



# Markerboard Technical Manual

### Glass Thickness Options

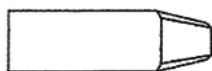


4mm (5/32")



6mm (1/4")

### Edge Finish Options



Flat Edge Polish

### Surface Finish Options



### Minimum and Maximum Sizes

Thickness	Minimum*	Maximum
4mm (5/32")	6" x 12"	48" x 96"
6mm (1/4")	6" x 12"	60" x 120"

\*Contact Element Designs for availability of other sizes.

### Glass Dimensional Tolerances

Thickness	Edgework	Metric	Decimal, Standard	Fraction, Standard
4mm (5/32")	polished	+0, -1.6mm	+0, -0.063"	+0, - 1/16"
6mm (1/4")	polished	+0, -3.2mm	+0, -0.125"	+0, - 1/8"

All Element Designs glass is tempered. Tempered glass will not have an etched tempered logo unless otherwise specified at time of order.

## Standard Colors

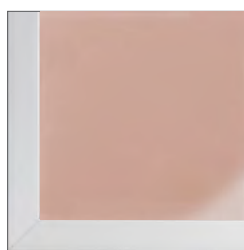
Element Designs provides an additional water based light grey coating (backer) on the color-coated surface for additional durability and 100% opacity. Alternative backer colors available upon request.



white gloss



sand gloss



blush gloss



aqua gloss



slate gloss



white matte



sand matte



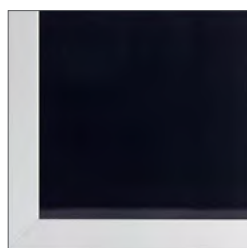
blush matte



aqua matte



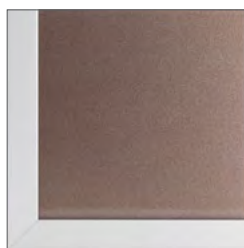
slate matte



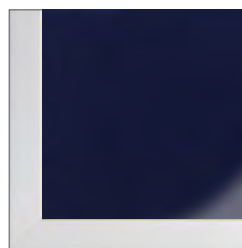
black gloss



cream gloss



bronze gloss



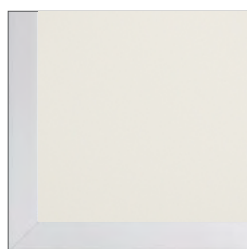
navy gloss



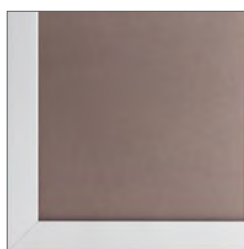
mist gloss



black matte



cream matte



bronze matte



navy matte



mist matte

## Custom Color Match

Element Designs can provide exact color matches for custom projects. A custom color match fee covers the paint matching process and two 4" x 4" samples for approval. Samples of non-standard colors can also be obtained for a fee.

**NOTE:** Element Designs strongly recommends that the end user review the color choice on the glass thickness for exact color matching prior to placing a production order. Various glass thicknesses can optically distort the backpainted glass color when viewed through the glass.

*Color swatches of these printed samples may vary slightly over time, and as such are only to be considered as a guide. Please order an actual backpainted glass sample for accurate color representation.*



Our non-standard colors are based on standard RAL colors with pre-determined color formulations which allow for a faster lead time than custom color matches. Samples are available upon request for a nominal fee.

