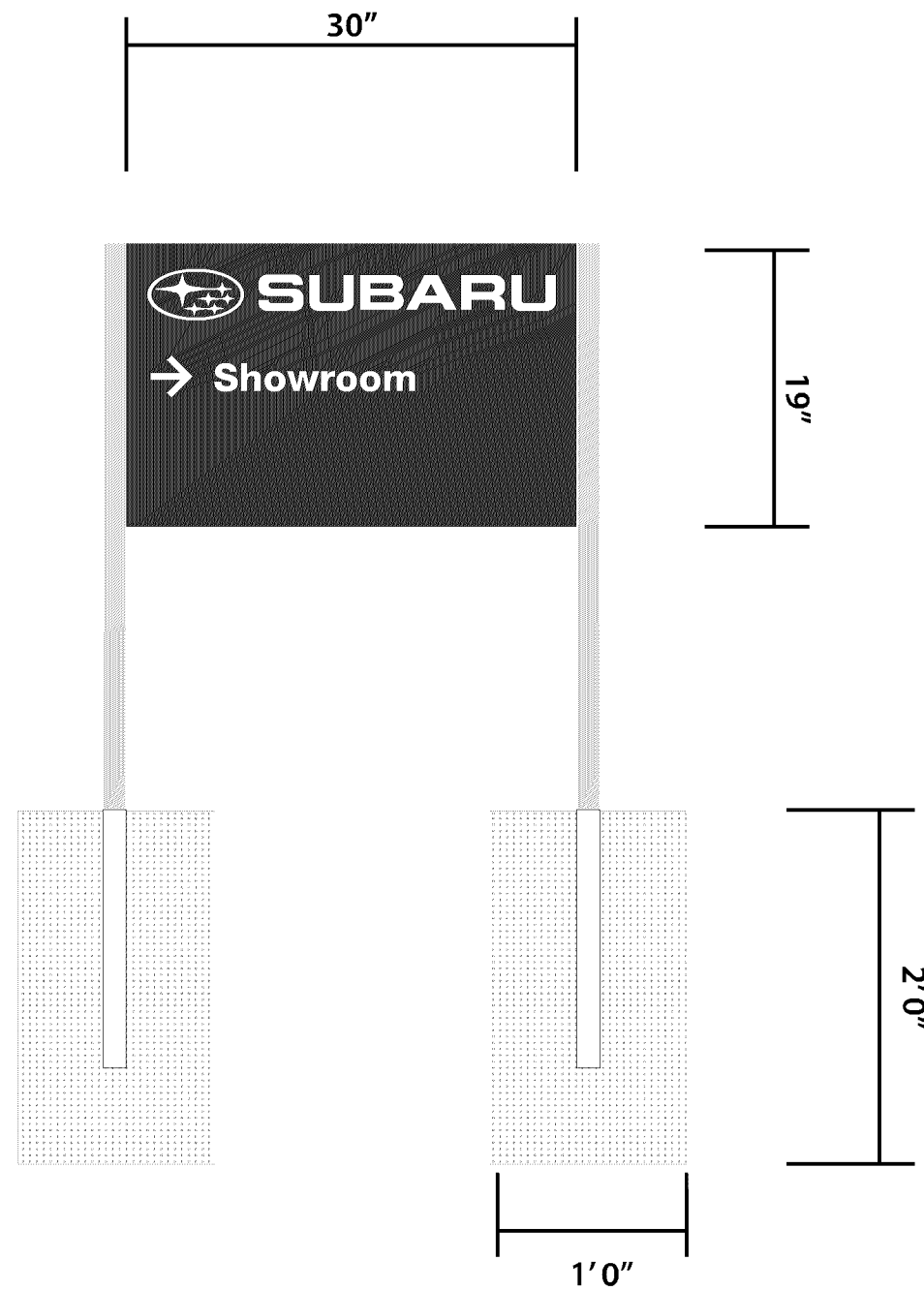
Non-Standard



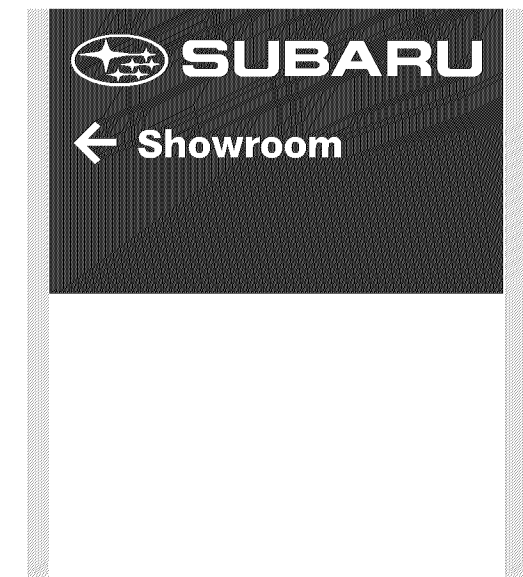
This is not under AHM authority, but wishes that it was!

30" DIRECTIONAL


DIRECTIONAL SIGN 19"H X 30"W
 SINGLE OR DOUBLE SIDED W/ TWIN POLES AND
 WHITE REFLECTIVE GRAPHICS.
 OPTION FOR INTERNALLY ILLUMINATED WITH LIT
 WHITE ACRYLIC GRAPHICS.
 SAMPLE COPY SHOWN; TO VARY PER
 DAELER'S NEEDS



