SECTION 10 11 16

GLASS MARKERBOARDS

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\*\* NOTE TO SPECIFIER \*\* AGC Glass North America; glass markerboards.
This section is based on the products of AGC Glass North America, which is located at:
11175 Cicero Dr. Suite 400
Alpharetta, GA 30022
Toll Free Tel: 800-251-0441
Fax: 404-446-4220
Email: [request info (info@us.agc.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=AGC+Glass+North+America&coid=30197&rep=&fax=404-446-4220&message=RE:%20Spec%20Question%20(10115agc):%20%20&mf=)
Web: <https://www.agc.com/en/index.html>
 [ [Click Here](https://www.arcat.com/arcatcos/cos30/arc30197.html) ] for additional information.
AGC Glass is the world's largest manufacturer of glass and glass-related products. The company offers the widest range of flat glass for architectural, interior, and residential applications. AGC Glass North America is part of the AGC Group, which employs more than 50,000 worldwide in approximately 30 countries. As a global company, AGC leverages its many resources to develop innovative new products and to offer world-class service that is second to none. AGC glass products are available through an extensive network of glass fabricators and window manufacturers in the U.S. and Canada

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Glass Markerboards:
			1. Back-painted glass. (Lacobel)
			2. Temperable, back-painted glass. (Lacobel T)
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 08 83 13 - Mirrored Glass Glazing.
		2. Section 08 81 13 - Decorative Glass Glazing.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM C 1036 - Standard Specification for Flat Glass.
			2. ASTM C 1048 - Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass.
		2. Consumer Product Safety Commission (CPSC): 16 CFR-1201 - Safety Standard for Architectural Glazing Materials.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
		2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Fabricators: Approved by glass manufacturer.
		3. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		4. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	4. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: AGC Glass North America, which is located at: 11175 Cicero Dr. Suite 400; Alpharetta, GA 30022; Toll Free Tel: 800-251-0441; Fax: 404-446-4220; Email: [request info (info@us.agc.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=AGC+Glass+North+America&coid=30197&rep=&fax=404-446-4220&message=RE:%20Spec%20Question%20(10115agc):%20%20&mf=); Web: <https://www.agc.com/en/index.html>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. GLASS MARKERBOARDS

\*\* NOTE TO SPECIFIER \*\* Lacobel® is AGC's range of high-quality back-painted glass in an attractive pallet of classic and contemporary colors that deliver a fresh boost for the buildings and furnishings they grace. Lacobel is designed for interior. Delete if not required.

* + 1. Basis of Design: Lacobel by AGC Glass North America.
			1. Glass Type: Clear glass, factory pre-painted on one side by high-quality enamel paint.
			2. Glass Type: Annealed, ASTM C 1036.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Backing: Provide safety back as required to comply with CPSC 16 CFR-1201.
			2. Glass Thickness: 1/4 inch (6.0 mm) or 1/8 inch (4.0 mm).

\*\* NOTE TO SPECIFIER \*\* Delete size option not required.

* + - 1. Size: As indicated on Drawings.
			2. Size: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete edge treatment options not required.

* + - 1. Edge Treatment: Polished.
			2. Edge Treatment: As indicated on the Drawings.
			3. Edge Treatment: \_\_\_\_\_.
			4. Manufacturing Process: By curtain head production line to assure uniform paint coverage using an adhesion promoter to ensure paint adhesion to the glass.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Aluminum Rich 9007.
			2. Color: Anthracite Authentic 7016.
			3. Color: Beige Light 1015.
			4. Color: Black Classic 9005.
			5. Color: Black Starlight 0337.
			6. Color: Blue Shadow 7000.
			7. Color: Brown Light 1236.
			8. Color: Brown Natural 7013.
			9. Color: Brown Starlight 9015.
			10. Color: Copper Metal 9115.
			11. Color: Green Sage 8715.
			12. Color: Green Soft 8615.
			13. Color: Grey Classic 7035.
			14. Color: Grey Metal 9006.
			15. Color: Red Luminous 1586.
			16. Color: Red Terracotta 8815.
			17. Color: Taupe Metal 0627.
			18. Color: White Pearl 1013.
			19. Color: White Pure 9003.
			20. Color: White Soft 9010.

\*\* NOTE TO SPECIFIER \*\* Factory Pre-painted Temperable Back-Painted Glass for a glossy finish. Lacobel® T is AGC's range of temperable back-painted glass in an attractive pallet of classic and contemporary colors that deliver a fresh boost for the buildings and furnishings they grace. Lacobel T is designed for exterior and interior Lacobel T is available in a range of 10 colors. Delete if not required.

* + 1. Basis of Design: Lacobel T; Factory Pre-Painted Temperable by AGC Glass North America.
			1. Glass Type: Clear and low iron float glass covered on one side by high-quality temperable enamel paint finish. Annealed, ASTM C 1036.

\*\* NOTE TO SPECIFIER \*\* Lacobel T is factory pre-painted back-painted glass that can be immediately cut and tempered by fabricators at their plant, simplifying the production process and accelerating the delivery times. Delete if not required.

* + - 1. Treatment: Tempered enameled coating. Heat strengthened, ASTM C 1048 or fully tempered, ASTM C 1048 as indicated or scheduled.
			2. Glass Thickness: 1/4 inch (6.0 mm) or 1/8 inch (4.0 mm).