					
1000 Green Beige	1014 Dark Ivory	1028 Melon Yellow	2008 Bright Red Orange	3007 Black Red	3027 Raspberry Red
					
1001 Beige	1015 Light Ivory	1032 Broom Yellow	2009 Traffic Orange	3011 Brown Red	3031 Orient Red
					
1002 Sand Yellow	1016 Sulfur Yellow	1033 Dahlia Yellow	2010 Signal Orange	3012 Beige Red	4002 Red Violet
					
1004 Golden Yellow	1017 Saffron Yellow	1034 Pastel Yellow	2011 Deep Orange	3013 Tomato Red	4003 Heather Violet
					
1005 Honey Yellow	1018 Zinc Yellow	1037 Sun Yellow	2012 Salmon Orange	3014 Antique Pink	4004 Claret Violet
					
1006 Maize Yellow	1019 Grey Beige	2000 Yellow Orange	3000 Flame Red	3015 Light Pink	4006 Traffic Purple
					
1007 Daffodil Yellow	1021 Ripe Yellow	2001 Red Orange	3001 Signal Red	3016 Coral Red	4007 Purple Violet
					
1011 Brown Beige	1023 Traffic Yellow	2002 Vermilion	3002 Carmine Red	3017 Rose	4008 Signal Violet
					
1012 Lemon Yellow	1024 Ochre Yellow	2003 Pastel Orange	3003 Ruby Red	3018 Strawberry Red	5000 Violet Blue
					
1013 Oyster White	1027 Curry Yellow	2004 Pure Orange	3004 Purple Red	3020 Traffic Red	5001 Green Blue

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Please order an actual backpainted glass sample for accurate color representation.

Technical Specifications Are Subject To Change



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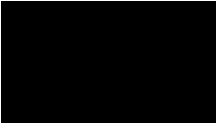
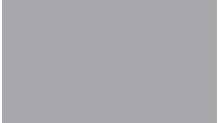













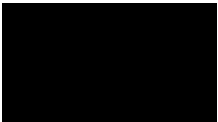







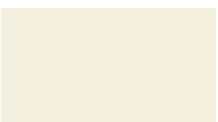
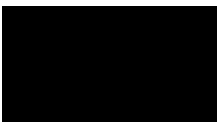
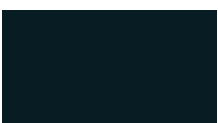













					
5002 Ultramarine	5013 Cobalt Blue	5024 Pastel Blue	6009 Fir Green	6020 Chrome Green	6033 Mint Turquoise
					
5003 Sapphire Blue	5014 Pigeon Blue	6000 Patina Green	6010 Grass Green	6021 Pale Green	6034 Pastel Turquoise
					
5004 Black Blue	5015 Sky Blue	6001 Emerald Green	6011 Reseda Green	6022 Olive Drab	7000 Squirrel Grey
					
5005 Signal Blue	5017 Traffic Blue	6002 Leaf Green	6012 Black Green	6024 Traffic Green	7001 Silver Grey
					
5007 Brilliant Blue	5018 Turquoise Blue	6003 Olive Green	6013 Reed Green	6025 Fern Green	7002 Olive Grey
					
5008 Grey Blue	5019 Capri Blue	6004 Blue Green	6015 Black Olive	6026 Opal Green	7003 Moss Grey
					
5009 Azure Blue	5020 Ocean Blue	6005 Moss Green	6016 Turquoise Green	6027 Light Green	7004 Signal Grey
					
5010 Gentian Blue	5021 Water Blue	6006 Grey Olive	6017 May Green	6028 Pine Green	7005 Mouse Grey
					
5011 Steel Blue	5022 Night Blue	6007 Bottle Green	6018 Yellow Green	6029 Mint Green	7006 Beige Grey
					
5012 Light Blue	5023 Distant Blue	6008 Brown Green	6019 Pastel Green	6032 Signal Green	7008 Khaki Grey

Color swatches of these printed samples may vary slightly over time, and as such are only to be considered as a guide.  
Please order an actual backpainted glass sample for accurate color representation.