Side A

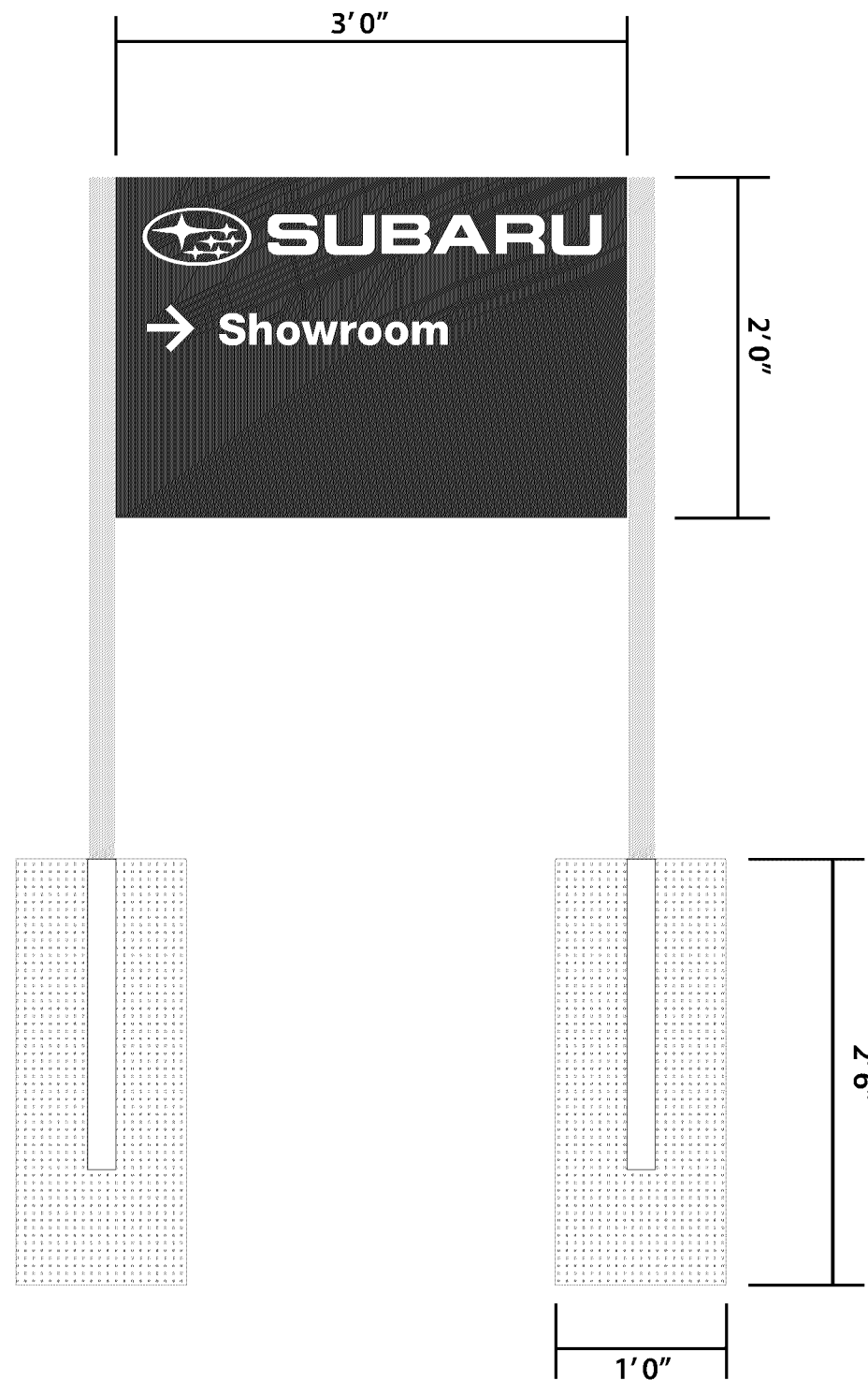


Side B

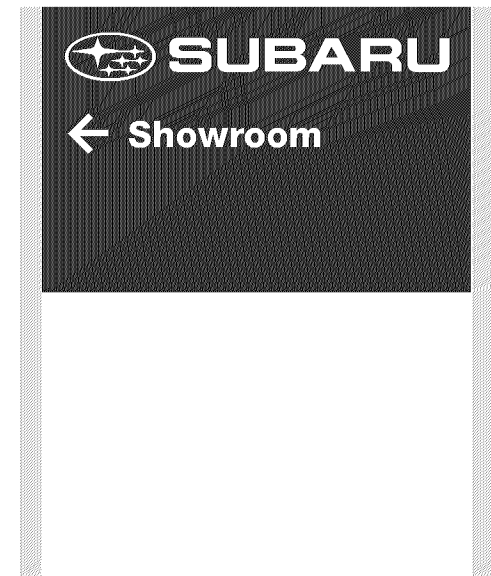
 PHILADELPHIASIGN BRINGING THE WORLD'S BRANDS TO LIFE	TITLE	Subaru	DWG BY	AFR	DATE	12.17.14	DATE	REVISION	BY <small>THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY P.S.C.O. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY P.S.C.O. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.</small>
	ADDRESS	SUB_Regulatories Samples		DWG NUM	B58649				
				SHEET	1				

36" DIRECTIONAL

DIRECTIONAL SIGN 24"H X 36"W
 SINGLE OR DOUBLE SIDED W/ TWIN POLES AND
 WHITE REFLECTIVE GRAPHICS.
 OPTION FOR INTERNALLY ILLUMINATED WITH LIT
 WHITE ACRYLIC GRAPHICS.
 SAMPLE COPY SHOWN; TO VARY PER
 DAELER'S NEEDS



Side A



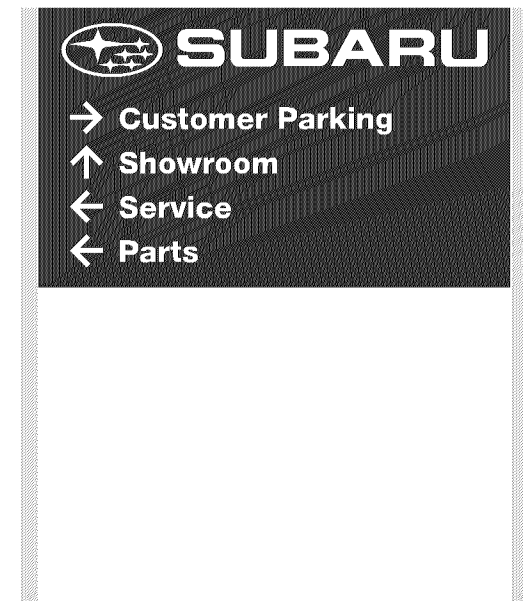
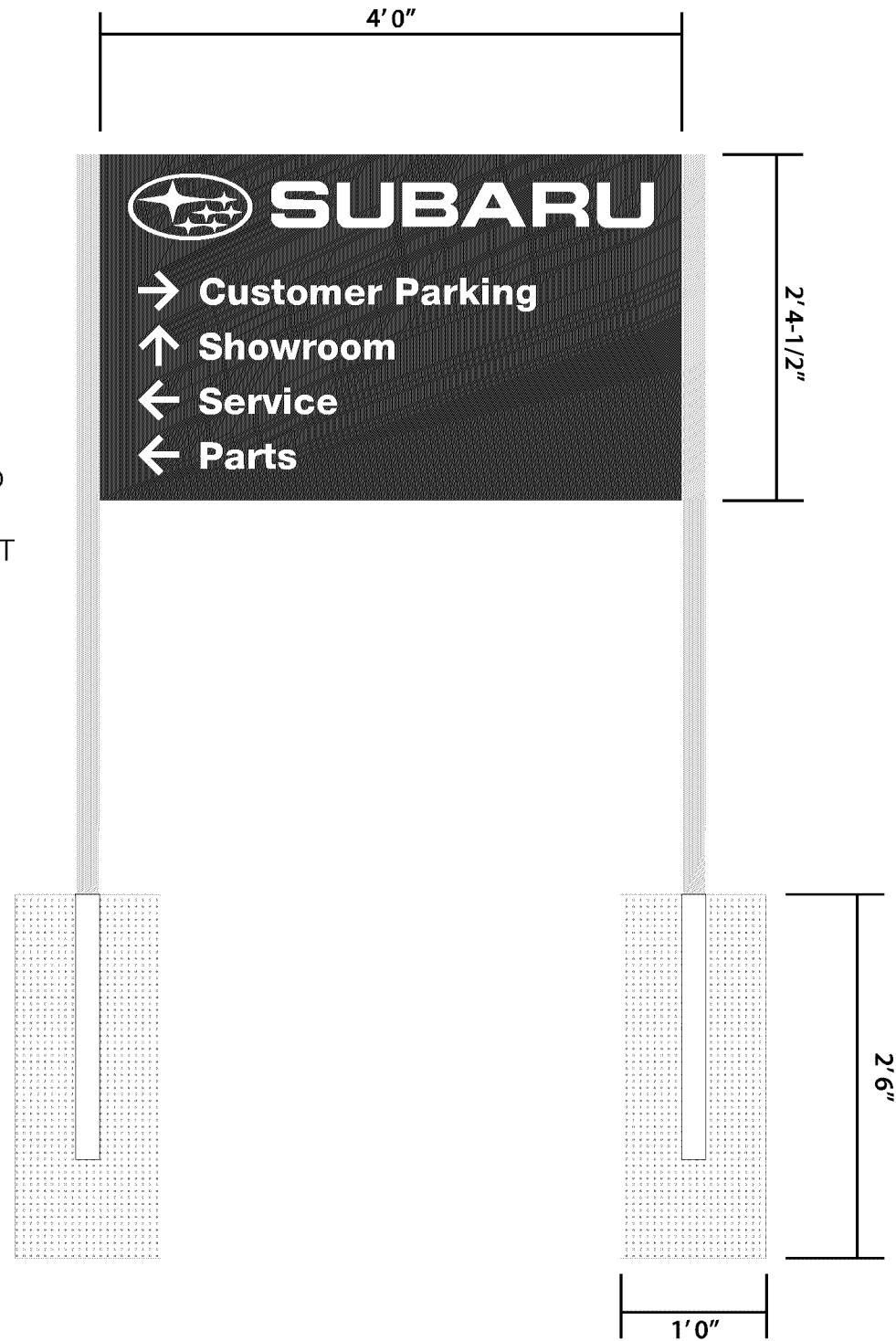
Side B



