



WISCONSIN SHOWER DOOR
CUSTOM GLASS FABRICATION

FLAT GLASS PRICE BOOK

Stock Sheet, Cut to Size, Fabrication, Tempering, I.G. Units & Sundries

WHOLESALE PRICING

Effective 11/2025



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QUOTE REQUESTS - SEND ALL QUOTE REQUESTS TO:

- quotes@wisconsinshowerdoor.com

ORDER REQUESTS - SEND TO ORDER REQUESTS TO:

- orders@wisconsinshowerdoor.com
- Incomplete orders will be delayed until all information is received; order dates are established once all information is received.

Quotes and Orders will not be processed if sent directly to CSR emails.

Prices does not include applicable surcharges or taxes and are subject to change without notice.

CHANGES or CANCELLATIONS - Materials are put into production upon order generation. Any modifications requested after acknowledgment of order will be billed for the cost of completed materials and a \$25.00 processing fee.

STOCK SHEET – FLAT GLASS

		PRICE PER SQUARE FOOT					
		VOLUME PRICING (cannot mix DS & SS with 3/16" or thicker for quantity discounts)					
GLASS		SHEET SIZE		ONE	FIVE	TEN	TWENTY+
SS	Non-Glare	36"	48"	7.769	7.434	*CASE OF 4	
SS	Non-Glare	40"	60"	15.083	14.432	*CASE OF 2	
SS	Clear Plate (3 Sheet Minimum)	48	84	0.995	0.952	0.919	0.889
DS	Clear Plate (2 Sheet Minimum)	48 72	84 84	1.311	1.255	1.211	1.171
3/16"	Clear Plate	72	130	2.552	2.442	2.356	2.280
1/4"	Clear Plate	48 60 72	130 130 130	2.733	2.615	2.523	2.441
3/8"	Clear Plate	96	130 #	5.890	5.636	5.438	5.261
1/2"	Clear Plate	96	130 #	6.882	6.585	6.353	6.147
1/4"	Optiwhite	96	130 #	6.540	6.258	6.038	5.842
3/8"	Optiwhite	96	130 #	14.032	13.426	12.954	12.534
1/2"	Optiwhite	96	130 #	15.369	14.705	14.188	13.728
3/4"	Optiwhite (Call for Availability)	65	96 #	35.145	33.627	32.445	31.393
3/16	Robax®	43	77	35.784			
1/8"	Bronze/Grey Plate	B: 65	96	5.587	5.345	5.157	4.990
3/16"	Bronze/Grey Plate	65	96	5.990	5.731	5.530	5.351
1/4"	Bronze/Grey Plate	96	130 #	6.122	5.858	5.652	5.468
3/8"	Bronze/Grey Plate	96	130 #	17.678	16.914	16.320	15.791
1/8"	Midnight Grey	72	84	8.747	8.369	8.075	7.813
1/4"	.030 Clear Laminated	36 40 48 60	84 80 84 96	7.618	7.289	7.033	6.805
1/4"	.030 Bronze Laminated	40	80	8.981	8.593	8.291	8.022
1/4"	.030 Grey Laminated	40	80	8.981	8.593	8.291	8.022
1/4"	.030 Green Laminated	36 48	84 84	8.981	8.593	8.291	8.022
1/4"	.030 Hue White Laminated	60	96	10.672	10.211	9.852	9.532

Split Sheet Pricing – Price for one (1) cut to split sheet from stock sheet size as follows: // Split sheets require one (1) production day and will not be available for next day delivery.

SS – 1/4" – \$9.25 one cut

3/8" – \$18.50 one cut

1/2" – \$18.50 one cut

3/4" – \$62.00 one cut (all 3/4" stock must be split)

Lami – \$18.50 one cut

Robax – \$11.00 one cut

#Jumbo sheet stock – Split charges apply // WSD will not deliver jumbo stock sheets

STOCK SHEET – MIRROR

PRICE PER SQUARE FOOT						
MIRROR	SHEET SIZE	VOLUME PRICING (cannot mix DS & SS with 3/16" or thicker for quantity discounts)				
		ONE	FIVE	TEN	TWENTY+	
DS Clear Mirror (2 Sheet Minimum)	48 84	3.224	3.083	2.978	2.880	
3/16" Clear Mirror	72 120	4.727	4.520	4.367	4.223	
1/4" Clear Mirror	48 120	4.962	4.745	4.584	4.433	
	60 120					
	72 120					
1/4" Grey Mirror	72 130	9.807	9.378	9.060	8.761	
1/4" Clear Laminated Mirror	48 84	17.333	16.574	16.013	15.484	

STOCK SHEET – PATTERN GLASS

PRICE PER SQUARE FOOT											
GLASS			SHEET SIZE		PRICE	GLASS			SHEET SIZE		PRICE
			W	H					W	H	
1/8"	Pattern #62		72	84	3.971	1/4"	Pattern #62		72	84	5.516
1/8"	Velour on Soda Lime		65	96	6.111	1/4"	Rain		72	84	6.318
						1/4"	Reeded		72	100	9.982
						1/4"	Velour on Soda Lime		96	130	# 6.273
						3/8"	Rain		60 72 72	84 84 96	12.289
						3/8"	Reeded		72	84	
						3/8"	Rolled Cast Glass		72	96	
						3/8"	Velour on Soda Lime		96	130	# 9.297
						3/8"	Velour on Starphire		96	130	# 17.578
						1/2"	Velour on Soda Lime		96	130	# 14.455

#Jumbo sheet stock – Split charges apply // WSD will not deliver jumbo stock sheets

CUT-TO-SIZE

**WSD WILL NOT TEMPER
CUSTOMER'S FABRICATED GLASS**

PRICE PER SQUARE FOOT

FABRICATION

		PRICE	
		ANNEALED	TEMPERED

PLATE GLASS

SS	Non-Glare (36" x 48" max)	9.12	
SS	Non-Glare (40" x 60" max)	18.00	

SS	Clear Plate	2.33	
DS	Clear Plate	3.21	4.01
3/16"	Clear Plate	3.53	4.77
1/4"	Clear Plate	3.66	4.96
3/8"	Clear Plate	7.38	7.84
1/2"	Clear Plate	8.55	10.80

1/4"	Optiwhite	8.27	9.20
3/8"	Optiwhite	16.82	18.85
1/2"	Optiwhite	21.38	28.48
3/4"	Optiwhite	50.92	

3/16"	Robax®	59.35	
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TINTED GLASS

1/8"	Bronze/Grey Plate	7.22	7.42
3/16"	Bronze/Grey Plate	7.88	7.92
1/4"	Bronze/Grey Plate	8.13	8.23
3/8"	Bronze/Grey Plate	22.64	25.95
1/8"	Midnight Grey	9.22	17.76

LAMINATED

1/4"	.030 Clear Laminated	11.63	
1/4"	.030 Bronze Laminated	13.09	
1/4"	.030 Grey Laminated	13.09	
1/4"	.030 Green Laminated	13.09	
1/4"	.030 Hue White Laminated	15.39	

MIRROR

1/8"	Clear Mirror	5.20	
3/16"	Clear Mirror	6.23	
1/4"	Clear Mirror	6.40	

1/4"	Grey Mirror	11.02	
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1/4"	Antique Mirror-Clear ¹	12.89	
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1/4"	Clear Laminated Mirror	19.92	
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		PRICE	
		ANNEALED	TEMPERED

LOW E (ENERGY ADVANTAGE)

1/8"	Low E (Energy Advantage)	7.30	8.22
3/16"	Low E (Energy Advantage)	8.92	9.90

PATTERN GLASS

1/8"	German New Antique	22.78	
1/8"	Pattern #62	6.75	7.58
1/8"	Velour on Soda Lime	7.17	7.92

5/32"	Cottswald	12.11	
5/32"	Flemish	15.59	
5/32"	Renaissance	11.83	

3/16"	Aquatex	6.58	7.61
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1/4"	Aquatex	11.31	13.75
1/4"	Flemish	17.78	20.20
1/4"	Pattern #62	9.77	11.43
1/4"	Rain	9.82	11.57
1/4"	Reeded	18.54	20.85
1/4"	Velour on Soda Lime	7.74	9.51

3/8"	Rain	17.83	20.53
3/8"	Reeded	22.88	24.67
3/8"	Rolled Cast Glass	35.50	38.40
3/8"	Velour on Soda Lime	13.98	16.58
3/8"	Velour on Starphire	26.76	29.35

1/2"	Velour on Soda Lime	19.81	22.37
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All pattern glass orders are to be drawn as viewed from smooth side.

Refer to CUT-TO-SIZE SPECIFICATIONS (page 7) to determine accurate sq ft calculations.

¹Antique Mirror is sold "as-is". This is a custom fabricated product and is not held to normal industry specifications.

*Discontinued Patterns - Limited quantities, call for availability.

CUT-TO-SIZE SPECIFICATIONS

SPECIFICATIONS & ADDITIONAL CHARGES

		GLASS THICKNESS						
	DS & SS	5/32	3/16"	1/4"	3/8"	1/2"	3/4"	
Minimum Quantities								
Annealed - Translucent & Mirror per order		1 sq ft - All glass thicknesses						
Annealed - Pattern Glass		1 sq ft per piece		3 sq ft per order				
Annealed - Robax		No Min.						
Tempered - All Glass Types per piece		3 sq ft - All glass thicknesses						
Dimensions & Tolerances								
Out of Square		WSD does not charge for out of square conditions (except for Double Out Conditions)						
Double Out Condition Available on seamed or polished only		\$95.00						
Tolerances		±1/16"	±1/16"	±1/16"	±1/16"	±1/8"	±1/8"	±3/16"
Hold Exact Size		Add 20% to order						
Edgework Requirements								
Annealed		All annealed shipped goods will be seamed // Seaming charges apply (see page 8)						
Tempered		All tempered includes seaming in tempering price					Satin Polish (charges apply)	
Size Charges								
Undersize Items		Lites with a width of less than 10" will be calculated as a minimum of 10" All glass thicknesses						
Undersize Charge Charged on items less than 8" down to 2" that require bevel or miter						\$110.00	\$110.00	\$110.00
Oversize Charge (per piece)		\$28.00 multiplied by Oversize Quantity						
Oversize Quantity = sq ft of piece / thickness figure Note: Oversize Quantity must be 1 or greater for oversize charge to apply	Oversize Quantity Example (using ¼" glass) $\frac{\text{sq ft of piece}}{\text{thickness figure}} = \frac{36 \text{ sq ft}}{24 \text{ sq ft}} = 1.5$	Thickness Figure (below)						
		24 sq ft	24 sq ft	20 sq ft	15 sq ft	7 sq ft		
Tempered Oversize Charge Charged on glass ≥120"		Add 75% to square foot price						
Other Charges								
EnduroShield - Includes Both Sides		Add \$3.85 per sq ft X sq ft of piece						
Tempering Limitations - Additional tempering limitations can be found on page 11								