Technical Specifications Are Subject To Change

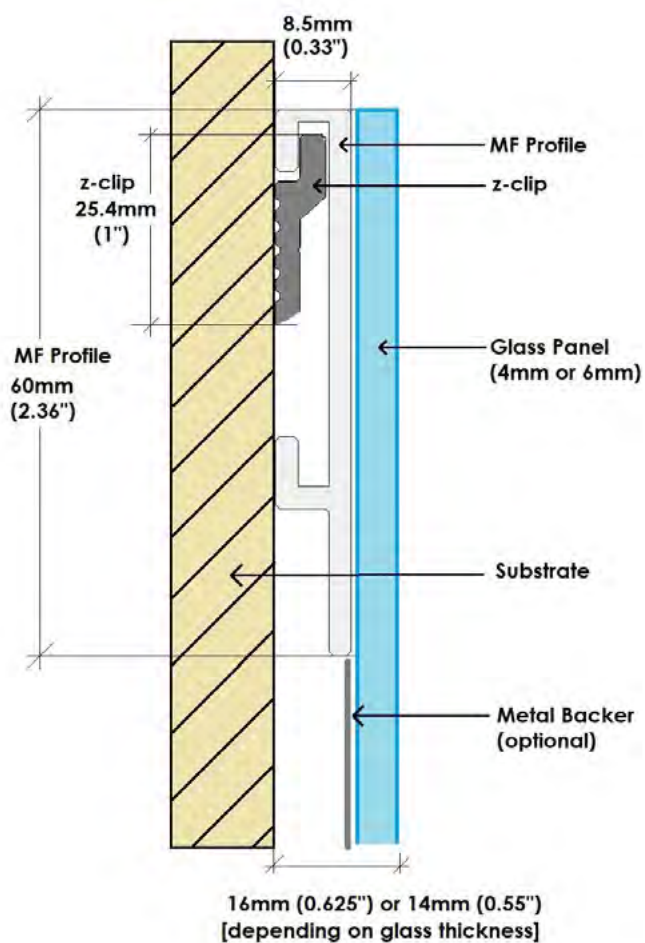


Our non-standard colors are based on standard RAL colors with pre-determined color formulations which allow for a faster lead time than custom color matches. Samples are available upon request for a nominal fee.

					
7009 Green Grey	7030 Stone Grey	7042 Traffic Grey A	8004 Copper Brown	8022 Black Brown	9006 White Aluminum*
					
7010 Tarpaulin Grey	7031 Blue Grey	7043 Traffic Grey B	8007 Fawn Brown	8023 Orange Brown	9007 Grey Aluminum*
					
7011 Iron Grey	7032 Pebble Grey	7044 Silk Grey	8008 Olive Brown	8024 Beige Brown	9010 Pure White
					
7012 Basalt Grey	7033 Cement Grey	7045 Tele Grey 1	8011 Nut Brown	8025 Pale Brown	9011 Graphite Black
					
7013 Brown Grey	7034 Yellow Grey	7046 Tele Grey 2	8012 Red Brown	8028 Terra Brown	9016 Traffic White
					
7016 Anthracite Grey	7035 Light Grey	7047 Tele Grey 4	8014 Sepia Brown	9001 Cream	9017 Traffic Black
					
7021 Black Grey	7036 Platinum Grey	8000 Green Brown	8015 Chestnut Brown	9002 Grey White	9018 Papyrus White
					Technical specifications and color availability are subject to change.
7022 Umber Grey	7037 Dusty Grey	8001 Ochre Brown	8016 Mahogany Brown	9003 Signal White	
					
7023 Concrete Grey	7039 Quartz Grey	8002 Signal Brown	8017 Chocolate Brown	9004 Signal Black	* Additional metallic colors are also available. Please contact Element Designs for color selections.
					
7026 Granite Grey	7040 Window Grey	8003 Clay Brown	8019 Grey Brown	9005 Jet Black	

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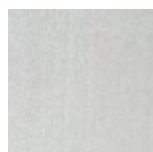


## MF Frame

The MF Aluminum frame profile is designed to fit a zclip with in the frame, which allows for easy installation. The four sided frame is bonded to the metal and glass, creating a finished edge detail on all sides.

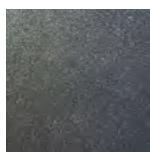
## MF Frame Finishes

### Anodized

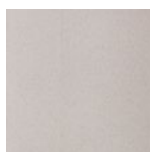


natural aluminum (N)

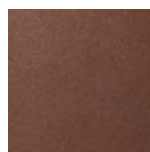
### Coated



graphite (GR)



arctic silver (AS)



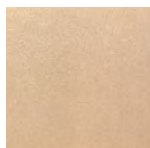
luxe bronze (LB)



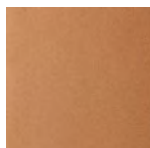
chalk (CK)



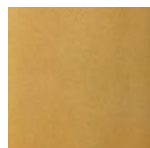
black (B)



gold (GLD)



copper (C)



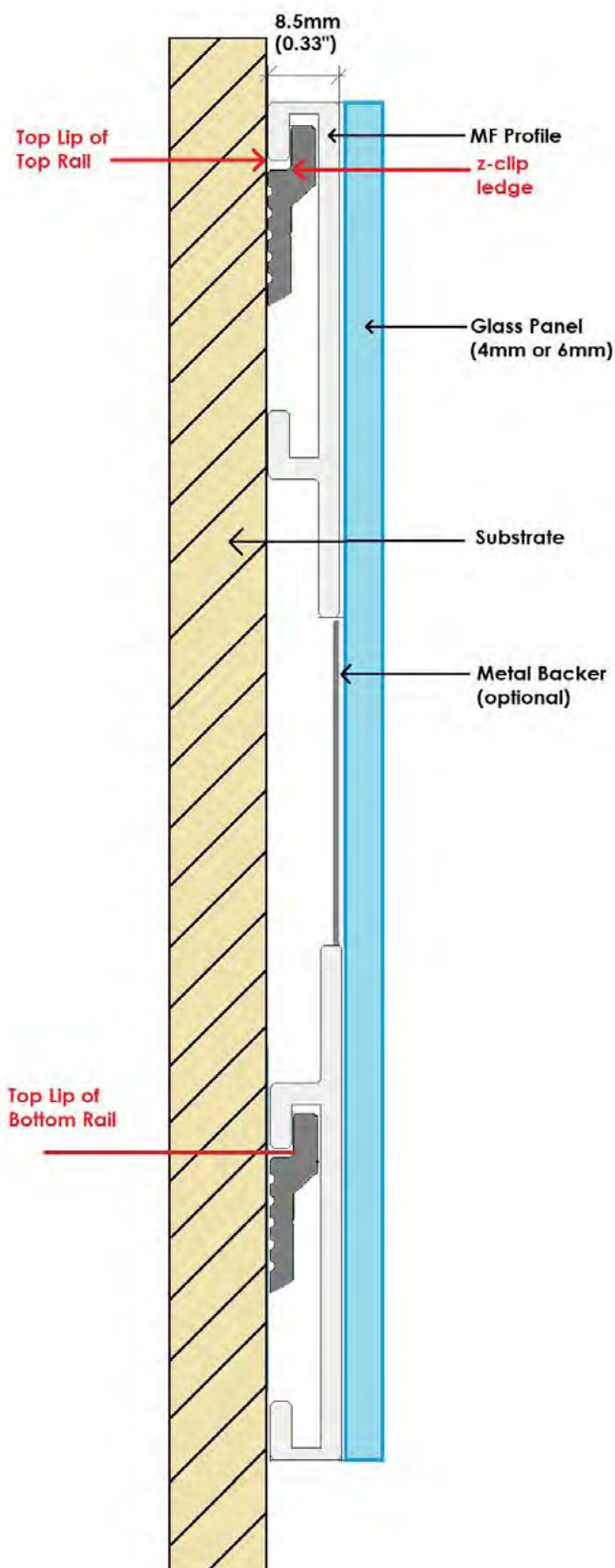
modern brass (MB)



onyx (matte)(X)



bronze matte (BZM)

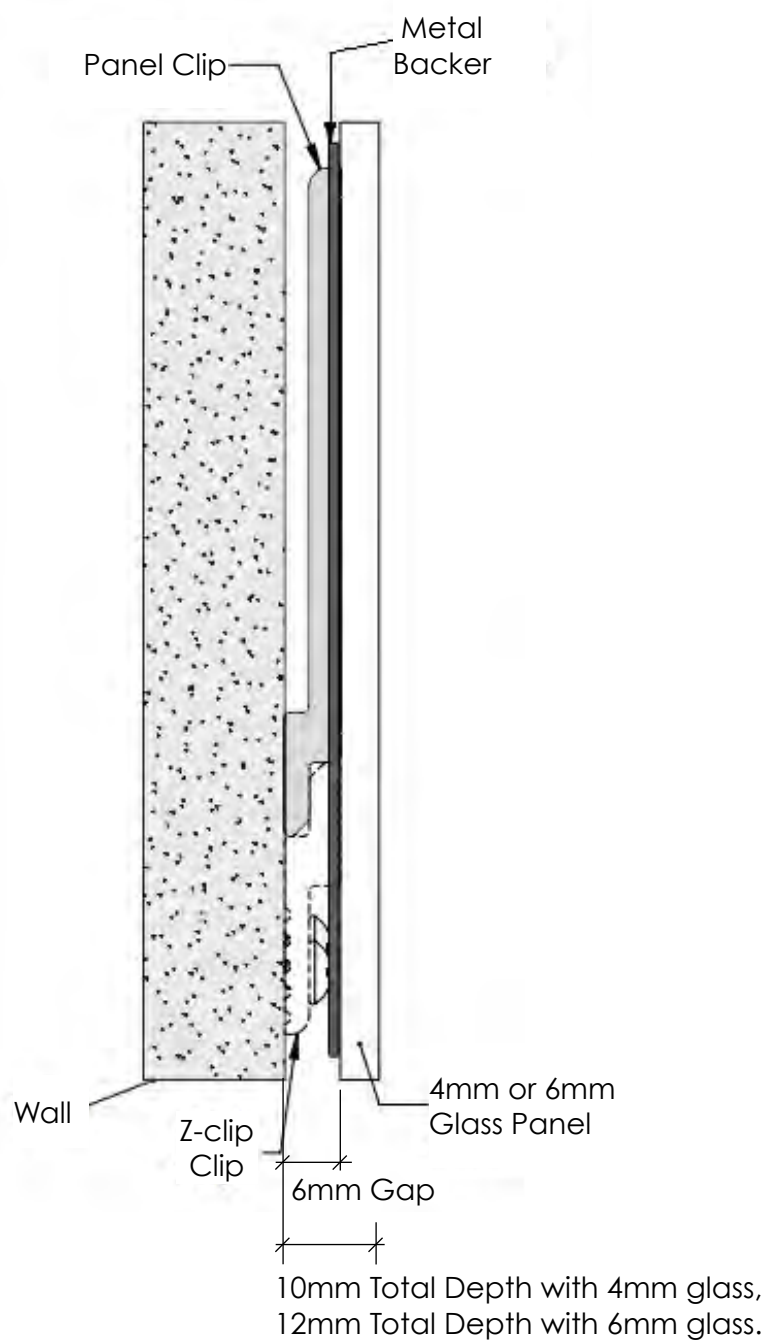


1) Measure from Top Lip of Top Rail to Top Lip of Bottom Rail. Mark locations on substrate.

2) Locate studs or structural elements on the desired mounting surface using a stud finder. If wall studs are not found, screw anchors are required to insure a solid connection of the z-clip to the mounting surface.

3) Attach the z-clips to the wall, aligning z-clip ledge with locations of Top Rail Lip and Bottom Rail Lip location markings.

4) Hang the glass markerboards with the inside channel of the MF010 profile rails by lifting and engaging on the z-clip.



### Hanging Cleat

Includes zclips that are mounted to the wall and board hangs from clips.

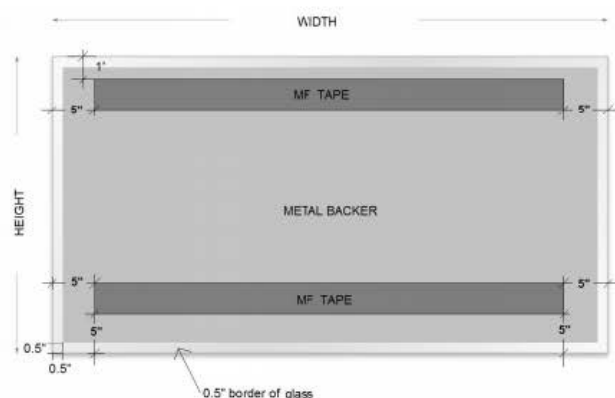
Rows of MF tape needed is calculated based on linear footage and weight of board.



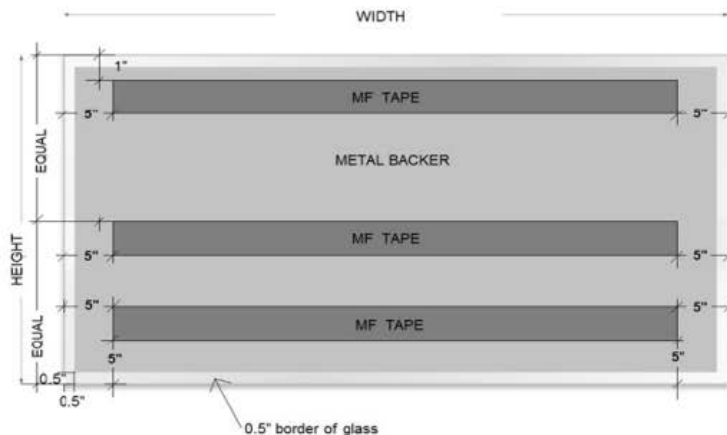
The markerboard will come with two or three aluminum lineal mounting brackets (MF Tape) permanently adhered to the back of the panel. The location of the mounting brackets will need to correspond to the installation of the z-clip which will mount to the wall. Correct installation of the system will result in a floating markerboard with minimal 1/4" (6mm) projection off the mounting surface.

### Markerboard Construction (Backside View)

Two mounting brackets (MMBs < ~15 SF)



Three mounting brackets (MMBs > ~15 SF)



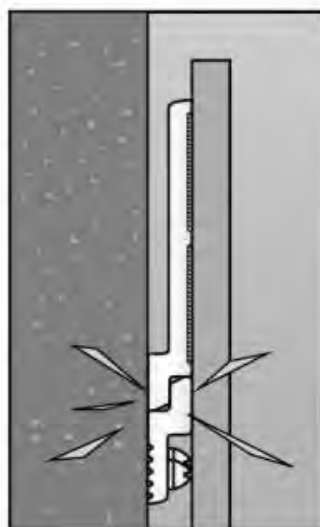
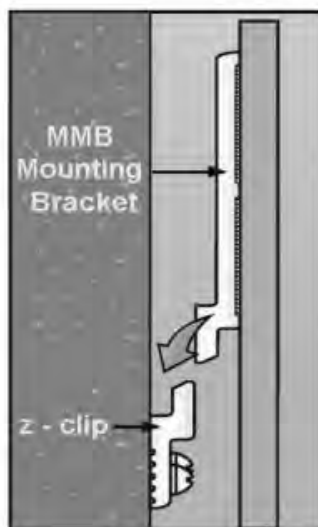
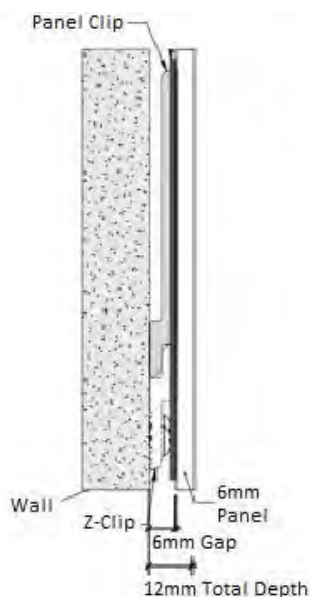
1) Measure to the bottom edge of each MF Tape mounting bracket locations and mark the wall for the z-clip installation.

As a guide, the top MF Tape hanger of the mounting bracket is located approximately at 4" from the top edge of the glass markerboard. The bottom MF Tape hanger will be located at approximately 5.375" from the bottom edge of the glass markerboard. On panels that > 15 sf, the center MF Tape hanger of the mounting bracket will be located approximately 3" below the markerboard's centerline. Due to technical and custom construction requirements, it is recommended that these dimensions be field verified prior to installation of the markerboard.

2) Locate studs or structural elements on the desired mounting surface using a stud finder. If wall studs are not found, screw anchors are required to insure a solid connection of the z-clip to the mounting surface.

3) Attach the z-clips to the wall at the corresponding locations of the bottom edge of each MF Tape mounting bracket, parallel to the floor or work surface.

4) Hang the glass markerboard's MF Tape mounting bracket by lifting and engaging on the z-clip as shown below.