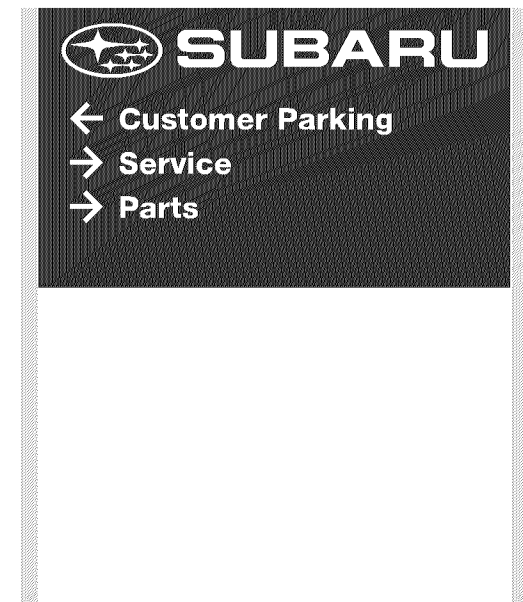
TITLE	Subaru	DWG BY	AFR	DATE	12.17.14	DATE	REVISION	BY	THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY P.S.C.O. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY P.S.C.O. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.
ADDRESS	SUB_Regulatories Samples		DWG NUM	B58649					
			SHEET	2					

48" DIRECTIONAL

DIRECTIONAL SIGN 2' 4-1/2"H X 4' 0"W
 SINGLE OR DOUBLE SIDED W/ TWIN POLES AND
 WHITE REFLECTIVE GRAPHICS.
 OPTION FOR INTERNALLY ILLUMINATED WITH LIT
 WHITE ACRYLIC GRAPHICS.
 SAMPLE COPY SHOWN; TO VARY PER
 DAELER'S NEEDS



Side A



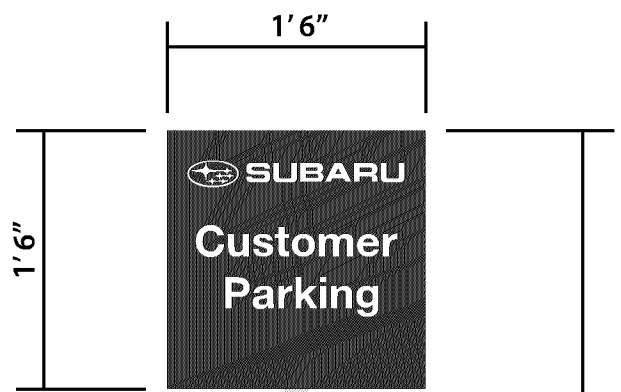
Side B



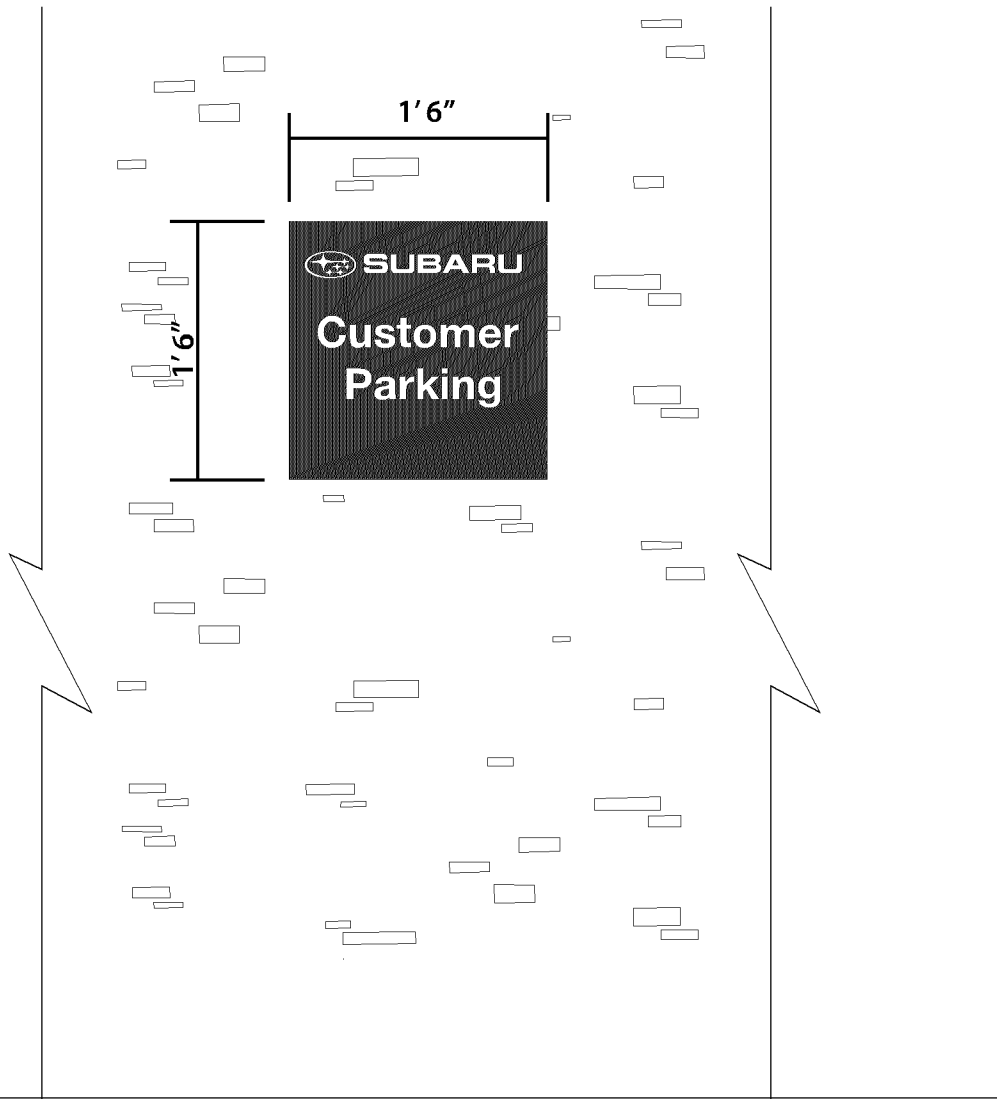
TITLE	Subaru	DWG BY	AFR	DATE	12.17.14
ADDRESS	SUB_Regulatories Samples	DWG NUM	B58649	SHEET	3

DATE	REVISION	BY

THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY P.S.C.O. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY P.S.C.O. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.



INFO BLADE SIGN SIGN 18" H X 18" W X 5' 6" OAH
POLE MOUNTED WITH WHITE REFLECTIVE GRAPHICS
SAMPE COPY: CUSTOMER PARKING



INFO WALL PLAQUE SIGN 18" H X 18"
WALL MOUNTED WITH WHITE REFLECTIVE GRAPHICS
SAMPE COPY: CUSTOMER PARKING



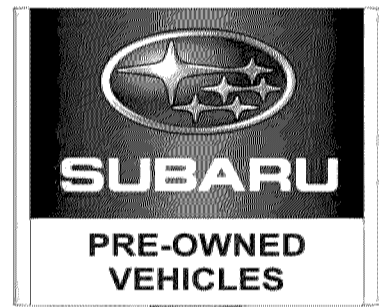
TITLE	Subaru
ADDRESS	SUB_Regulatories Samples

DWG BY	AFR
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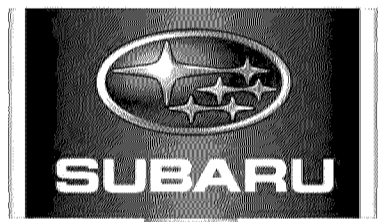
DATE	12.17.14
DWG NUM	B58649
SHEET	4

DATE	REVISION	BY
...		

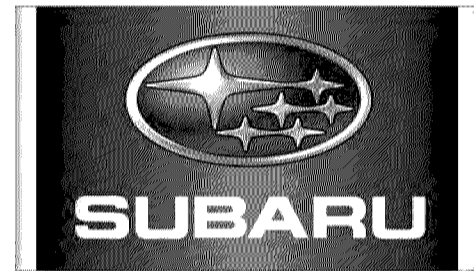
THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY P.S.C.O. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY P.S.C.O. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.