EDGE TREATMENTS

STRAIGHT LINE EDGE TREATMENT					PRICE PER INCH		
ALWAYS USE NEXT EVEN INCH x PRICE OF EDGE WORK							
GLASS THICKNESS							
TREATMENT	1/8"	3/16"	1/4"	1/4" LAMI	3/8"	1/2"	3/4"
Seamed Edge	0.064	0.064	0.064	0.064	0.122	0.162	0.229
Flat Polish Edge	0.095	0.095	0.095	1.134 ¹	0.202	0.271	0.405
½" Bevel	0.188	0.135	0.135		0.343	0.405	0.648
¾" Bevel		0.174	0.174		0.386	0.445	0.702
1" Bevel		0.224	0.224		0.436	0.500	0.796
1 ¼" Bevel		0.271	0.271		0.486	0.548	0.919
1 ½" Bevel		0.365 NT	0.365 NT		0.585	0.658	1.107
2" Bevel NT			1.215 NT		1.478 NT	1.663 NT	2.754 NT
Double Bevel NT			Quote		Quote	Quote	Quote
Dual Bevel NT					Quote	Quote	Quote
0-45° Miter			0.811		0.946	1.148	1.499
Chamfer					0.946	1.148	1.499
Pencil Polish	Pencil Polish Minimum \$26.25		0.513		0.581	0.662	1.148

SHAPE / DIAMETER EDGE TREATMENT					PRICE PER INCH		
ALWAYS USE NEXT EVEN INCH x PRICE OF EDGE WORK							
GLASS THICKNESS							
TREATMENT	1/8"	3/16"	1/4"	1/4" LAMI	3/8"	1/2"	3/4"
Seamed Edge	0.064	0.064	0.064	0.064	0.122	0.162	0.229
Flat Polish Edge		0.513	0.513	1.134 ¹	0.581	0.662	1.148
½" Bevel	0.960	0.960	0.960		1.107	1.189	2.113
¾" Bevel		1.040	1.040		1.201	1.282	2.268
1" Bevel		1.134	1.134		1.282	1.364	2.458
1 ¼" Bevel		1.201	1.201		1.432	1.518	2.713
1 ½" Bevel			1.756 NT		1.917	2.032	3.659
Double Bevel NT					Quote	Quote	Quote
Dual Bevel NT					Quote	Quote	Quote
Pencil Polish			0.513		0.581	0.662	1.148

REQUIREMENTS & ADDITIONAL CHARGES

Polish 5 to 8 straight-sided pieces – Requires shapes polish

Pieces greater than or equal to 120" in length – Requires shapes polish

Trapezoids and parallelograms – Requires shapes polish

Bevel 5 to 8 straight-sided pieces – Add 35% to order (Use straight line bevel charge)

Special degree bevel – \$33.50 Setup plus per inch bevel

Add 35% to Edge Treatment for customer supplied glass

MINIMUM CHARGES

Straight Line Edge Work on Bevel Only – \$16.50 per order

Shape Edge Treatment – \$32.50 per piece

2" Bevel – \$33.50 Setup Charge plus \$58.30 Edge Work minimum

NT - Not able to be tempered

¹ - Laminated requires minimum width of 4" in order to polish

See page 12 for profiles of edge treatments.

CORNERS, NOTCHES, HOLES

PRICE PER EACH							
GLASS THICKNESS							
CORNERS (per corner unless otherwise stated)	1/8"	3/16"	1/4"	1/4" LAMI	3/8"	1/2"	3/4"
Setup Charge							
Flat (or Pencil) Polish Radius Corner up to 10" (Max 4 corners per piece) Add one (1) Setup Charge for up to (4) corners plus Shape Edge Treatment (per inch) for entire perimeter Radius Corner on 1/8" - Seamed or Satin Polish Only	12.50	12.50	12.50		21.00	28.50	42.50
	Seam: 0.064 Satin: 0.513	0.513	0.513		0.581	0.662	1.148
Clipped Corners up to 6" x 6" (Max 4 corners per piece) Requires Shape Edge Treatment	12.50	12.50	12.50		21.00	28.50	42.50
1" Bevel (Illustration on page13)			21.179		21.179	28.298	56.585
1 ½" Bevel (Illustration on page13)			21.179	NT	21.179	28.298	56.585
1", 1 ½" Beveled Radius Corner NT (Illustration on page 13)			56.585	NT	56.585	63.683	91.854
				NT	NT	NT	NT
Bump Corners	1.407	1.407	1.407	3.497	3.497	7.046	10.290
HOLES							
1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"	4.50	4.50	4.50		7.75	10.00	35.00
1", 1 1/16", 1 3/16", 1 1/4", 1 1/2", 1 5/8", 1 3/4", 2", 2 1/4", 2 1/2"	7.00	7.00	7.00		14.25	16.00	45.00
3" to 8"	21.00	21.00	21.00		39.00	48.00	62.50
Countersink Holes Up to 1 1/2" diameter Countersink	Hole Pricing 2X						
Relief Cuts - If needed	Hole Pricing 2X						
NOTCHES – MILLED SATIN ARIS EDGE // ALL NOTCHES HAVE 3/8" RADIUS (MINIMUM)							
Hinge/Clip Notch		15.00	15.00		18.00	21.00	
Edge/Corner – Minimum Charge up to 30 U.I. Replaces Edge Notch (Hinge Notch)		33.00	33.00		46.00	52.00	67.50
Edge/Corner – > 30 U.I. to 100 U.I. (per inch)		1.158	1.158		1.620	1.826	2.367
Edge/Corner – >100 U.I.		Quote	Quote		Quote	Quote	Quote
INTERNAL CUTOUT – MILLED SATIN ARIS EDGE // ALL CUTOUTS HAVE 3/8" RADIUS (MINIMUM)							
Single Switch Cutout (Std. Size - 2 1/4" x 4 1/2")		22.50	22.50				
Double Switch Cutout (Std. Size - 4 1/4" x 4 1/2")		22.50	22.50				
Internal Cutout – Minimum Charge up to 30 perimeter inches		33.00	33.00		46.00	52.00	67.50
Internal Cutout – > 30 in. to 100 in. (per inch)		1.158	1.158		1.620	1.826	2.367
Internal Cutout – > 100 in.		Quote	Quote		Quote	Quote	Quote
SANDBLASTED PLATE RAIL – \$32.50 Setup Charge per piece + \$2.142 per inch							
V-GROOVE – Please send drawings for quote							
ETCHED FINGER PULL– \$52.50 - Standard Size 5/8" x 2 3/4"							

PATTERNS

PATTERN CHARGES –

PATTERN CHARGE

Diameter Patterns on 3/8" & 1/2"	25.00
Diameter Patterns on 3/4" & Lami	45.00
Patterns for thicknesses on glass ≤3/16" with a seamed edge	25.00
Patterns on all other glass thicknesses with a seamed edge & Patterns on all glass thicknesses with a polished or beveled edge	60.00
Patterns on laminated glass	80.00

Even if quoted without - if a physical pattern is sent to WSD; the pattern charge will be added.

PATTERN PICKUP - Please indicate pattern material, approximate size, etc. so that we can plan delivery needs to accommodate the pattern pickup/return.

ADDITIONAL CHARGES - Fabrication and edgework charges will apply in addition to the listed pattern charge above.

BLOCK SIZE CALCULATIONS – Additional material is required during the fabrication process to create a quality pattern. Use the following table to find your glass thickness and add the listed measurement to each dimension to determine the correct block size needed for your pattern.

THICKNESS	ADD TO EACH DIMENSION
1/8"	2"
3/16"	
1/4"	
3/8"	4"
1/2"	
3/4"	6"

CUTOUTS – Customers are responsible for cutting out patterns. A full size pattern is required for shapes other than squares, rectangles & diameters. **If WSD cuts out pattern, we are not responsible for final fit.** Tolerances (see pg 7) still apply to all patterns.

DIAMETERS - Diameters/Patio Tables of 38" or greater on 3/16" & 1/4" pattern glass will be charged the proportional square footage of a stock sheet of pattern glass at cut-to-size pricing.

MATERIAL – Reference the following chart for acceptable pattern materials. WSD will return all patterns submitted on unacceptable materials.

ACCEPTABLE	UNACCEPTABLE
Luan	Tissue Paper
Masonite	Wrapping Paper
White Butcher Paper	Broken Glass
Glass	Newspaper
Cardboard	
Brown Kraft Paper*	
Rosin Paper*	

PATTERN MATCHING - WSD will match the submitted pattern; not dimensions. **Submitted patterns must specify viewing from smooth or textured surface.**

***QUALITY** – The quality of the pattern that you send to WSD directly impacts the quality of the finished goods. WSD reserves the right to refuse/return patterns for poor quality.

TEMPERING LIMITATIONS

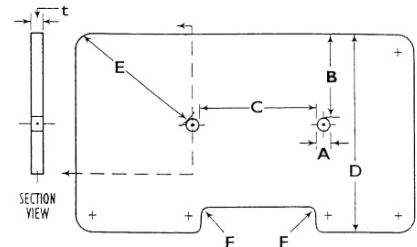
HOLES AND NOTCHES – This chart should be used to determine minimum sizes and placement of holes and notches in tempered glass:

GLASS THICKNESS (t)	1/8"	3/16"	1/4"	3/8"	1/2"	GENERAL RULE
Minimum Diameter of Holes (A)	1/4"	1/4"	1/4"	3/8"	1/2"	$A \geq t$
Distance from Hole Rim to Edge of glass (B)	1/4"	3/8"	3/8"	9/16"	3/4"	$B \geq 1.5t$
Distance between rims of holes (C)	3/8"	3/8"	1/2"	3/4"	1"	$C \geq 2t$ and $3/8"$
Distance from Corner to Rim of Hole (E)	13/16"	1 7/32"	1 5/8"	2 7/16"	3 1/4"	$E \geq 6.5 \times t$
Minimum Fillet Radius (F)	3/8"	3/8"	3/8"	3/8"	3/8"	

- Countersink holes require technical review and approval before order acceptance.
- Large holes and notches greater than 1/3 the narrow dimension require technical review and approval.

HOLE AND NOTCH LOCATION TOLERANCES

- For dimensions of hole center from specified edge $\pm 1/16"$
- For dimensions between hole centers $\pm 1/16"$
- Chips and flakes will not exceed $1/16"$
- Notch dimensions for glass 1/4" and under $\pm 1/16"$
- Notch dimensions for 3/8" and 1/2" $\pm 1/8"$



TEMPERED SIZE RANGE – Three (3) square foot minimum, odd or fractional dimensions will be billed at the next higher even inch.

THICKNESS	MINIMUM SIZE	MAXIMUM SIZE	GLASS SIZE TOLERANCE
1/8"	5" x 11"	32" x 74"	±1/16"
3/16"		72" x 120"	
1/4"	3" x 11"	84" x 130"	±1/8"
3/8" - 1/2"			
Glass over 120" add 75% to appropriate square foot price			Hold to exact size - Add 20% to order

EDGE TREATMENT – Tempered glass has seamed edges unless ordered with polished edges. The seamed edge is not a suitable exposed finished edge. 1/2" tempered glass requires satin polished edge (charges apply).

TEMPERED CERTIFICATION LOGO – Tempered glass is permanently labeled unless ordered "NO LOGO".

DISTORTION – Heat treating adds distortion to glass products. All requirements for distortion, roller wave, consistent furnace orientation or distortion measurement must be disclosed at quotation and order.

STRAIN PATTERN – Tempered glass contains a strain pattern or "Quench Marks" that appear as areas of shadows in a pattern corresponding to the location of air nozzles in the tempering furnace quench section. This condition becomes more visible:

- Under certain lighting conditions, like polarized sunlight
- When the glass is viewed at glancing angles
- With tinted glass, especially when multiple lites are combined in laminated and insulating constructions

The strain pattern is not considered a defect in tempered glass products.