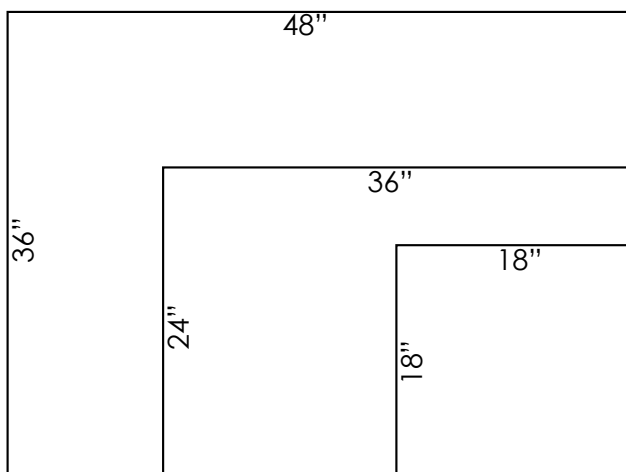


## Glass Magnetic Markerboard Quick Ship Program

Quick-ship glass magnetic markerboard program designed for residential or commercial use. Proudly made in the USA.

### Features & Benefits:

- 2 - 5 day standard lead time
- 3 standard sizes
- 6 standard colors
- Gloss and writeable matte
- Tempered safety glass
- Optional Magnetic backer
- Simple concealed Z-Clip mounting
- Sustainable water based paint
- Installation template included
- Drop ships to residential address
- Made in the USA





### Cleaning Care & Maintenance:

Element Designs' backpainted glass can be cleaned with standard glass cleaners.

For the gloss and/or Satin surface of the glass, we recommend using 99% isopropyl alcohol, citrus or vinegar based cleaners on a clean, non-abrasive cloth or paper towel. If a heavy stain is present and does not come clean using the suggestions above, use isopropyl alcohol with a Mr. Clean Magic Eraser by gently scrubbing until the mark is removed.

For the backpainted water based coating, we recommend using a mildly damp (water only) on a non-abrasive cloth to gently clean the coated side of the glass.

NEVER use an abrasive cleaning pads such as a metallic sponge, solvents, strong detergents or other chemical agents when cleaning glass.

### Note to Specifier:

Element Designs' backpainted glass is produced at the highest quality in the market due to our customer's expectations and the vast vertical and horizontal application range of the product. Element Designs only coats low-iron optically clear glass for minimal optical color distortion of the paint through the glass. The paint itself is water based and produces negligible VOCs during production. When designing with Element Designs backpainted glass, please specify: Element Designs, water based paint, low iron glass, flat edge polished, 100% tempered, light grey backer, custom color match capability, negligible VOC content and total opacity to prevent substitutions of inferior painted glass products.

### Markerboard – Limited Warranty:

Additional magnetic markerboard specifications:

All magnetic markerboard consists of backpainted glass coated on low iron 4mm thickness tempered glass, a bonded 20 gauge galvanized ferrous metal to the paint side of the glass and multiple z-clip mounting systems for hanging the magnetic markerboard unit.

All Element Designs glass safety-tempered glass and magnetic markerboards should only use gloss glass for write ability and erase ability. The manufactured tempered glass meets the ASTM C-1036 Standard and is subject to permissible defects as defined in the referenced ASTM specification.

Element Designs recommends to only use rare earth magnets designed for magnetic glass markerboards. Rare earth magnets are powerful magnets, which are a pinching hazard. Do not ingest or inhale magnets. Attraction of magnets in the body may cause serious injury and require immediate medical care. Magnets may cause interference with cardiac devices including pacemakers and pose potential hazards to patients. Keep away from small children. Keep away from TVs, VCR tapes and all magnetic media. Please read all terms and conditions located on the back of your invoice or packing slip, as well as the colored warning sheet which accompanies your shipment.



Street Address:  
235 Crompton Street  
Charlotte, NC 28273

Mailing Address:  
P.O. Box 7747  
Charlotte, NC 28241

Ph: 877-332-3396  
Fx: 704-332-3267

[www.element-designs.com](http://www.element-designs.com)  
[info@element-designs.com](mailto:info@element-designs.com)

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