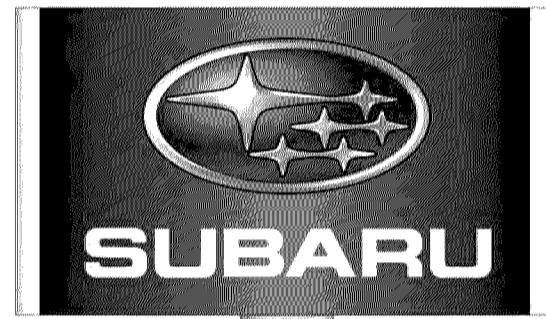
P48
6' 2" H X 7' 7"
X 16' 4" OAH



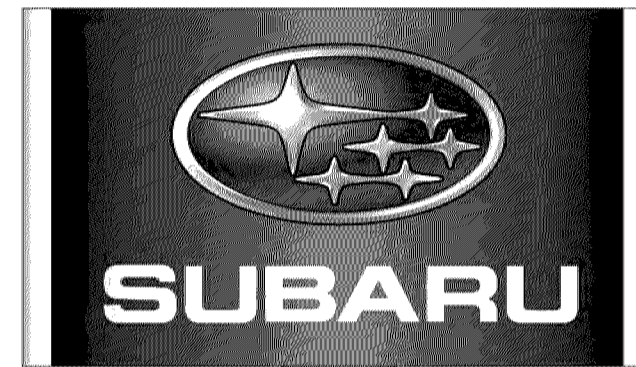
P30
4' 4" H X 7' 7"
X 15' 3" OAH



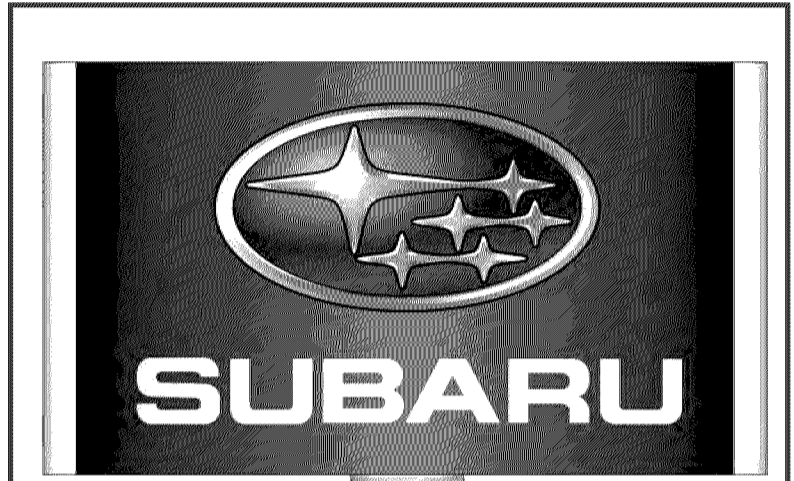
P50
5' 7" H X 9' 9"
X 20' 3" OAH



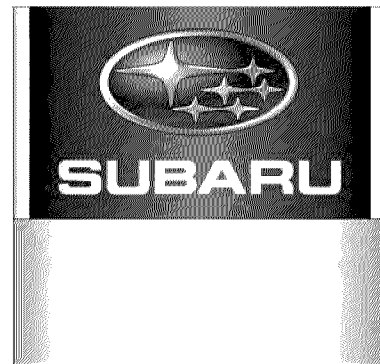
P65
6' 4" H X 11' 2"
X 21' 0" OAH



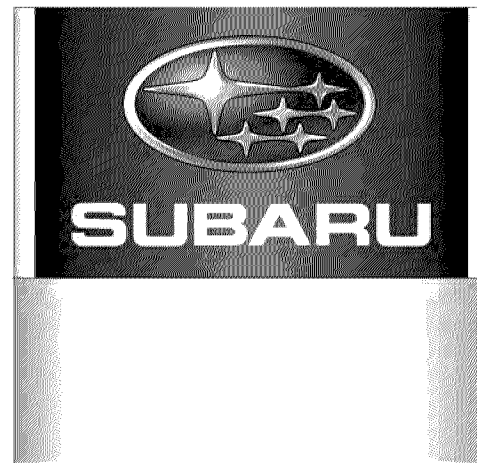
P90
7' 6" H X 13' 1"
X 25' 9" OAH



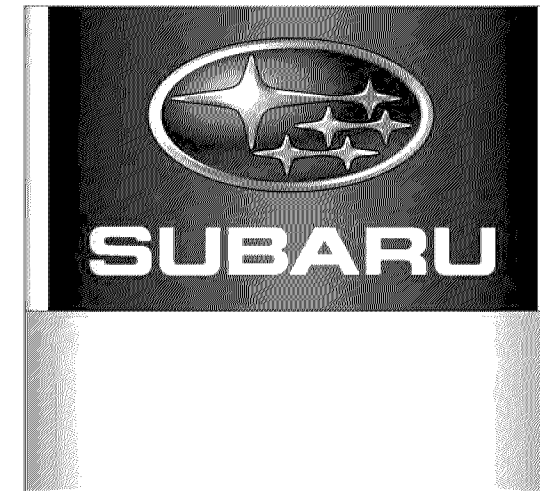
P120
8' 8" H X 15' 2"
X 26' 11" OAH



M30
4' 4" H X 7' 10"
X 6' 10" OAH

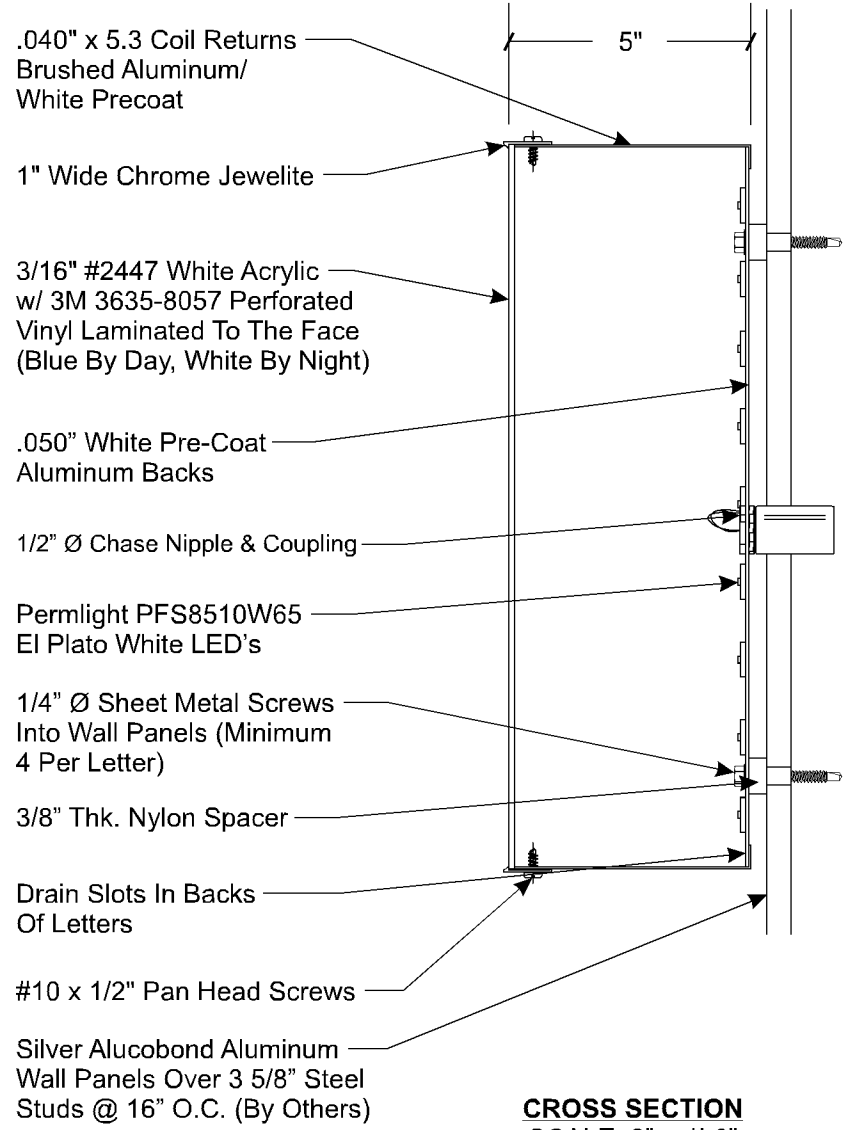


M50
5' 7-1/2" H X 9' 11"
X 8' 1-1/2" OAH



M65
6' 4" H X 11' 1"
X 8' 10" OAH

**ENGINEERING
SHOP
VINYL / LAYOUT
ROUTING / KNIFE**



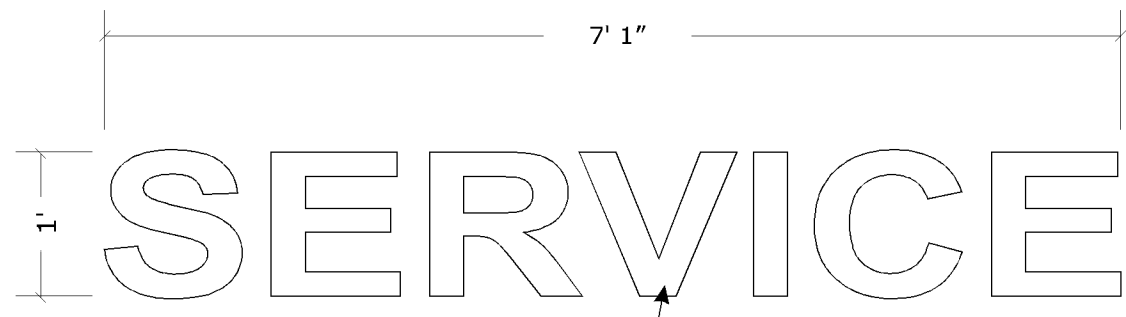
CROSS SECTION
SCALE: 3" = 1'-0"

ELECTRICAL LOAD 12" (2.0) Amps @ 120 Volts ELECTRICAL REQ'MTS (1) 20 Amp/120 Volt Circuit	ELECTRICAL LOAD 18" (2.0) Amps @ 120 Volts ELECTRICAL REQ'MTS (1) 20 Amp/120 Volt Circuit	ELECTRICAL LOAD 24" (2.0) Amps @ 120 Volts ELECTRICAL REQ'MTS (1) 20 Amp/120 Volt Circuit
--	--	--

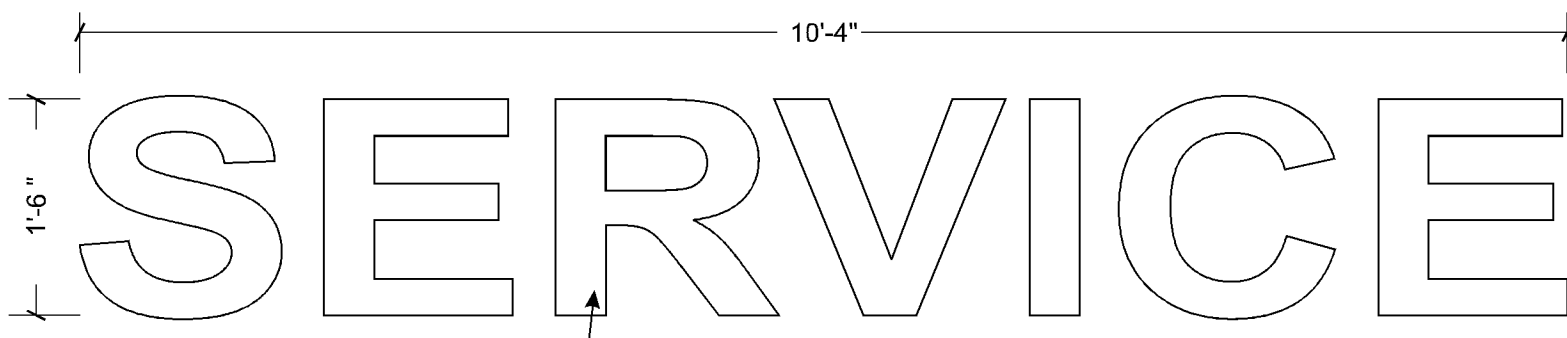
Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

- STANDARD LETTER NOTES:**
1. Sufficient Primary Circuit In Vicinity Of Sign By Others.
 2. Letter To Letter Wiring & Final Primary Hook-up By Sign Installer, Where Allowed By Local Codes.