SPONTANEOUS BREAKAGE – Tempered glass is subject to rare spontaneous breakage, where the glass will break for no apparent reason.

INSTALLATION – Monolithic low light transmitting glass (i.e. Midnight Grey, Low-E, 3/8" and 1/2" Bronze and Grey) should be glazed with a consistent tin side/ air side orientation.

CRATING – WSD no longer offers crating as a delivery option.

FABRICATION – All fabrication that penetrates the glass surface (i.e. holes, notches, sand blasting, cutting) must take place prior to tempering.

GLASS QUALITY – All tempered glass shall conform to Consumer Product Safety Commission (CPSC) Standard 16 CFR 1201.

CERTIFICATE OF TEMPERING – Certificate of tempering are available upon request.

CHANGES or CANCELLATIONS – Materials are put into production upon order generation. Any modifications requested after acknowledgment of order will be billed for the cost of completed materials and a \$25.00 processing fee.

EDGE WORK PROFILES

EDGEWORK INCLUDES HIGH POLISH EXCEPT AS NOTED*

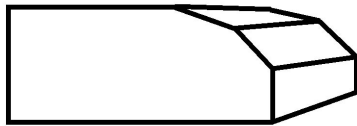
FABRICATION



Beveled Edge*

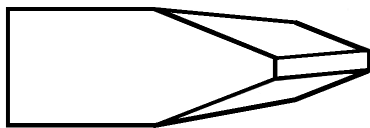
Available on 1/8", 1/4", 3/8", 1/2", 3/4" glass thickness

*Satin Edge only on glass up to 1/4"
High Polish on 3/8" & 1/2"



Double Beveled Edge

Available on 1/4", 3/8", 1/2", 3/4" glass thickness



Dual Beveled Edge

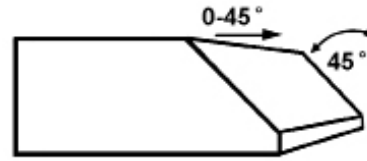
Available on 3/8", 1/2", 3/4" glass thickness



Flat Polish Edge

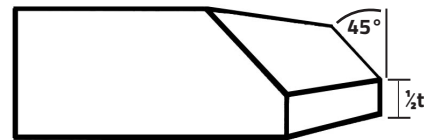
Available on 3/16", 1/4", 3/8", 1/2", 3/4" glass thickness

TOP VIEW



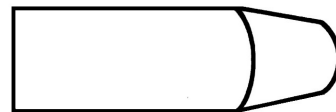
0-45° Miter Edge

Available on 1/4", 3/8", 1/2", 3/4" glass thickness



Chamfer Edge

Available on 3/8", 1/2", 3/4" glass thickness

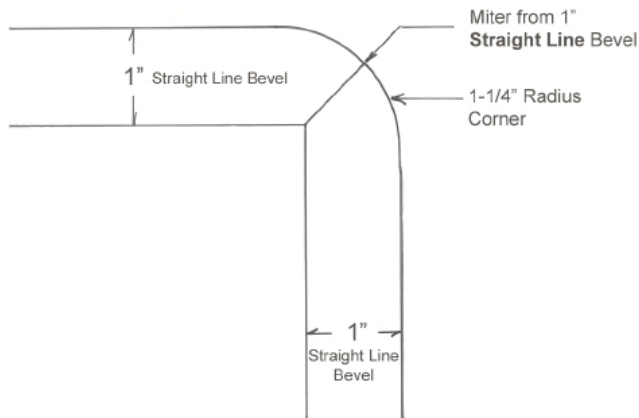


Pencil Polish Edge

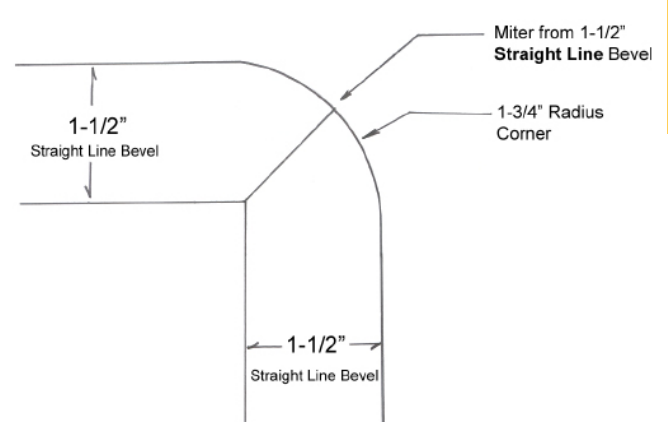
Available on 1/4", 3/8", 1/2", 3/4" glass thickness

BEVELED STRAIGHT LINE ILLUS.

1" straight line bevel with 1-1/4" radius corner to retain 1" bevel at radius corner.



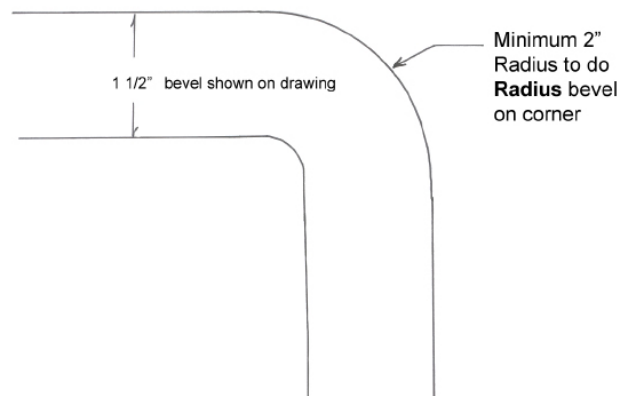
1-1/2" straight line bevel with 1-3/4" radius corner to retain 1-1/2" bevel at radius corner.



FABRICATION

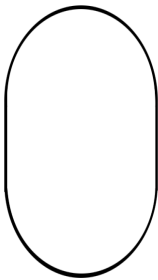
BEVELED RADIUS CORNER ILLUS.

1" or 1-1/2" beveled radius corner - minimum 2" radius on outside corner.

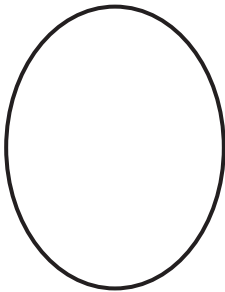


SHAPES

FABRICATION



Race Track



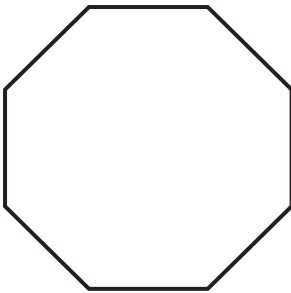
Oval/Elliptical

Requires a pattern



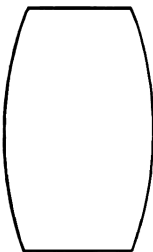
Queen Anne

Requires a pattern



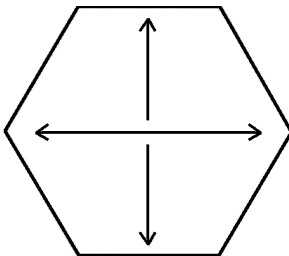
Octagon

Measure flat to flat or requires a pattern



Boat

Requires a pattern



Hexagon

Measure point to point and flat to flat or requires a pattern

FORMULAS FOR CALCULATING INCHES ON SHAPES

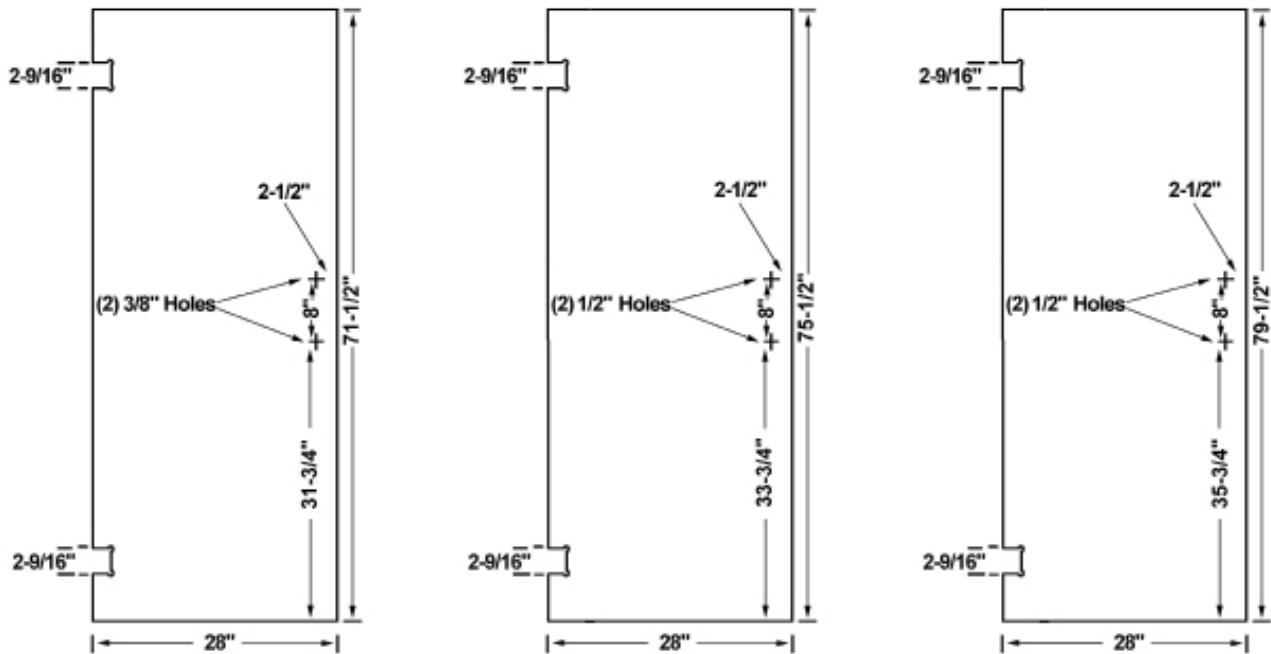
Radius Top	Width x 1.6
Ovals (Ellipticals)	(Length + Width) x 1.7
Circle	Diameter x 3.14
Octagon (8 equal sides)	Width x 3.4
Hexagon (6 equal sides)	Width x 3

STOCK TEMPERED - DOOR BLANKS

DOOR BLANK SIZE

	28" x 71 1/2"	28" x 75 1/2"	28" x 79 1/2"
3/8" Clear Glass Door Blank	145.00	151.00	158.00

Door Blank Features: 3/8" clear glass, polished on all edges, 8" CTC 1/2" holes for handles and 2 notches for hinges



TEMPERED

STANDARD DOOR HEIGHTS FOR HEAVY GLASS STANDARD HINGE DOOR BLANKS

	OVERALL HEIGHT	OVERALL HEIGHT WITH A SC-915 CURB
28" x 71 1/2"		
Stand alone	72"	72 7/16"
SC-646 Header	73 7/8"	74 5/16"
Horizon Header	73 1/2"	73 15/16"
28" x 75 1/2"		
Stand alone	76"	76 7/16"
SC-646 Header	77 7/8"	78 5/16"
Horizon Header	77 1/2"	77 15/16"
28" x 79 1/2"		
Stand alone	80"	80 7/16"
SC-646 Header	81 7/8"	82 5/16"
Horizon Header	81 1/2"	81 15/16"

STANDARD DOOR HEIGHTS FOR HEAVY GLASS PIVOT HINGE DOOR BLANKS

	OVERALL HEIGHT	OVERALL HEIGHT WITH A SC-915 CURB
28" x 71 1/2"		
Stand alone	72"	72 7/16"
SC-646 Header	74"	74 7/16"
Horizon Header	73 1/2"	73 15/16"
28" x 75 1/2"		
Stand alone	76"	76 7/16"
SC-646 Header	78"	78 7/16"
Horizon Header	77 1/2"	77 15/16"
28" x 79 1/2"		
Stand alone	80"	80 7/16"
SC-646 Header	82"	82 7/16"
Horizon Header	81 1/2"	81 15/16"

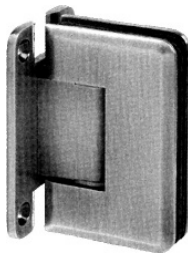
WALL TO GLASS HINGES

TEMPERED

HINGE	FINISH	DOOR BLANK SIZE		
		28" x 71 1/2"	28" x 75 1/2"	28" x 79 1/2"
Premier Package	Chrome	246.00	252.00	259.00
	Brushed Nickel	251.00	257.00	264.00
	Oil Rubbed Bronze (dark)	239.00	245.00	252.00
	Matte Black	263.00	269.00	276.00
Symphony Package	Chrome	263.00	269.00	276.00
	Brushed Nickel	247.00	253.00	260.00
	Oil Rubbed Bronze (medium)	281.00	287.00	294.00
	Matte Black	262.00	268.00	275.00

Each package will include a door blank (3/8" clear glass, polished on all edges, 8" CTC 1/2" holes for handles and 2 notches for hinges), 2 hinges and an 8" back to back C-Pull. Packages DO NOT include polycarbonate components. Available in 0° as priced.