\*\* NOTE TO SPECIFIER \*\* Delete size option not required.

* + - 1. Size: As indicated on Drawings.
			2. Size: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete edge treatment options not required.

* + - 1. Edge Treatment: Polished.
			2. Edge Treatment: As indicated on the Drawings.
			3. Edge Treatment: \_\_\_\_\_.
			4. Manufacturing Process: By curtain head production line to assure uniform paint coverage using an adhesion promoter to ensure paint adhesion to the glass.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Anthracite Grey 0913.
			2. Color: Cool White 1502.
			3. Color: Crisp White 1000.
			4. Color: Deep Black 8502.
			5. Color: Light Blue 1413.
			6. Color: Misty White 5813.
			7. Color: Moka 3113.
			8. Color: Oyster White 0613.
			9. Color: Petrol Green 1313.
			10. Color: Zen Grey 6005.
	1. MOUNTING HARDWARE

\*\* NOTE TO SPECIFIER \*\* Delete mounting hardware paragraph options not required.

* + 1. Z-Bar Hanger Clips: No visible mounting hardware. Structural mounting hardware concealed behind the glass:
			1. Length: Full length of glass minus 3 inches (76 mm).
			2. Minimum Load Capacity: 500 pounds (227 kg).

\*\* NOTE TO SPECIFIER \*\* Delete manufacturer options not required.

* + - 1. Manufacturer: \_\_\_\_\_.
			2. Manufacturer: As indicated on the Drawings.
			3. Manufacturer: As approved by the Architect.
		1. Stand-Off Mounting Hardware, Through the Glass: Brushed stainless steel grips:
			1. Quantity:

\*\* NOTE TO SPECIFIER \*\* Delete quantity options not required.

* + - * 1. For up to 4 by 6 feet (1219 x 1829 mm): 4 stand-offs, minimum.
				2. For up to 5 by 8 feet (1524 x 2438 mm): 6 stand-offs, minimum.
				3. For up to 4 by 12 feet (1219 x 3658 mm) or 5 by 10 feet (1524 x 3048 mm): 8 stand-offs, minimum.

\*\* NOTE TO SPECIFIER \*\* Delete manufacturer options not required.

* + - 1. Manufacturer: \_\_\_\_\_.
			2. Manufacturer: As indicated on the Drawings.
			3. Manufacturer: As approved by the Architect.
		1. Stand-Off Mounting Hardware, Edge Clips: Brushed stainless steel edge grips:
			1. Quantity:

\*\* NOTE TO SPECIFIER \*\* Delete quantity options not required.

* + - * 1. For up to 4 by 6 feet (1219 x 1829 mm): 4 stand-offs, minimum.
				2. For up to 5 by 8 feet (1524 x 2438 mm): 6 stand-offs, minimum.
				3. For up to 4 by 12 feet (1219 x 3658 mm) or 5 by 10 feet (1524 x 3048 mm): 8 stand-offs, minimum.

\*\* NOTE TO SPECIFIER \*\* Delete manufacturer options not required.

* + - 1. Manufacturer: \_\_\_\_\_.
			2. Manufacturer: As indicated on the Drawings.
			3. Manufacturer: As approved by the Architect.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + 1. Adhesives for Back-Painted Glass: Compatible with one another and with adjacent materials, including glass products and glazing materials, under conditions of service and application as demonstrated by sealant manufacturer based on testing and field experience.
			1. Silicone: Available products.

\*\* NOTE TO SPECIFIER \*\* Delete adhesive options not required.

* + - * 1. Dow Chemical Dowsil 795.
				2. Dow Chemical Dowsil 995.
				3. Interior Applications Only: Dow Chemical Dowsil 791.
				4. Interior Applications Only: Liquid Nails Fuze It LN2000.

\*\* NOTE TO SPECIFIER \*\* Subparagraph below is for Lacobel or Matelac installations. Delete if not required.

* + - * 1. Not compatible with Green Sage or Red Terracotta colors.

\*\* NOTE TO SPECIFIER \*\* Subparagraph below is for Lacobel or Matelac installations. Delete if not required.

* + - * 1. For Grey Metal, Copper Metal, Aluminum Rich, Black Starlight, Brown Starlight, or Taupe Metal colors use safety backing.
			1. Adhesive tape.
	1. ACCESSORIES

\*\* NOTE TO SPECIFIER \*\* Delete accessories paragraph options not required.

* + 1. Magnetic Backing: 24 gauge steel backer with high bond adhesive used to securely attach steel to glass.
		2. Mounted Tray: \_\_\_\_\_\_\_\_.
		3. Mounted Tray: As indicated on the Drawings.
		4. Mounted Tray: As determined by the Architect.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
			1. Install plumb, level, and square.
			2. Do not install on damp walls or in damp and humid conditions.
			3. Mount securely in place using mounting hardware specified.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
			1. Coated glass, when viewed from minimum of 10 feet (3 m), exhibiting slightly different hue or color not apparent in hand samples, will not be cause of rejection of glass units, as determined by Architect.
			2. Verify glass is free of chips, cracks, and other inclusions that could inhibit structural or aesthetic integrity.
	5. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Protect installed glass from damage during construction.
		3. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION