SECTION 08 83 00

MIRRORS (FRAMED)

1. GENERAL
	1. SECTION INCLUDES
		1. Framed Glass Mirrors
	2. RELATED SECTIONS
		1. Section 10 28 00 - Toilet, Bath and Laundry Accessories
	3. REFERENCES
		1. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test; 2010.
		2. ASTM C1036-01 - Standard Specification for Flat Glass 2016.
		3. ASTM C1503-0 1 Standard Specification for Silvered Flat Glass Mirror
		4. GANA (GM) - GANA Glazing Manual 2008.
		5. GANA (SM) - GANA Sealant Manual 2008.
		6. GANA (TIPS) - Mirrors: Handle with Extreme Care (Tips for the Professional on the Care and Handling of Mirrors) 2011.
	4. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Manufacturer's data sheets on each product to be used, including:
			1. Structural and physical
			2. Assembly and glazing method.
			3. Installation and hanging methods.
			4. Manufacturer’s Certificate: Certify mirrors meet or exceed specified requirements.
	5. QUALITY ASSURANCE
		1. Perform work in accordance with GANA Glazing Manual for glazing installation methods.
		2. Fabricate, store, transport, receive, install, and clean mirrors in accordance with recommendations of GANA (TIPS) "Mirrors Handle with Extreme Care: Tips For the Professional on the Care and Handling of Mirrors."
	6. WARRANTY
		1. General Warranty: Warranty for one year free from manufacturer’s defects and deterioration for a period of one year.
		2. Deterioration: Includes, but is not limited to discoloration, black spots and clouding.
		3. Exclusions: Includes defects that are attributed to mirror breakage or to maintaining and cleaning mirror contrary to manufacturer’s written instructions
2. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Glass & Mirror Minnesota, which is located at: 427 Tenth Ave N, Minneapolis, MN 55401; Tel: 952-933-3223 ; Email: sales@glassandmirrorminnesota.com; Web: <https://www.glassandmirrorminnesota.com/>
		2. Substitutions not permitted.
		3. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	2. SILVERED FLAT GLASS MIRROR MATERIALS
		1. Glass Mirror:
			1. Flat Glass Substrate: meets or exceeds ASTM C1036-01.
			2. Silvering: uniform layer sealed with copper, electrolytically plated and sealed with a protective paint backing which meets or exceeds ASTM C1503-01.
			3. Thickness: 1/8” & 3/16” determined by manufacturer guidelines.
				1. 1/8”- mirrors under 12 square feet.
				2. 3/16”- mirrors greater than or equal to 13 square feet.
				3. 3/16” with Category II safety backing- for mirrors with any dimension greater than 82”.
	3. FRAMED MIRRORS MATERIALS
		1. Glass & Mirror Minnesota Framed Mirrors
			1. Frame Dimensions: 1 ¼”w x ¾”h.
			2. Frame Dimensions: 2”w x ¾”h.
			3. Frame Dimensions: 2 3/8”w x ¾”h.
			4. Frame Dimensions: 3”w x ¾”h.
			5. Frame Contour: Flat.
			6. Frame Contour: Scooped.
			7. Frame Contour: Inward Bevel.
			8. Frame Contour: Step down.
			9. Frame Contour: Waved
			10. Frame Construction: Medium Density Fiberboard substrate with laminated wrap.
			11. Finish:
				1. BLK- Black.
				2. W-White.
				3. ET- Espresso Textured.
				4. ORB- Oil-Rubbed Bronze.
				5. CH- Charcoal.
				6. CM- Chrome.
				7. BCM- Brushed Chrome.
				8. AB- Antique Brass.
				9. N- Nickel.
				10. BN- Brushed Nickel.
				11. SN- Satin Nickel.
				12. G- Gold.
				13. S- Silver.
				14. BS- Brushed Silver.
				15. WD- Wood.
				16. B- Bronze
				17. CP- Chocolate Pear.
				18. WV- White Veined.
				19. Custom Options available to match cabinetry.
	4. Framed Mirror Assembly
		1. Corner Joints
			1. Non drip, fast drying wood glue with a minimum tensile strength of 3000psi applied between mitered corners.
			2. Stainless steel v-nails inserted to join moulding pieces.
			3. Corners reinforced with 2 ¾” x 2 ¾” .06 Black ABS Hair cell finish 1 side corner squares attached with heavy duty staples.
		2. Frame Reinforcement
			1. Framed mirror over 54” wide to be reinforced vertically with ¾” 20ga galvanized steel strapping attached to back of frame with wood screws.
		3. Glazing Method
			1. Mirror secured to frame with metal framepoint anchors flush to back.
			2. Mirror movement restricted and bonded to frame with hot melt glue with a minimum softening point of 300 degrees Fahrenheit.
	5. Framed Mirror Hanging Method
		1. Framed mirror to be hung on wall with hang rail cleat system (holes 4” on center) and secured to wall with theft-resistant security brackets and T-bolts.
3. EXECUTION
	1. EXAMINATION
		1. Verify wall surface is clear of obstructions before starting work.
	2. PREPARATION
		1. Clean installation location.
	3. INSTALLATION
		1. Install mirrors to comply with manufacturer’s written instructions and in accordance with GANA recommendations.
		2. Set mirrors plumb and level.
		3. Anchor rigidly to wall construction.
	4. FIELD QUALITY CONTROL
		1. Remove any visible labels after work is complete.
		2. Clean mirrors and adjacent surfaces as recommended in writing by manufacturer.
	5. PROTECTION
		1. Protect installed products until completion of project.

END OF SECTION