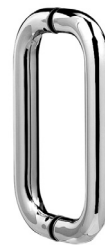
For 5° Hinges - Add \$15.00 to value package price.



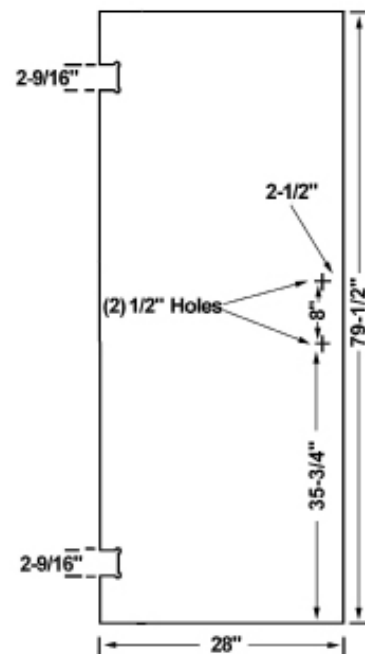
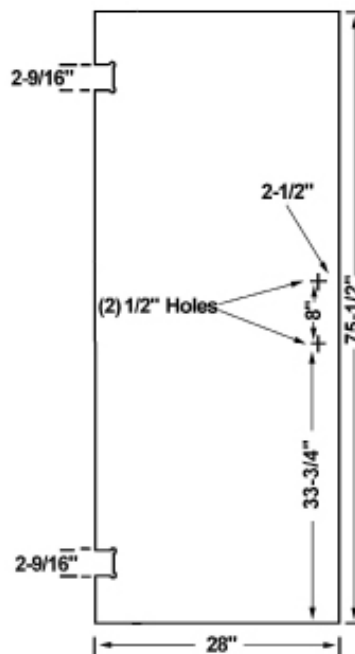
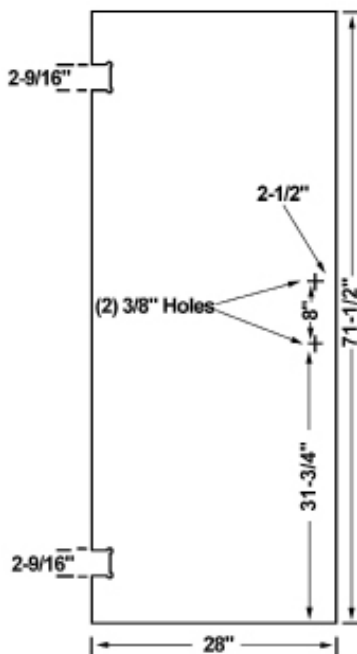
US Horizon Premier Hinge
Wall to Glass hinge with full plate.



Portals Symphony Hinge
Wall to Glass with full plate.



8" Back to Back C-Pull



180° GLASS TO GLASS HINGES

HINGE	FINISH	DOOR BLANK SIZE		
		28" x 71 1/2"	28" x 75 1/2"	28" x 79 1/2"
Premier Package	Chrome	311.00	317.00	324.00
	Brushed Nickel	318.00	324.00	331.00
	Oil Rubbed Bronze (dark)	324.00	330.00	337.00
	Matte Black	363.00	369.00	376.00
Symphony Package	Chrome	321.00	327.00	334.00
	Brushed Nickel	284.00	290.00	297.00
	Oil Rubbed Bronze (medium)	383.00	389.00	396.00
	Matte Black	331.00	337.00	344.00

Each package will include a door blank (3/8" clear glass, polished on all edges, 8" CTC 1/2" holes for handles and 2 notches for hinges), 2 hinges and an 8" back to back C-Pull. Packages DO NOT include polycarbonate components. Available in 0° as priced.

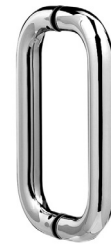
For 5° Hinges - Add \$15.00 to value package price.



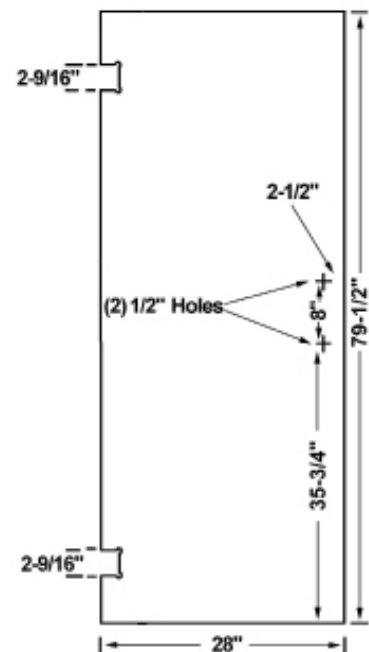
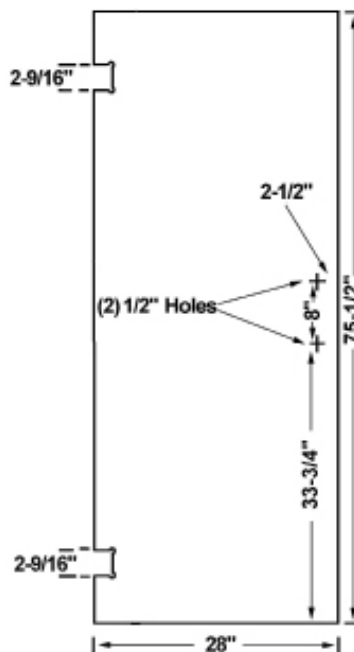
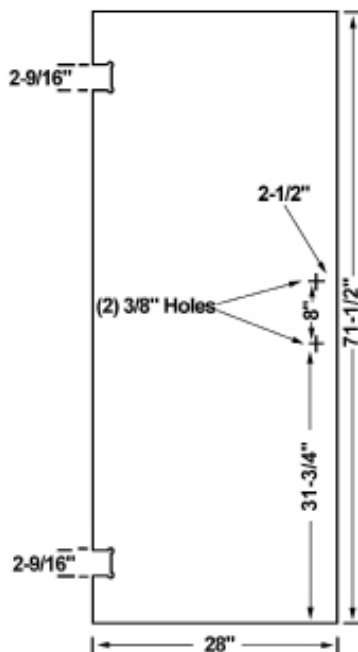
US Horizon Premier Hinge
180° Glass to Glass hinge.



Portals Symphony Hinge
180° Glass to Glass hinge.



8" Back to Back C-Pull



TEMPERED

PIVOT HINGES

**NON-STOCK ITEMS
STANDARD FABRICATION &
DELIVERY TIMES APPLY**

HINGE	FINISH	DOOR BLANK SIZE		
		28" x 71 1/2"	28" x 75 1/2"	28" x 79 1/2"
Montreal Package	Chrome	304.00	310.00	317.00
	Brushed Nickel	314.00	320.00	327.00
	Oil Rubbed Bronze (dark)	317.00	323.00	330.00
	Matte Black	324.00	330.00	337.00

Each package will include a door blank (3/8" clear glass, polished on all edges, 8" CTC 1/2" holes for handles and 2 notches for hinges), 2 pivot hinges and an 8" back to back C-Pull. **Packages DO NOT include polycarbonate components. Available in 0° as priced.**

For 5° Hinges - Add \$15.00 to value package price.

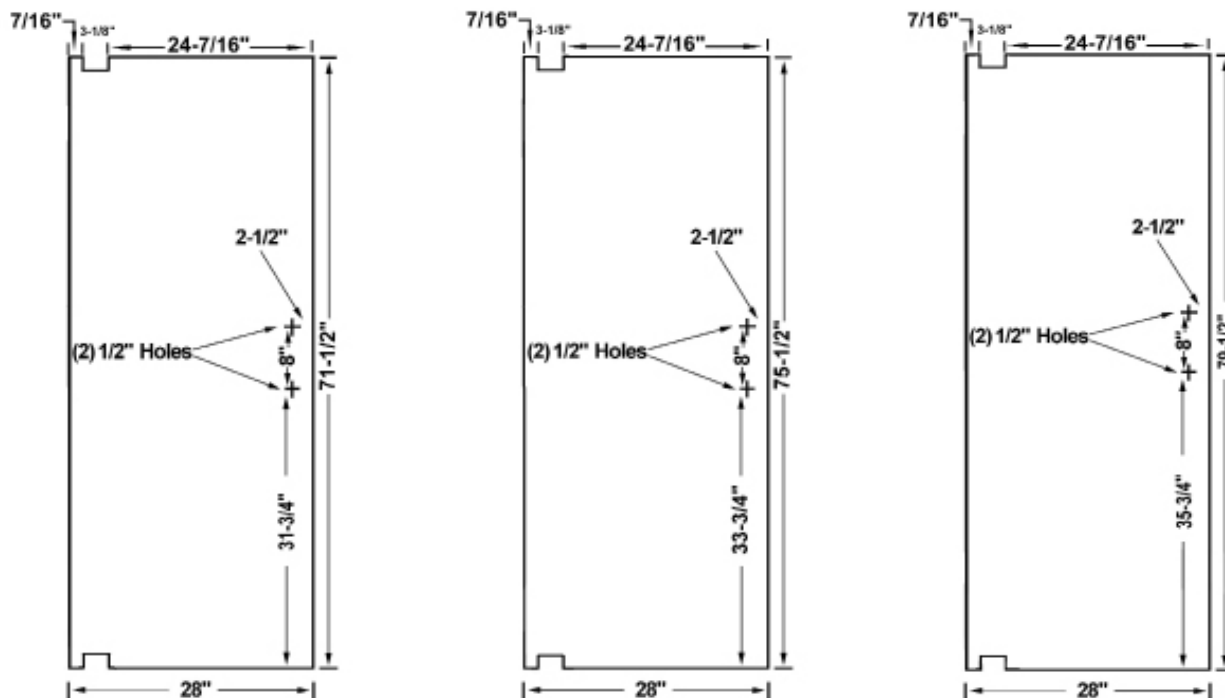
TEMPERED



US Horizon Montreal Hinge

Beveled pivot hinge, ceiling or curb mount.

8" Back to Back C-Pull



STANDARD SIZE MIRRORS

**NON-STOCK ITEMS
STANDARD FABRICATION &
DELIVERY TIMES APPLY**

STANDARD SIZES	POLISHED			1/2" BEVEL			1" BEVEL		
	VOLUME PRICING			VOLUME PRICING			VOLUME PRICING		
	1-24	25-49	50+	1-24	25-49	50+	1-24	25-49	50+
24" x 30"	33.11	31.70	30.39	36.17	34.62	33.20	42.96	41.12	39.43
24" x 36"	39.08	37.41	35.87	42.48	40.66	38.99	50.02	47.88	45.91
30" x 36"	47.63	45.59	43.72	51.38	49.18	47.16	59.67	57.12	54.77
36" x 36"	56.18	53.78	51.57	60.27	57.69	55.32	69.32	66.35	63.63
42" x 36"	64.73	61.96	59.41	69.16	66.20	63.48	78.96	75.58	72.47
48" x 36"	73.29	70.15	67.27	78.05	74.71	71.64	88.61	84.82	81.33
54" x 36"	81.84	78.34	75.12	86.95	83.23	79.81	98.26	94.05	90.19
60" x 36"	90.39	86.52	82.97	95.84	91.74	87.97	107.90	103.28	99.04
66" x 36"	98.94	94.70	90.81	104.73	100.25	96.13	117.55	112.52	107.89
72" x 36"	107.49	102.89	98.66	113.62	108.76	104.29	127.20	121.75	116.75
24" x 40"	43.06	41.22	39.53	46.69	44.69	42.86	54.73	52.39	50.24
30" x 40"	52.47	50.23	48.16	56.44	54.03	51.81	65.24	62.45	59.88
36" x 40"	61.88	59.23	56.80	66.20	63.37	60.76	75.75	72.51	69.53
42" x 40"	71.30	68.25	65.44	75.95	72.70	69.71	86.25	82.56	79.17
48" x 40"	80.71	77.26	74.08	85.70	82.03	78.66	96.76	92.62	88.81
54" x 40"	90.12	86.26	82.72	95.45	91.36	87.61	107.27	102.68	98.46
60" x 40"	99.53	95.27	91.35	105.21	100.71	96.57	117.78	112.74	108.10
66" x 40"	108.94	104.28	99.99	114.96	110.04	105.52	128.28	122.79	117.74
72" x 40"	118.36	113.29	108.64	124.71	119.37	114.46	138.79	132.85	127.39
24" x 42"	45.05	43.12	41.35	48.80	46.71	44.79	57.09	54.65	52.40
30" x 42"	54.89	52.54	50.38	58.98	56.46	54.14	68.03	65.12	62.44
42" x 42"	74.58	71.39	68.46	79.34	75.94	72.82	89.90	86.05	82.52
48" x 42"	84.42	80.81	77.49	89.53	85.70	82.18	100.84	96.52	92.56
54" x 42"	94.26	90.23	86.52	99.71	95.44	91.52	111.77	106.98	102.59
60" x 42"	104.10	99.64	95.55	109.89	105.19	100.86	122.71	117.46	112.63
66" x 42"	113.95	109.07	104.59	120.07	114.93	110.21	133.65	127.93	122.67
72" x 42"	123.79	118.49	113.62	130.26	124.68	119.56	144.58	138.39	132.70

MIRRORS

Standard Size Mirrors Tolerance - $\pm 1/4"$

Boxing charge for Standard Size Mirrors & Door Mirrors: Up to 42" – \$9.50 // For 48" up to 72" – \$13.25

SAFETY BACKING

Safety backing provides shatter resistance and keeps glass fragments together should mirrors be accidentally broken. Recommended for mirrored wardrobe doors, bi-fold doors, large mirror walls and furniture mirrors.

Labor Charge (per pull)
Each pull covers ~36" // Multiple labor charges apply if width is greater than 36" \$20.00 per pull

Material Charge (per foot)
OA length rounded to nearest foot + 1' times the number of labor charges \$2.55 per foot

Add Holes (approx. 5" diam.) in CAT II for Mastic Installation
Double Labor Charge

DOOR MIRRORS

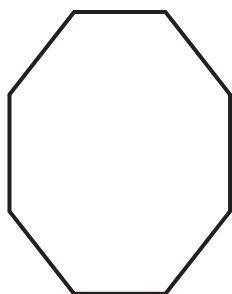
**NON-STOCK ITEMS
STANDARD FABRICATION &
DELIVERY TIMES APPLY**

STANDARD SIZES		FLAT POLISH	1/2" BEVEL
16" x 68"	1/4" Clear Mirror	50.35	55.12
18" x 68"	1/4" Clear Mirror	55.49	60.37
20" x 68"	1/4" Clear Mirror	60.64	65.63
22" x 68"	1/4" Clear Mirror	65.78	70.89
24" x 68"	1/4" Clear Mirror	70.93	76.15

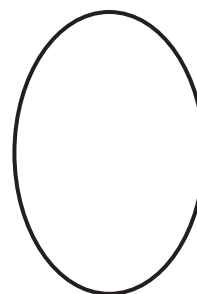
Boxing charge for Standard Size Mirrors & Door Mirrors: Up to 42" – \$9.50 // For 48" up to 72" – \$13.25

MIRRORS

IMPORTED FRAMELESS SHAPES*



OCTAGON	1" BEVEL
22" x 28"	3/16" Clear Mirror 51.11



OVAL	1" BEVEL
21" x 31"	3/16" Clear Mirror 57.80
24" x 37"	3/16" Clear Mirror 69.27

Imported Frameless Shapes include backer with individual carton

*Imported Frameless Shapes are sold "as-is". These are not custom mirrors and are not held to normal industry specifications.

MIRROR WARRANTY

Wisconsin Shower Door warrants upon, and subject to the following terms and conditions, that if, under normal usage, as defined below, significant deterioration of the silver should occur during a period of five (5) years from the date of manufacture of the mirror it will within a reasonable time, as its option, either refund the purchase price of the mirror, or deliver a replacement mirror.

Conditions, Exclusions and Limitations

Mirror breakage from any cause is not covered by this warranty.

Subject to normal conditions and usage shall, for the purpose of this warrant, mean an installation in the interior of a building.

This warranty shall be void in each of the following circumstances

- (1) Shipping & Handling - If the mirror is damaged by improper shipping, handling or storage.
- (2) Installation - If the Mirror is not installed in accordance with normal industry practice. Never install mirrors on unpainted plaster, drywall or cement walls. The leaching of the lime in such will eat through the paint backing. Solvents in newly painted walls will also soften the paint backing. Adequate air-space between the Mirror and supporting wall or other surface must be left. In wet areas such as bathrooms and kitchens mirrors should be set up off the bases to prevent pooling of water at the bottom edge.

If the Mirror is installed in a shower door, or any other installation, without adequate provision being made to drain the water from the back and edges of the Mirror, or is installed in areas subjected to extreme temperature and/or humidity including, but not limited to, saunas, or the immediate surroundings of indoor swimming pools.

If the materials used to install the Mirror are not compatible with the backing paint and/or safety-backing on the Mirror, or if adhesive films/vinyl safety backing or other coatings are applied to the mirror, this includes the use of silicones and mastics. If silicone must be used ensure from the manufacture that it is compatible
- (3) Cleaning - Never use cleaners with Acid, Alkali or Ammonia bases, most household or glass cleaners are ammonia based. These will attack the mirror edges and backing causing blackened edges. Do not allow the mirror edges to remain wet. Cleaners should be applied with a soft cloth and wiped onto the mirror. Spray cleaners may cause "puddling" at the mirror edges.

I.G. UNIT FABRICATION

PRICE PER SQUARE FOOT						
GLASS				LOW – E (Energy Advantage)		LOW-E (7036 ClimaGuard)
				ANNEALED	TEMPERED	ANNEALED
SS	Clear	7.29				11.44
DS	Clear	7.29	9.61	10.74	13.47	11.44
3/16"	Clear	8.40	11.09	12.73	15.15	14.26
1/4"	Clear	8.90	11.61			
DS	Bronze/Grey	10.35	12.98	13.26	15.91	14.13
3/16"	Bronze/Grey	11.47	14.27	15.17	17.92	17.29
1/4"	Bronze/Grey	11.94	15.10			
1/8"	Pattern #62	11.35	13.51			
3/16"	Aquatex	14.02	15.13			
1/4"	.030 Clear Laminated	26.36				
DS	Clear Patio 34" x 76"		115.66		176.06	
5/32"	Clear Patio 46" x 76"		165.65		243.08	

SPECIAL SHAPES AND COMBINATIONS

Archtops	add 60%
Octagons	add 70%
Rectangle Grids (flat muntins avail in 5/8" & 3/4")	add \$3.75 per divided lite (available in green, bronze, champagne, beige, tan, white)
Contour Grids (see page 25)	add \$3.75 per divided lite (available in tan and white)
Trapezoids & Triangles	add 30%
Triple Glazed	add 65%
Argon for annealed and tempered units	add \$0.315 per sq. ft.; minimum order of \$3.15

INSULATED GLASS ORDER REQUESTS - SEND TO:

- igorders@wisconsinshowerdoor.com

Wisconsin Shower Door
I.G. Unit Fabrication
5803 Packer Drive
Wausau, WI 54401
P: 888.329.5194

I.G. UNIT SPECIFICATIONS

SPECIFICATIONS & ADDITIONAL CHARGES

I.G. UNITS USING GLASS THICKNESS

SS DS 3/16" 1/4"

Pricing Specifications

Insulated Glass Units
per unit

Pricing based on 3 sq ft minimum - All glass thicknesses

Size Calculation

Odd or fractional dimensions will be billed at next even inch

Changes or Cancellations

Materials are put into production upon order generation. Any modifications requested after acknowledgment of order will be billed for the cost of completed materials and a \$25.00 processing fee.

Dimensions & Tolerances

Maximum Area by Thickness

16 sq ft

16 sq ft

35 sq ft

42 sq ft

Tolerances

±1/16"

±1/16"

±1/16"

±1/8"

Hold Exact Size

Add 20% to order

I.G. Oversize Charge

Oversize Charge (per unit)

\$28.00 multiplied by Oversize Quantity

Oversize Quantity = sq ft of piece / thickness figure
Note: Oversize Quantity must be 1 or greater for oversize charge to apply

Oversize Quantity Example
(using 3/4" glass)

$$\frac{\text{sq ft of piece}}{\text{thickness figure}} = \frac{22.5 \text{ sq ft}}{15 \text{ sq ft}} = 1.5$$

Thickness Figure (below)

20 sq ft

15 sq ft

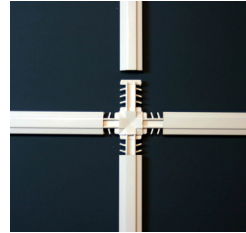
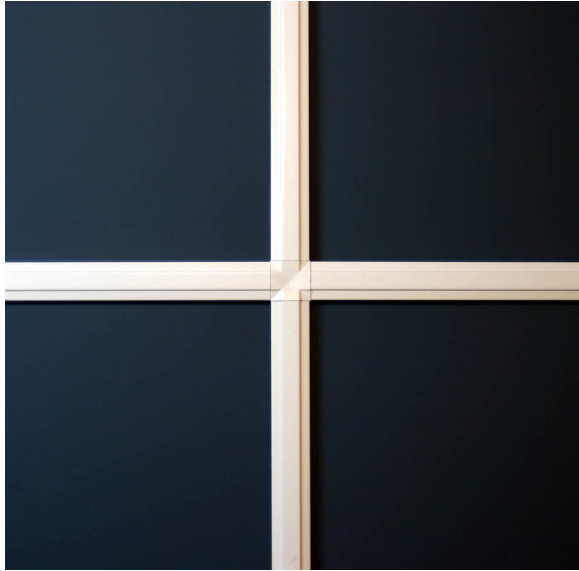
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Wisconsin Shower Door
I.G. Unit Fabrication
5803 Packer Drive
Wausau, WI 54401

P: 888.329.5194

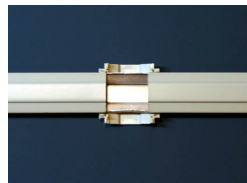
CONTOUR MUNTIN – IN-LINE CLIP



The muntins slide onto the in-line muntin clip.