 3. Sign Shall Be U.L. Listed.
 4. Mounting Hardware By Sign Installer.
 5. Full Size Drilling Template Furnished With Sign.

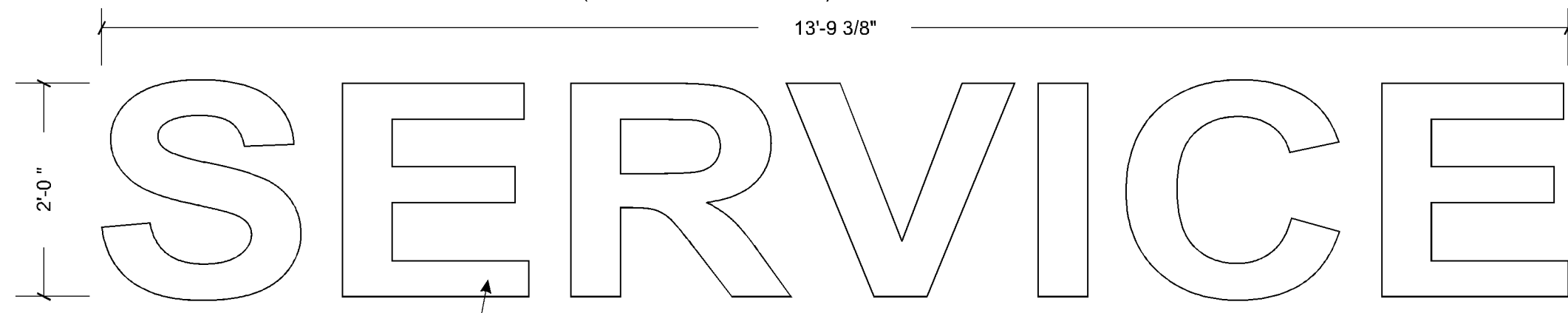
- WIRING NOTES:**
- Bank 1 - Entire Letter S, E, & R.
 - Bank 2 - Entire Letter V, I, C, & E.
 - Bank 3 - No WIRING to Bank 3
 - Bank 4 - No WIRING to Bank 4



18" T/W Illuminated Letters
Blue By Day, White By Night
(FONT TO BE ARIEL BOLD)



18" T/W Illuminated Letters
Blue By Day, White By Night
(FONT TO BE ARIEL BOLD)



18" T/W Illuminated Letters
Blue By Day, White By Night
(FONT TO BE ARIEL BOLD)

LETTER ELEVATIONS
SCALE: 3/4" = 1'-0"

**PERMITS
ONLY**



**Philadelphia Sign
COMPANY**

707 West Spring Garden Street
Palmyra, New Jersey 08065

Phone: 856 829 1460
Fax: 856 829 8549
E-mail: mail@philadelphiasign.com

CUSTOMER:

SUBARU

JOB NUMBER:

REVISIONS:

Date:	Description:	By:
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

DRAWING TYPE:

PERMIT DRAWING

SIGN TYPE:

12", 18", 24" T/W LETTERS

LOCATION:

VARIOUS

DATE:

10-25-06

DRAWN BY:

TS

SHEET:

1 of 2

DWG NUMBER:

B-23628

THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY P.S.C.O. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY P.S.C.O. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.