CONTOUR MUNTIN – SNAP OVER CLIP

INSUL GLASS



One muntin is cut. One side of a snap over clip is placed at the intersection of the muntins.



The next muntin is placed over the clip and precut muntin.



The second side of the snap over clip is put into place and snapped together

I.G. DOOR UNITS

INSULATED GLASS DOOR UNITS FOR COMMERCIAL ENTRANCES

TUBELITE DOORLITES

30 9/16" x 76 1/16" x 1" OA

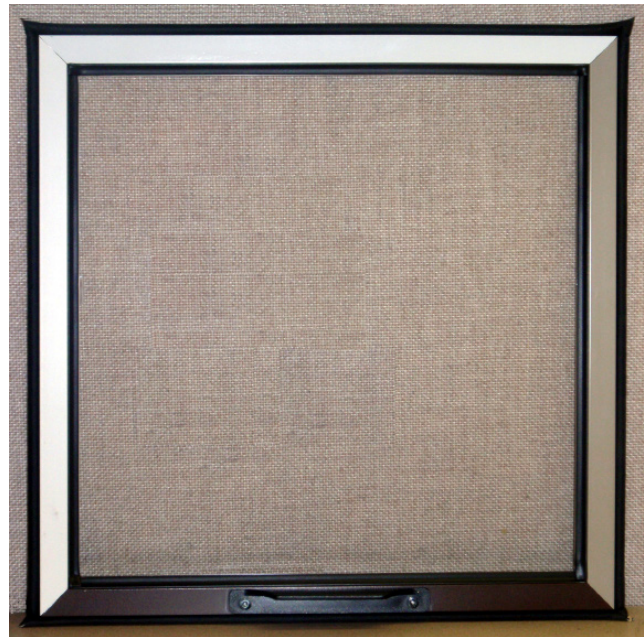
73.83

FOAMTITE STORM WINDOWS

FOAMTITE INTERIOR STORM WINDOWS

GLASS

UNITED INCHES	SS	DS
0-40	61.72	
41-50	71.53	
51-60	81.57	
61-70	91.85	
71-80	102.36	
81-90	113.11	
91-100		128.81
101-110		140.82
111-120		153.13



Helps reduce condensation.

Effective against damaging moisture on wood areas with finishes applied.

Replaces applying plastic on windows annually.

Fits in area used by window screen (operating windows).

Can be used with stationary units and other types of windows.

One (1) lift handle (black only) applied for easy handling.

Available in four colors:

- Bronze
- Driftwood
- White
- Mocha

With black Foamtite weatherstripping.

Extruded aluminum frame.

INSUL GLASS

I.G. UNIT LIMITED WARRANTY

For a period of ten (10) years from the date of purchase, Wisconsin Shower Door warranty is as follows: will not develop material obstruction of vision (on internal glass surfaces) as a result of dust or film formation caused by failure of hermetic seal. Glass is not warranted against breakage.

Precondition of this warranty is that all insulating glass units be installed in accordance to FGMA glazing manual standards and practices. Furthermore, all units must be installed in such manner as to completely repel water for the entire period of the warranty by use of approved sealants only.

This warranty does not apply to insulating glass units used in vehicles, commercial refrigeration, marine, swimming pool enclosures, greenhouses, airports, sloped applications, and skylights. **This warranty also does not apply to units manufactured with SuperSpacer.** We assume no responsibility for any damage due to thermal breakage or improper use or handling.

This warranty is made to our immediate customer only and all liability shall be limited to replacement of failed unit or refund of the original purchase price. No employee, dealer or agent for Wisconsin Shower Door is authorized to add or modify this warranty.

This warranty is the only warranty made, and it is made expressly in lieu of all other warranties and under no circumstances whatsoever shall we be liable in any way for incidental or consequential damages of any kind with regard to our product.

I.G. UNIT PERFORMANCE CHART

I.G. UNIT GLASS TYPE	% OF VISIBLE LIGHT TRANSMITTANCE	SOLAR HEAT GAIN COEFFICIENT	FADING TRANSMISSION	WINTER U-VALUE AIR / ARGON
Clear/Clear	81	.76	.59	.49 / .47
Clear/Pilkington Energy Advantage (Low E)	77	.75	.49	.33 / .28
Clear/Guardian 7036 ClimaGuard (Low E)	71	.38	.33	.29 / .24

VISIBLE LIGHT TRANSMITTANCE – The percentage of visible light (390 to 700 nanometers) within the solar spectrum that is transmitted through the glass.

SOLAR HEAT GAIN COEFFICIENT – The amount of solar radiation that enters the building as heat. The lower the number, the better the glazing is at preventing solar gain.

FADING TRANSMISSION – The portion of energy transmitted in a special region from 300 to 600 nanometers. This region includes all of the ultraviolet energy and part of the visible spectrum, and will give the best representation of relative fading rates. The lower the number, the better the glass is for reducing fading potential of interior furnishings.

U-VALUE – This represents the heat flow rate through a window expressed in BTU/HR/TR2/°F, using winter weather conditions of 0°F outside and 70°F inside. The lower the number, the better the window system is at reducing heat loss.

A

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ACI-29 Face Strip	26
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GMP 8C - Double Switch	27
GMP 9C - Triple Switch	27
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GMP 11C - Quad Switch	27
GMP 12C - Single G.F.I. / Decora	27
GMP 13C - Double G.F.I. / Decora	27
GMP 14C - Single G.F.I. / Switch	27
GMP 15C - Single G.F.I. / Double Switch	27
GMP 16C - Triple G.F.I. / Decora	27
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T

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Tri-View Mirror Frame	29

W

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Wheel Assembly	29

ANDSCOT METALS (Must be purchased in quantities of 2)

PROFILE	PART	SIZE/ QTY	SILVER	MATTE BLACK	BRUSHED NICKEL	OIL RUBBED BRONZE
	ACI-15 – Deep “J” Molding	12’	25.49	28.44	25.68	
	ACI-21 – Shallow “J” Molding	12’	25.46	28.44	25.68	30.04
	ACI-26 – L-Bar	12’	21.59			
	ACI-51 – Little Lip	12’	19.16			
	ACI-29 – Face Strip	12’	14.67		15.33	
	ACI-30 – End Cap Subject to availability	12’	11.85			

CLEAR MIRROR COVER PLATES

IMAGE	PART	SIZE/ QTY	PRICE
	GMP 2C – Single Outlet	each	16.16
	GMP 3C – Single Switch	each	12.40
	GMP 6C – Double Outlet	each	22.48
	GMP 7C – Outlet / Switch	each	18.39
	GMP 8C – Double Switch	each	14.46
	GMP 9C – Triple Switch	each	19.28
	GMP 10C – Outlet / Double Switch	each	21.15
	GMP 11C – Quad Switch	each	24.24
	GMP 12C – Single G.F.I. / Decora	each	18.61
	GMP 13C – Double G.F.I. / Decora	each	24.45
	GMP 14C – Single G.F.I. / Switch	each	23.76
	GMP 15C – Single G.F.I. / Double Switch	each	31.61
	GMP 16C – Triple G.F.I. / Decora	each	33.45
	GMP 17C – Quad G.F.I. / Decora	each	53.67
	GMP 18C – Single G.F.I. / Outlet	each	24.45

CLEAR MIRROR COVER PLATES

IMAGE	PART	SIZE/ QTY	PRICE
	GMP 104C – Dimmer Switch	each	19.28
	GMP 305C – Double G.F.I. / Switch	each	34.81

SILICONE PRODUCTS

IMAGE	PART	SIZE/ QTY	PRICE EA
	SIKASIL-N PLUS US – Neutral Cure Silicone 432053 – Clear	tube	7.82
		case (24)	167.68
	Dow Corning 786 Silicone Translucent White	tube	13.39
		case (12)	143.52

SUNDRIES

IMAGE	PART	SIZE/ QTY	PRICE
	Gunther Ultra/Bond Mirror Mastic 300ml tube	each	8.00
	Mirror Tape – 1/32" x 1/2" x 216'	roll	13.01
	Mirror Tape – 1/16" x 1/2" x 108'	roll	7.61
	Mirror Tape – 1/8" x 1/2" x 75'	roll	10.60
	Bruce's Glass Stain Remover 10 oz. container	each	7.33
		case (6)	39.30
	Invisible Shield 16 oz. bottle	each	10.81
		case (12)	115.84

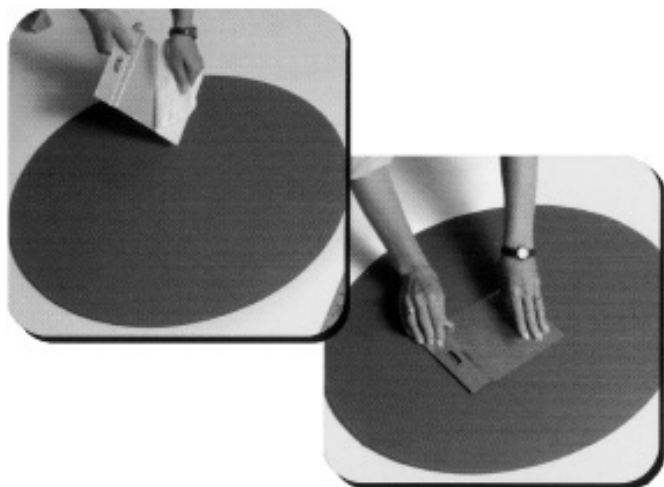
SUNDRIES

IMAGE	PART	SIZE/ QTY	PRICE
	Butyl Glazing Tape 1/16" x 1/2" x 45'	roll	3.12
		case (28)	83.57
	Butyl Glazing Tape 1/8" x 1/2" x 30'	roll	5.87
		case (24)	125.92
	Hang-It™	each	10.28
	Purex Glass Cleaner 5 gallon box	each	100.30

STYLMARK

PROFILE	PART	SIZE/ QTY	PRICE
	Single Channel – 9/16" – 110022 <i>Silver</i> <i>Brushed Nickel</i>	12'	25.38
	Single Channel – 13/16" – 110023 <i>Silver</i> <i>Brushed Nickel</i>	12'	28.31
	Double Channel – 9/16" – 110007 <i>Satin Silver</i> <i>Satin Bronze</i> <i>Satin Gold</i>	12'	40.82
	Double Track – 110019 <i>Satin Silver</i> <i>Satin Bronze</i> <i>Satin Gold</i>	12'	26.79
	Shoe – 110012 <i>Satin Silver</i> <i>Satin Bronze</i> <i>Satin Gold</i>	12'	39.43
	Deep Shoe – 110067 <i>Satin Silver</i> <i>Satin Bronze</i> <i>Satin Gold</i>	12'	37.03
	Wheel Assembly – 510001	each	1.27
	Heavy Duty Wheel Assembly – 510041	each	1.51
	Top Guide – 419007	each	0.20
	Glazing Vinyl – 1/4" – 119004 <i>Black</i>	per foot	0.342
		250' roll	76.27
	Door Pull Assembly – Standard – 510016 <i>Satin Silver</i> <i>Black</i>	each	8.55
	Lock Assembly – Chrome – 511040 <i>Brite Silver</i>	each	49.93
	Wardrobe Door – 630017 Standard & Custom Sizes	each	Quote
	Tri-View Mirror Frame – 620033 Standard & Custom Sizes	each	Quote

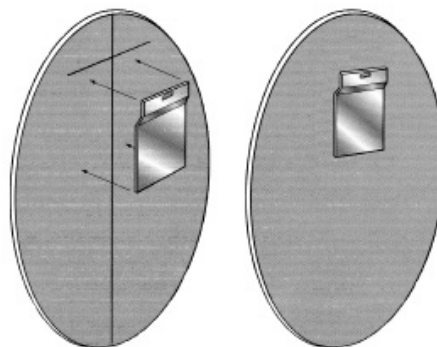
HANG-IT™



Hang-It™ has been designed to be used with all types of mirrors. It's high strength adhesive backing adheres to all mirror paint backings that meet industry standards. Hang-It™ saves time and labor when installing decorator mirrors. Simply peel off the protective paper on the back of the metal hanger, align the saw tooth slot of the metal hanger with centering lines you have established on the mirror, and press in place. Hang your new mirror on the wall making sure the saw tooth slot is positioned where you want the mirror to be hung.

INSTALLATION INSTRUCTIONS

1. Clean any contaminants from the back of the mirror, using a mixture of alcohol and water or denatured alcohol.
2. Locate the center of the mirror and draw a vertical line from the top to the bottom.
3. Measure down 3" to 6" from the top of the mirror and make a mark on the centering line. This marks the location from the top of the hanger.
4. Locate the center of the hanger. Mark with a line. (The saw tooth slot is centered at the top of the hanger.)
5. Peel the adhesive protective paper from the back of the hanger. Align the centering marks on the mirror and hanger. Press in place, making sure the Hang-It™ bracket is making full contact with the back of the mirror.



PRECAUTIONS

1. Make sure mirror and Hang-It™ are applied at or above 60° room temperature when assembled.
2. After installing Hang-It™ on the mirror, wait at least 2 hours before hanging the mirror. The adhesive gains strength in time and fully cures in 7 days.
3. Hang-It™ will support decorator mirrors weighting up to 40 lbs.
4. Always use gloves when handling mirrors, to protect yourself and avoid damaging the mirror.

ROBAX® GLASS

ROBAX® glass-ceramic has a thermal endurance far exceeding that of normal tempered glass. Tempered glass is generally limited to applications that do not exceed 500° F. However, ROBAX® is designed to operate at temperatures ranging from minus 400° F to plus 1400° F. Because of its special composition and processing, this unique material can withstand a quench into ice water from red hot temperatures.

With ROBAX® glass-ceramic windows in your stove or fireplace, you can enjoy the fire view with the assurance that the window has been designed with a superior margin of safety for your home and your family.

- This material is actually a transparent glass-ceramic manufactured by Schott Glaswerkes.
- Unlike tempered glass, 1400° glass-ceramic is unstressed.
- Easily cut and sanded – even drilled.
- Will not shatter (like tempered glass).
- Fire to ice without breaking.
- Good strength.

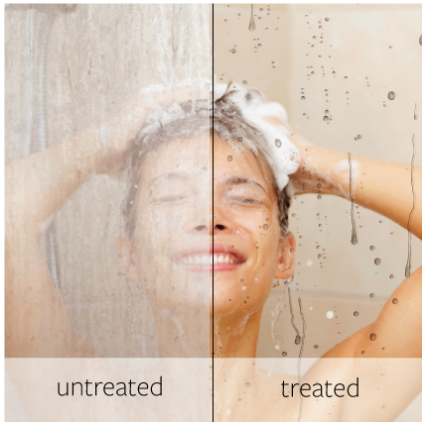
This is an excellent replacement in most applications for any of the following glasses: PYREX®, BOROFLOAT®, TEMPAX®, VYCOR®, PYROCERAM®, AND NEOCERAM®.

Typical applications include: wood stove, pellet stove and coal stove windows; wood and gas fireplace doors; oven door windows; high intensity light covers; furnace observation windows; barbecue grill windows; spark and flame guard panels.



In the photo above, a cutting torch was placed below the ROBAX® and heated until it was red-hot. Cold water was then poured onto the glass from above. There was NO Breakage.

ENDUROSHIELD



Save time and money with EnduroShield®, the revolutionary, non-stick treatment that is ideal for shower glass. EnduroShield glass treatment makes cleaning shower glass easy and repels soap scum, grime and dirt. EnduroShield reduces your cleaning time by up to 90%.

Untreated glass is porous and as a result absorbs mineral deposits and soap scum, making it more and more difficult to clean overtime. Shower glass is subject to mineral deposits from water, shampoo, soaps, body fats, and harsh scrubbing using toxic cleaners, causing the glass to discolor and develop irremovable staining. EnduroShield is an ultra-thin transparent glass coating that completely adheres to the surface and provides protection that will repel both water and oil based stains. Similar to a non-stick fry pan, cleaning is made easier using a mild detergent or white vinegar with a damp microfiber cloth. No longer is scrubbing with harsh toxic cleaners needed.

WARRANTY

Extensive testing has proven EnduroShield to last beyond 10 years, enabling a genuine 10-year limited warranty* on all new glass surfaces.

CARE & MAINTENANCE

For best results simply drying the glass with a squeegee or towel after each use will help keep the glass clean and reduce mineral spots forming. The glass needs to be cleaned every few weeks using a damp microfiber cloth and a mild detergent to break down soaps, oils, and conditioners on the glass.

The below products have been tested for compatibility with EnduroShield.

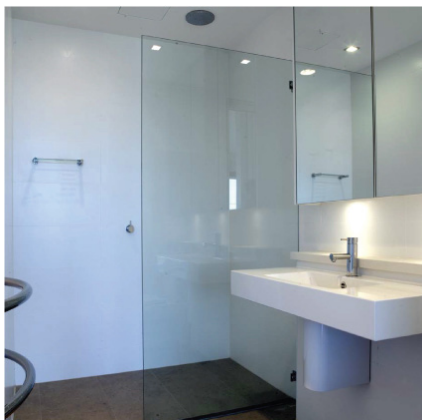
- Lysol 4 in 1 Bathroom Cleaner
- Fantastik Orange Action
- Green Works Natural Glass & Surface Cleaner (by Clorox)
- Mr. Clean Magic Eraser (when damp)

A thorough rinse with clean water should follow immediately after use of any cleaner.

CAUTION: Prohibited Products

Be careful not to use any rough, gritty, abrasive, highly acidic or alkaline cleaners as they may damage the protective coating. This includes products such as Comet (powder), Ajax, or cerium oxide which damage or polish back the actual substrate.

For warranty registration, additional information, and full care instructions visit www.enduroshield.com.



QUALITY & INSPECTION

Managing Expectations for Glass Quality

Explaining industry standards to an owner after they've already seen the glass, and found it lacking, can be challenging. It's important to remember that glass isn't perfect, and this fact often causes frustration, especially when industry standards don't match client expectations. This is particularly true in the luxury custom home market, where expectations are high, and glass isn't perfect. In fact, the larger the glass piece, the more imperfections it may have.

Setting Expectations

Managing expectations is crucial in any relationship, including between suppliers, dealers, and clients. We hope this information helps set realistic expectations regarding glass defects and imperfections as we provide product to you and, in turn, provide it to your customers.

Industry Standards

Visible imperfections in glass are governed by standards set by the ASTM (American Society for Testing & Materials). These mutually agreed upon standards cover a wide range of glass issues, making it complex to determine what constitutes a visible defect.

Identifying Defects

To determine if a defect is present, follow these simple steps for a quick answer:

1. Move away from the glass.
2. Stand 10 feet back.
3. Face the glass straight-on at a 90-degree angle.
4. View the glass in daylight, but not direct sunlight.
5. Inspect the glass.

If you can't see the defect from 10 feet away under these conditions, it isn't considered a defect.

That's the short answer. The official ASTM version of the answer is much longer and more complex depending on the applicable standard(s) and the defect(s) being identified.

ASTM Standards (www.astm.org)

The official ASTM standards provide detailed criteria for identifying defects, depending on the type of glass:

- Flat glass & glazing – ASTM C 1036
- Heat-treated (tempered glass) – ASTM C 1048
- Silvered Flat Glass Mirror – ASTM C 1503
- Coated glass (used in I.G. Units) – ASTM C 1376

Each standard specifies inspection criteria such as distance, lighting, viewing angle, and specimen size. A piece of glass may need to meet multiple ASTM standards depending on its fabrication process.

WSD Quality Standards

At Wisconsin Shower Door, we strive to provide high-quality fabricated goods, adhering to the Q2 tolerances outlined in ASTM C 1036. Our processes include:

- Minimizing glass handling
- Multiple inspection stations during fabrication
- Using glass separation and corner protection during shipping

We provide abridged versions of the ASTM standards for your reference.

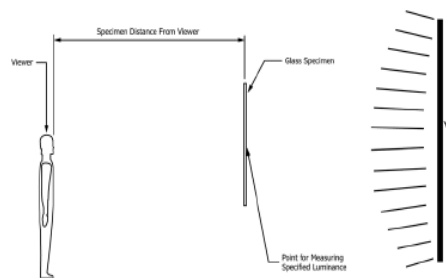
Anyone can find imperfections if they look closely enough. Remember, glass is meant to be looked through, not at.

FLAT GLASS INSPECTION

Criteria per ASTM C 1036 (abridged)

Inspection Criteria

- Visual inspection should be done with 20/20 vision (naked eye or corrected)
- The inspector shall place the glass in a vertical position
- View at the distance specified by defect type below
- Inspector shall be positioned perpendicular to the glass surface
- Lighting should be daylight level (without direct sunlight) or other uniform diffused background light that simulates daylight



Point Blemishes

Terminology

Point blemish – crush, knots, dirt, stones, gaseous inclusions, and other similar imperfections

- crush – lightly pitted condition with a dull gray appearance
- dirt – small particle of foreign matter embedded in the glass surface
- gaseous inclusion (aka seed or bubble) – round or elongated bubble in the glass

Allowable Point Blemish (viewing distance 39") – From a distance of 39" the viewer shall inspect the glass. If a blemish is detected, proceed to measure the blemish and distance between blemishes. If not seen at 39", the blemish is allowed without restriction.

To determine point blemish size, measure height and width of blemish and average. Only the point blemish is to be measured, and not any distortion that may be present.

- Blemish size < 0.5mm (0.02") – allowed without restriction
- Blemish size ≥ 0.5 mm (0.02") to <0.8mm (0.03") – allowed with a minimum separation of 600 mm (24")
- Blemish size ≥ 0.8 mm (0.03") to <1.2mm (0.05") – allowed with a minimum separation of 1200 mm (48")
- Blemish size ≥ 1.2 mm (0.05") to <1.5mm (0.06") – allowed with a minimum separation of 1500 mm (60")
- Blemish size ≥ 1.5 mm (0.06") – none allowed

The values above are for 6.0 mm (1/4") and less. Glass thicker than 6.0 mm (1/4") may contain proportionally larger blemishes for the same minimum separation distances.

Linear Blemishes

Terminology

Linear blemish – digs, rubs scratches, and other similar imperfections

- dig – deep, short scratch
- rub – abrasion of a glass surface producing a frosted appearance
- scratch – damage on a glass surface in the form of a line caused by the movement of an object across and in contact with the glass surface

Blemish Intensity – To determine linear blemish intensity, start at 132" and move closer until blemish becomes visible (refer to table below).

Detection Distance	Blemish Intensity
Over 3.3 m (132")	Heavy
3.3 to 1.01 m (132" to 40")	Medium
1 to 0.2 m (39" to 8")	Light
Less than 0.2 m (8")	Faint

Allowable Linear Blemish

- Faint ≤ 75 mm (3") – allowed with a minimum separation of 1200 mm (48")
- Faint > 75 mm (3") – none allowed
- Light ≤ 75 mm (3") – allowed with a minimum separation of 1200 mm (48")
- Light > 75 mm (3"), medium or heavy linear blemishes – none allowed

All listed criteria are based on ASTM C 1036 – 16, Q2.

TEMPERED GLASS INSPECTION

Criteria per ASTM C 1048 (abridged)

Inspection Criteria

- Place sample glass in freestanding vertical position, resting on blocks
- Place a straightedge across the concave surface, parallel to and within 25.4 mm (1") of one edge, and spanning from one edge to the opposite edge
- Measure the maximum deviation with a fine scale ruler
- Refer to the table below to determine maximum allowable bow

TABLE 2 Overall Bow, Maximum

	Edge Dimension, cm (in.)										
	0–50 (0–20)	>50–90 (>20–35)	>90–120 (>35–47)	>120–150 (>47–59)	>150–180 (>59–71)	>180–210 (>71–83)	>210–240 (>83–94)	>240–270 (>94–106)	>270–300 (>106–118)	>300–330 (>118–130)	>330–370 (>130–146)
Nominal Thickness Designation mm (in.)	Maximum Bow, mm (in.)										
3 (1/8) Alternate Method ^A	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	7.0 (0.28)	9.0 (0.35)	12.0 (0.47)	14.0 (0.55)	17.0 (0.67)	19.0 (0.75)	...	...
	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)	5.0 (0.20)	6.0 (0.24)	7.0 (0.28)	8.0 (0.31)	10.0 (0.39)	...	...
4 (5/32)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	7.0 (0.28)	9.0 (0.35)	12.0 (0.47)	14.0 (0.55)	17.0 (0.67)	19.0 (0.75)	...	...
5 (3/16)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	7.0 (0.28)	9.0 (0.35)	12.0 (0.47)	14.0 (0.55)	17.0 (0.67)	19.0 (0.75)	...	...
6 (1/4)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	7.0 (0.28)	9.0 (0.35)	12.0 (0.47)	14.0 (0.55)	17.0 (0.67)	19.0 (0.75)	21.0 (0.83)
8 (5/16)	2.0 (0.08)	2.0(0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	8.0 (0.31)	10.0 (0.39)	13.0 (0.51)	15.0 (0.59)	18.0 (0.71)
10 (3/8)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	7.0 (0.28)	9.0 (0.35)	12.0 (0.47)	14.0 (0.55)	17.0 (0.67)
12–22 (1/12 –7/8)	1.0 (0.04)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	4.0 (0.16)	5.0 (0.20)	5.0 (0.20)	7.0 (0.28)	10.0 (0.39)	12.0 (0.47)	14.0 (0.55)

Terminology

DISTORTION – Heat treating adds distortion to glass products. All requirements for distortion, roller wave, consistent furnace orientation or distortion measurement must be disclosed at quotation and order.

STRAIN PATTERN – Tempered glass contains a strain pattern or "Quench Marks" that appear as areas of shadows in a pattern corresponding to the location of air nozzles in the tempering furnace quench section. This condition becomes more visible:

- Under certain lighting conditions, like polarized sunlight
- When the glass is viewed at glancing angles
- With tinted glass, especially when multiple lites are combined in laminated and insulating constructions

The strain pattern is not considered a defect in tempered glass products.

SURFACE PARTICLES – Minute particles (fines), typically invisible to the naked eye, may adhere to one or both glass surfaces. These surface particles may occur from a variety of sources including, but not limited to, the glass cutting and edging process, typical manufacturing plant airborne debris or dust, refractory particles from the furnace roof, and external airborne dirt and grit carried into the plant by the large volume of quench air used in the process. Surface particles invisible to the naked eye are inherent in the heat-treating process and are not a cause for rejection.

Additional Criteria

Linear and point blemishes in glass should be evaluated per WSD's Flat Glass Inspection Criteria per ASTM C 1036-16.

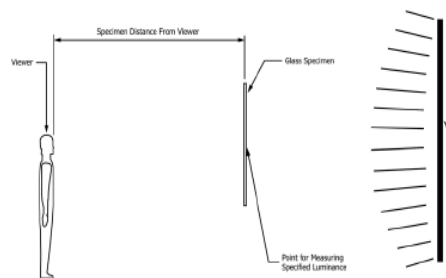
Localized bow for rectangular glass shall not exceed 1.6 mm (1/16") over any 300 mm (12") span.

MIRROR INSPECTION

Criteria per ASTM C 1503 (abridged)

Inspection Criteria

- Visual inspection should be done with 20/20 vision (naked eye or corrected)
- The inspector shall place the mirror in a vertical position
- Inspection of the reflective surface only at an angle of $90^\circ \pm 10^\circ$ perpendicular to the surface
- Lighting should be daylight level (without direct sunlight) or other uniform diffused background light that simulates daylight
- Additional lighting, such as flashlights or spotlights, is not permitted from either side.



Point Blemishes & Silver Film Blemishes

Terminology

Point blemish – crush, knots, dirt, stones, gaseous inclusions, and other similar imperfections

- crush – lightly pitted condition with a dull gray appearance
- dirt – small particle of foreign matter embedded in the glass surface
- gaseous inclusion (aka seed or bubble) – round or elongated bubble in the glass
- silver film blemishes – visible clouding, spot silver faults (pinholes), and other similar imperfections of the silver coating

Allowable Point Blemish (viewing distance 39") – From a distance of 39" the viewer shall inspect the mirror. If a blemish is detected, proceed to measure the blemish and distance between blemishes. If not seen at 39", the blemish is allowed without restriction.

To determine point blemish size, measure height and width of blemish and average. Only the point blemish is to be measured, and not any distortion that may be present.

- Blemish size $< 0.3\text{mm}$ (0.012") – allowed without restriction
- Blemish size $\geq 0.3\text{ mm}$ (0.012") to $< 0.8\text{mm}$ (0.032") – allowed with a minimum separation of 600 mm (24")
- Blemish size $\geq 0.8\text{ mm}$ (0.032") – none allowed

Linear Blemishes

Terminology

Linear blemish – digs, rubs scratches, and other similar blemishes

- dig – deep, short scratch
- rub – abrasion of a glass surface producing a frosted appearance
- scratch – damage on a glass surface in the form of a line caused by the movement of an object across and in contact with the glass surface

Blemish Intensity – To determine linear blemish intensity, start at 72" and move closer until blemish becomes visible (refer to table below).

Detection Distance	Blemish Intensity
Over 1.5 m (60")	Heavy
1.5 to 0.6 m (60" to 24")	Medium
0.6 to 0.2 m (24" to 8")	Light
Less than 0.2 m (8")	Faint

Allowable Linear Blemish

- Faint $\leq 75\text{ mm}$ (3") – allowed with a minimum separation of 600 mm (24")
- Faint $> 75\text{ mm}$ (3") – none allowed
- Light $\leq 75\text{ mm}$ (3") – allowed with a minimum separation of 600 mm (24")
- Light $> 75\text{ mm}$ (3"), medium or heavy linear blemishes – none allowed

All listed criteria are based on ASTM C 1503-24

COATED GLASS INSPECTION

Criteria per ASTM C 1376 (abridged)

Inspection Criteria

- These specifications apply to cut size glass only.
- Visual inspection should be done with 20/20 vision (naked eye or corrected)
- The inspector shall place the glass in a vertical position
- Inspector shall be positioned perpendicular to the glass surface at a distance of 10 ft.
- Lighting should be daylight level (without direct sunlight) or other uniform diffused background light that simulates daylight
- If a blemish is readily apparent under these viewing conditions, the criteria below applies

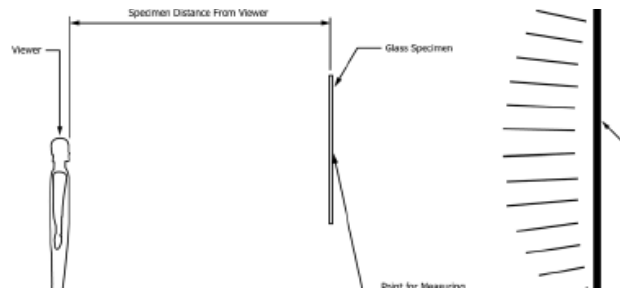


TABLE 1 Quality Specifications for Cut Size Coated Vision Glass (Kind CV)^A

Blemish ^{B,C}	Central Area, in. (mm) ^D	Outer Area, in. (mm) ^D
Pinhole	1/16 (1.6) max	3/32 (2.4) max
Spot	1/16 (1.6) max	3/32 (2.4) max
Coating scratch	2 (50) max length	3 (75) max length
Mark/contaminant	2 (50) max length	3 (75) max length
Coating rub	none allowed	length plus width not to exceed 3/4 (19)
Crazing	none allowed	none allowed
Corrosion	none allowed	none allowed

The central area is considered to form a square or rectangle defined by the center 80% of the length and 80% of the width dimensions centered on a lite of glass. The remaining area is considered the outer area.

Terminology

COATING RUB – a surface abrasion of appreciable width that has partial, or complete, removal of the coating producing a hazy appearance.

COATING SCRATCH – partial, or complete, removal of the coating along a thin straight or curved line.

COATED VISION GLASS – glass used in an installation in which the lower edge of the glass is a maximum of 6 ft above floor level and the glass can be approached within 10 ft or less.

CORROSION – change in the color or level of reflected or transmitted light over all or part of the glass surface as a result of degradation of the coating from external sources.

CRAZING – a random conglomeration of fine lines or cracks in the coating.

MARK/CONTAMINANT – a deposit of foreign material on the glass surface.

PINHOLE – small area in which the coating is entirely or partially absent.

SPOT – a small, opaque blemish in the coating.

Additional Criteria

Linear and point blemishes in glass should be evaluated per WSD's Flat Glass Inspection Criteria per ASTM C 1036-16.

Tempering blemishes in glass should be evaluated per WSD's Heat-Treated Inspection Criteria per ASTM C 1048-18.

All listed criteria are based on ASTM C 1376-15

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