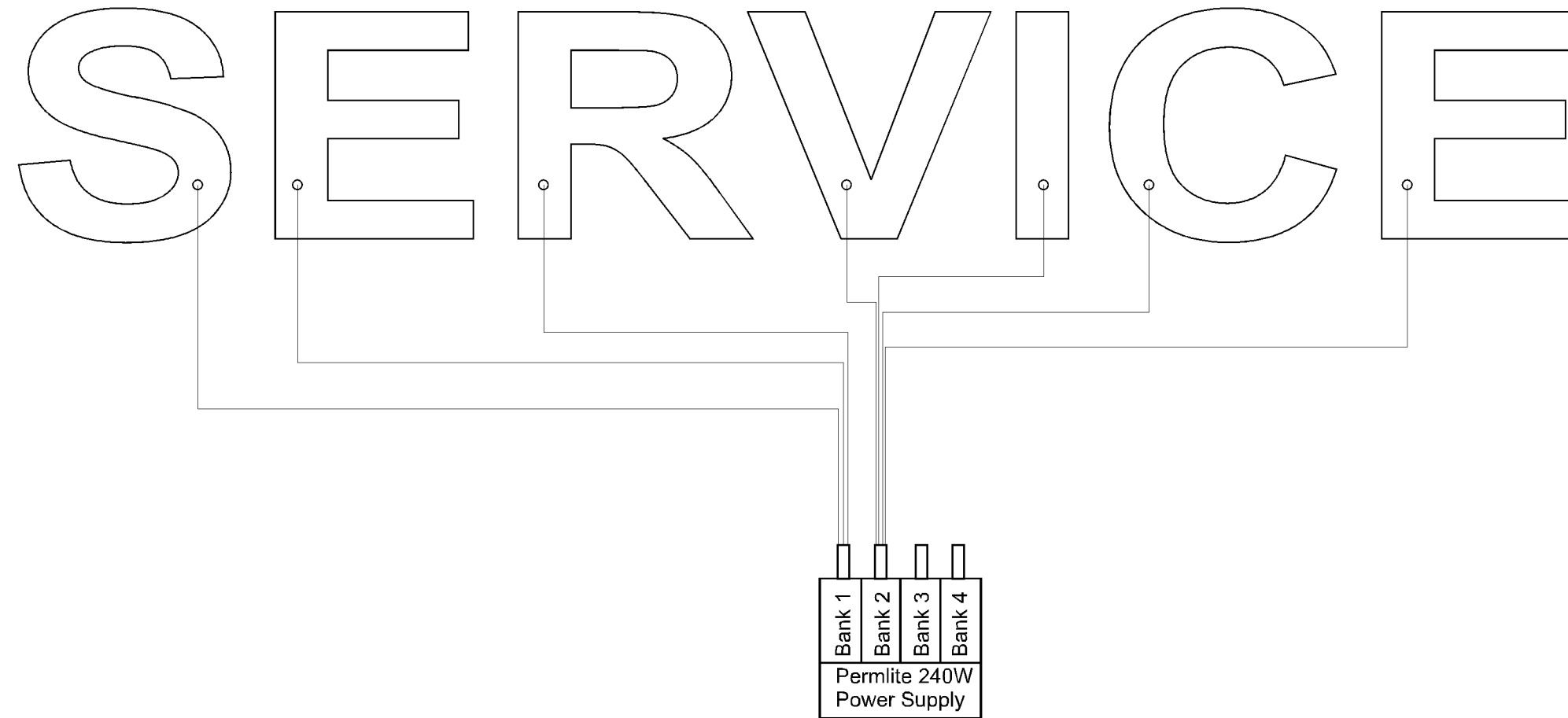
PERMITS
ONLY

ELECTRICAL LOAD 12" (2.0) Amps @ 120 Volts ELECTRICAL REQ'MTS (1) 20 Amp/120 Volt Circuit	ELECTRICAL LOAD 18" (2.0) Amps @ 120 Volts ELECTRICAL REQ'MTS (1) 20 Amp/120 Volt Circuit	ELECTRICAL LOAD 24" (2.0) Amps @ 120 Volts ELECTRICAL REQ'MTS (1) 20 Amp/120 Volt Circuit
--	--	--

Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

STANDARD LETTER NOTES:

1. Sufficient Primary Circuit In Vicinity Of Sign By Others.
2. Letter To Letter Wiring & Final Primary Hook-up By Sign Installer, Where Allowed By Local Codes.
3. Sign Shall Be U.L. Listed.
4. Mounting Hardware By Sign Installer.
5. Full Size Drilling Template Furnished With Sign



WIRING DIAGRAM LETTER ELEVATION
NOT TO SCALE

WIRING NOTES:

- Bank 1 - Entire Letter S, E, & R.
- Bank 2 - Entire Letter V, I, C, & E.
- Bank 3 - No WIRING to Bank 3
- Bank 4 - No WIRING to Bank 4



Philadelphia Sign
C O M P A N Y

707 West Spring Garden Street
Palmyra, New Jersey 08065

Phone: 856 829 1460
Fax: 856 829 8549
E-mail: mail@philadelphiasign.com

CUSTOMER:

SUBARU

JOB NUMBER:

REVISIONS:

Date:	Description:	By:
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

DRAWING TYPE:

PERMIT DRAWING

SIGN TYPE:

12", 18", 24" T/W LETTERS

LOCATION:

VARIOUS

DATE:

10-25-06

DRAWN BY:

TS

SHEET:

2 of 2

DWG NUMBER:

B-23628

THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY P.S.C.O. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY P.S.C.O. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.



CUSTOMER:

SUBARU

JOB NUMBER:

SUB_CL ILL_15383

SIGN TYPE:

LOGO.CHR.36_SUB_LED

LOCATION:

DATE:

11-17-15

DRAWN BY:

RAB

REVISION:

Number: Date: By:

SHEET:

ENG DEPT

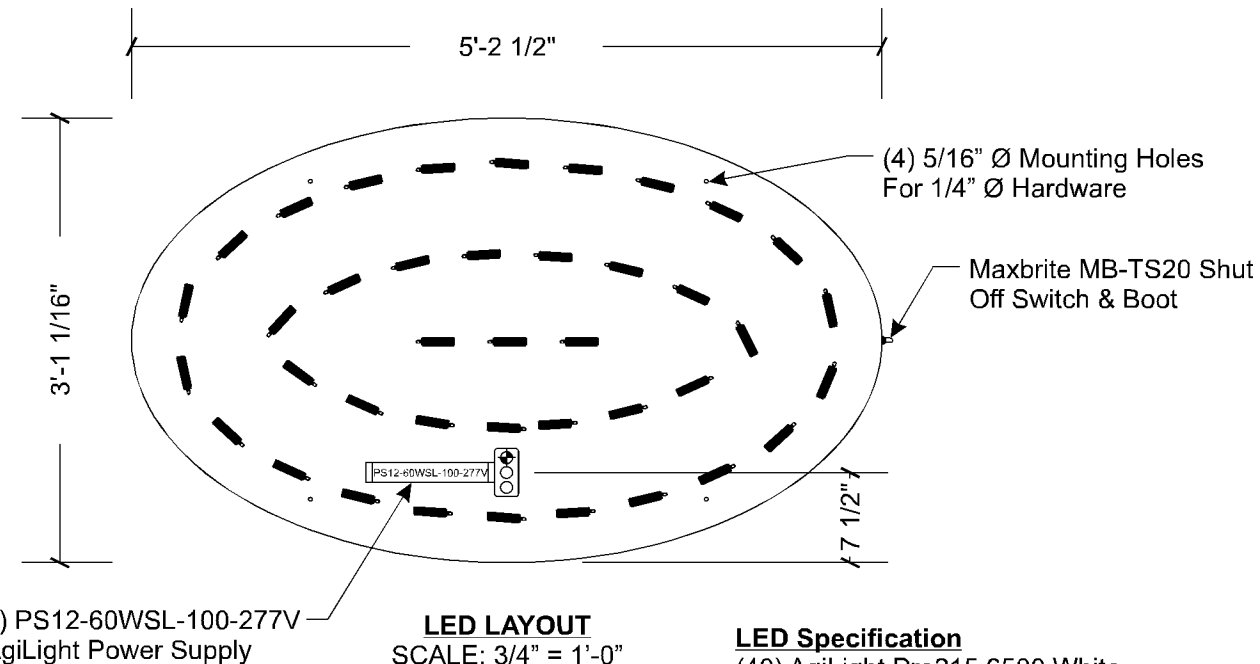
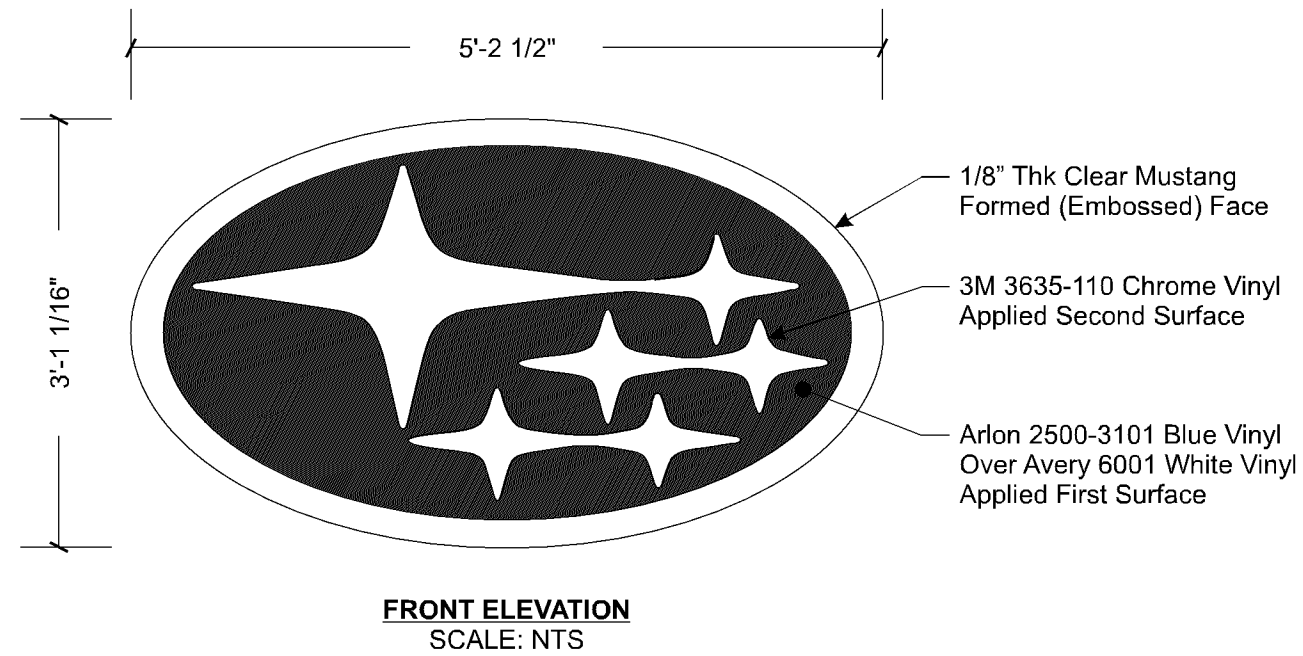
1 of 1

DWG NUMBER:

B65429

ENGINEER SEAL:

MAX DESIGN WIND SPEED 90 MPH
EXPOSURE C

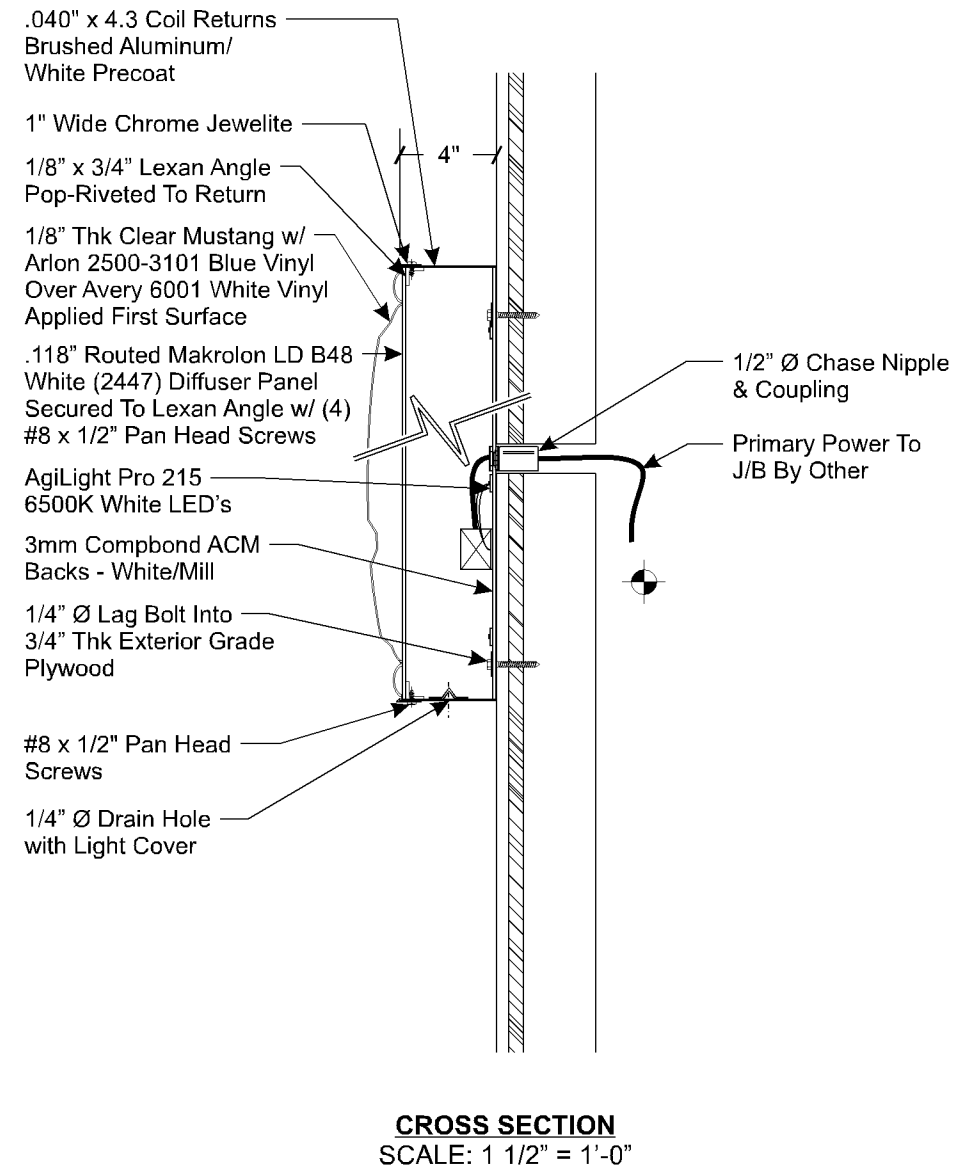


LED Specification

(40) AgiLight Pro215 6500 White LED's (LS-PRO-215-65K-2G3)

(1) Agilight 60 Watt Power Supply (PS12-60WSL-100-277V)

Each 60 Watt Power Supply Will Run a Maximum of 50 Modules



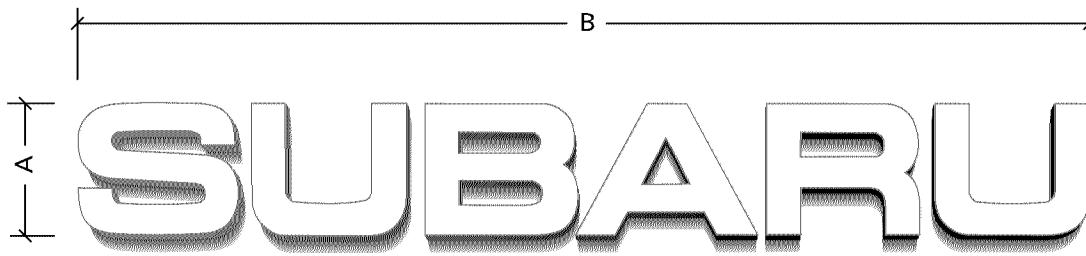
Electrical Load
0.63 Amps @ 120 Volts
Electrical Req'mts
(1) 20 Amp/120 Volt Circuits

STANDARD WALL SIGN NOTES:

1. Sufficient Primary Circuit In Vicinity Of Sign By Others.
2. Final Primary Hook-up By Sign Installer, Where Allowed By Local Codes.
3. Sign Shall Be U.L. Listed.
4. Mounting Hardware By Sign Installer.

Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

THIS IS AN ORIGINAL UNPUBLISHED DRAWING CREATED BY PSCO. IT IS SUBMITTED FOR YOUR PERSONAL USE IN CONJUNCTION WITH A PROJECT BEING PLANNED FOR YOU BY PSCO. IT IS NOT TO BE SHOWN TO ANYONE OUTSIDE YOUR ORGANIZATION NOR IS IT TO BE USED, COPIED, REPRODUCED, OR EXHIBITED IN ANY FASHION.



Night Channel Letter Elevation

Scale: NTS

Night Channel Letter Specifications

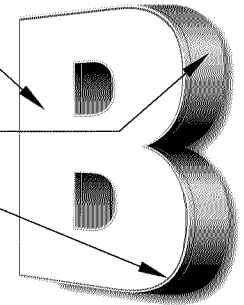
#2447 White Acrylic w/Perforated 3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Blue By Day, White By Night)

White Precoat Returns Painted Matthews 281342SP Brushed Aluminum

1" Wide Chrome Jewelite

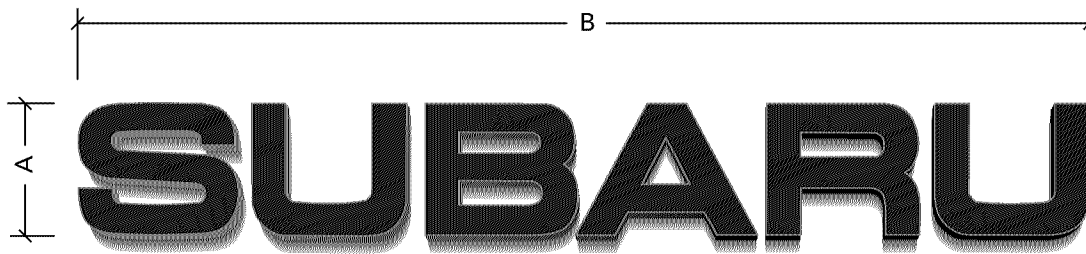
15mm 6500 White Neon Tubes

60ma 120 volt Transformer



Color Schedule

Letter Faces	3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Day=Blue/Night=White)
Trimcap	Chrome Jewelite
Returns	Matthews 281342SP Brushed Alum.



Day Channel Letter Elevation

Scale: NTS

Day Channel Letter Specifications

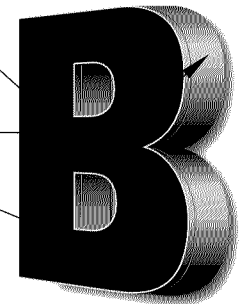
#2447 White Acrylic w/Perforated 3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Blue By Day, White By Night)

White Precoat Returns Painted Matthews 281342SP Brushed Aluminum

1" Wide Chrome Jewelite

15mm 6500 White Neon Tubes

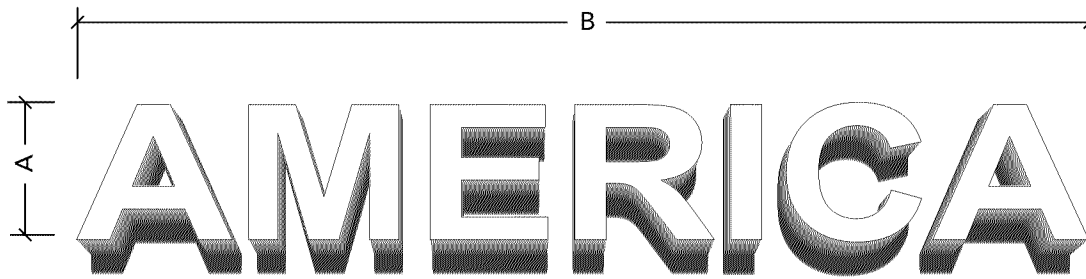
60ma 120 volt Transformer



Color Schedule

Letter Faces	3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Day=Blue/Night=White)
Trimcap	Chrome Jewelite
Returns	Matthews 281342SP Brushed Alum.

Sign Type	A	B	Sq Ft	Face
CLB.18_SUB	18"	12' 10"	19.25	Acrylic
CLB.24_SUB	24"	17' 1-1/4"	34.21	Acrylic
CLB.36_SUB	36"	25' 7-3/4"	76.94	Acrylic



Night Channel Letter Elevation

Scale: NTS

Night Channel Letter Specifications

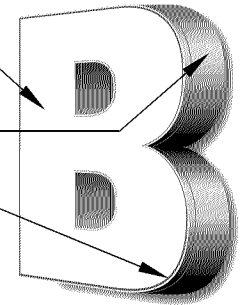
#2447 White Acrylic w/Perforated 3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Blue By Day, White By Night)

White Precoat Returns Painted Matthews 281342SP Brushed Aluminum

1" Wide Chrome Jewelite

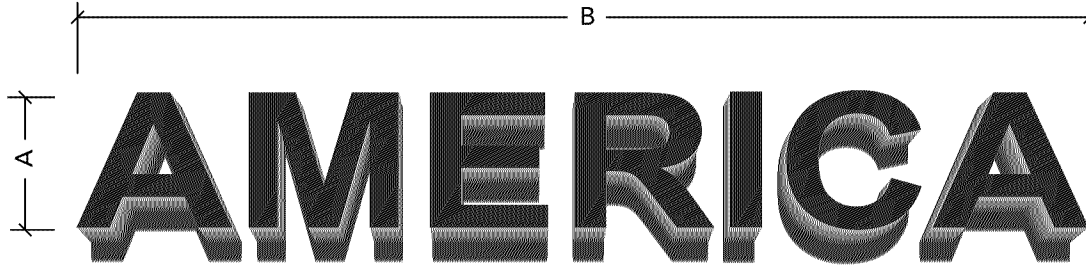
White LED Lit

Raceway to match building fascia



Color Schedule

Letter Faces	3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Day=Blue/Night=White)
Trimcap	Chrome Jewelite
Returns	Matthews 281342SP Brushed Alum.
Raceway	Painted to match fascia



Day Channel Letter Elevation

Scale: NTS

Day Channel Letter Specifications

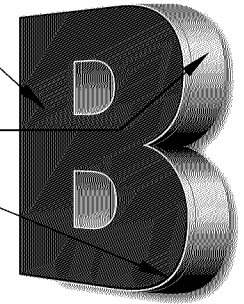
#2447 White Acrylic w/Perforated 3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Blue By Day, White By Night)

White Precoat Returns Painted Matthews 281342SP Brushed Aluminum

1" Wide Chrome Jewelite

White LED Lit

Raceway to match building fascia



Color Schedule

Letter Faces	3M Vinyl VDN-10968 3630-137 European Blue/210 White Vinyl Dual Color Film Laminated to Face (Day=Blue/Night=White)
Trimcap	Chrome Jewelite
Returns	Matthews 281342SP Brushed Alum.
Raceway	Painted to match fascia

Sign Type	A	B	Sq Ft	Face
12" America	12"	7' 3"	7.25	Acrylic
18" America	18"	10' 10-3/8"	16.3	Acrylic
24" America	24"	14' 5-7/8"	28.98	Acrylic
36" America	36"	18' 11-1/2"	56.86	Acrylic