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DIVISION 08 00 00 SECTION

08 81 30 DECORATIVE GLAZING

Please note that this specification is not complete until reviewed by a specification professional. Certain parts may need to be deleted or added for this to be complete. This specification guide only speaks to parts pertaining to interior decorative glass glazing. Important parts pertaining to the overall glass and glazing portion of a specification have been omitted, please ensure your specification is complete. This is a guide only.

Much of this specification contains information or will need to have information added in respect to the glass fabricator and must be checked for accuracy in respect to the manufacture of the glass and not just the opacifier.

PART 1 - GENERAL

1.01 DESCRIPTION/SUMMARY

A. General Information

1. AquaVue™ glass coating for interior decorative glass glazing applications.
2. Other contract documents and requirements of Division 1 & 2 apply to work of this Section.
3. AquaVue™ is an Interior Only application, to be used in non-exterior exposed surfaces (i.e. building facades are not an approved application).

B. Work Included

Include all labor, materials, equipment, transportation and services to complete installation of silicone hybrid coated DECORATIVE GLASS as shown on the drawings and herein specified.

1. Related Sections:

- a. Glazing - Section 08 00 00

- b. Sealants - Section 08 44 00
- c. Glass Countertops - Section 08 88 80
- d. Gypsum Wall Board - Section 09 21 00
- e. Painting - Section 09 00 00

1.02 REFERENCES

A. United States

1. ASTM C162 - Standard Terminology of Glass and Glass Products
2. ASTM C1036 - Standard Specification for Flat Glass
3. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass -- Kind HS, Kind FT, Coated and Uncoated Glass
4. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing Materials

B. Canada

1. CAN/CGSB - 12.1-M Tempered or Laminated Safety Glass
2. CAN/CGSB - 12.2-M Flat Clear Sheet Glass
3. CAN/CGSB - 12.3-M Flat Clear Flat Glass

C. United States & Canada

4. Glass Association of North America (GANA) Glazing Manual

1.03 DEFINITIONS

A. Monolithic glass & coating orientation

1. Surface 1: Exterior surface (surface facing room)
2. Surface 2: Interior surface (surface facing wall)

B. AquaVue™ is a two-component, water-based silicone hybrid coating designed for use as a colored coating on glass for interior and furniture applications. The product is totally lead free and environmentally safe. After the application to the glass the applied coating cures to a tack-free hard film which has excellent adhesion and chemical rating.

C. AquaVue™ decorative glass glazing: Glass that has been rendered opaque with a water-based silicone hybrid coating.

D. Other applications of AquaVue™ coated glass include wall cladding for shower enclosures, surface 2 coated glass for countertops and decorative glass.

1.04 DESIGN REQUIREMENTS

Decorative Glazing Specifications

Items in this part of the specification will depend on building requirements such as: dead load, mechanical fastening requirements, impact loads, failures, sequencing of work, as well as possible tempered glass breakage limits. Please ensure this section is completed by a design professional.

1.05 SUBMITTALS

A. Submit 4" X 6" (100mm X 150mm) or 12" X 12" (300mm X 300mm) samples of each glass type indicated, with each color required for the wall cladding glass. Architect or designer approval must be sought before manufacture.

B. Submit AquaVue™ manufacturer's Product Data Sheet and glazing instructions.

C. Glazing contractor shall obtain compatibility reports from component manufacturers such as opacifier, sealants, and other glazing components, ensuring that the glazing materials were tested for compatibility.

Please note that other submittal requirements may be added, such as reports and assurances on specific design requirements.

1.06 QUALITY ASSURANCE

A. Comply with published recommendations of glass product manufacturers and organizations below, except where more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this section or referenced standards.

1. GANA Publications

Please note that other QA statements may need to be added that would pertain to the glass fabricator, such as marking of tempered products, safety glazing compliance, etc.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Comply with manufacturer's instruction for receiving, handling, storing and protecting glass & glazing materials.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperatures and humidity conditions recommended by the manufacturer. Proper storage methods can help to insure protection from damage caused by prolonged exposure to moisture, construction site dust and debris, caustic chemicals, and exposure to other construction chemicals and activities.

D. Exercise exceptional care to prevent edge damage to glass, and damage/deterioration to coating on glass.

1.08 PROJECT/SITE CONDITIONS

A. Refer to publication: GANA TD 03-1003 Construction Site Protection and Maintenance of Architectural Glass

1.09 WARRANTY

D. That AquaVue™ will not flake, peel, ship, blister, develop any noticeable color change (>2 DE), and not to exceed more than a 20% change in gloss for a period of ten (10) years from the date of manufacture, when used, installed and applied in accordance with the manufacturers' instructions, terms and conditions.

Please note AquaVue™ is manufactured by ICD High Performance Coatings and applied to glass by a glass fabricator. A glass fabricator will decide what warranty to place on the AquaVue™ coated glass.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Manufacturer is used in this section to refer to a firm that produces primary glass or fabricated glass as defined in the referenced standards.

2.02 MATERIALS

A. Monolithic AquaVue™ decorative glass glazing.

1. The AquaVue™ opacifying coating shall have a minimum thickness of 4 mils wet thickness (0.004"/0.10mm); dry thickness of 1.2 to 1.5 mils (0.0012"/0.03mm to 0.0015"/0.04mm).

2. For a list of known fabricators, please contact ICD at 1.360.546.2286 or www.icdcoatings.com.

4. Approved manufacturers of AquaVue™

a. ICD High Performance Coatings, 7350 S. Union Ridge Parkway, Ridgefield, WA 98685, USA.

B. Glass type:

C. Glass tint:

D. Reflective Coating:

E. Nominal thickness:

F. Glass strength (Heat-Strengthened or Tempered):

G. Wall Cladding Coating Orientation: Surface #2

H. AquaVue™ Color Name and Number:

1. AquaVue may be matched to common color libraries (RAL, Pantone, Benjamin-Moore, etc.) or architect's preferred color sample.

I. US & Canadian Requirements:

PART 3 EXECUTION

3.01 EXAMINATION

A. Site Verification and Conditions

1. Verify that site conditions are acceptable for installation of the glass.
2. Verify compatibility of proposed adhesives with substrate.
3. Verify that the minimum required face and edge clearances are being followed.
4. Do not proceed with glazing until unsatisfactory conditions have been corrected.
5. Verify substrate suitability for designed installation.

3.02. PREPARATION

A. Protection

1. Handle and store product according to GANA Glazing Manual recommendations as well as the recommendations of the manufacturer and fabricator.

B. Surface Preparation

1. Clean and prepare substrates and other framing members to receive glass.
2. Comply with adhesive manufacturers' recommendations. Correct minor defects in substrate using leveling compounds acceptable to AquaVue™ manufacturer and adhesive manufacturer. Prime substrate where recommended.

3.03 INSTALLATION

A. Cut all glazing sheets square, assure edges are smooth and free of chips and hairline cracks.

B. Cut glazing sheets to field measurements, allow for expansion clearances as recommended by manufacturer of materials.

C. Follow all manufacturer's glazing recommendations as well as GANA Glazing Manual recommendations.

D. On AquaVue™ coating, see ICD High Performance Coatings for a complete list of approved sealants and glazing materials.

E. Depending upon the area of use, additional backup material may be required. Backing and reinforcing types of materials may be gypsum, plywood or safety films.

F. Metal “T” or “L” section, or other design-required load bearing components shall be appropriately installed and capable of supporting the weight of the glazing sheet.

G. Surface to receive glass panels shall be smooth and thoroughly dry. A primer may be required.

H. See attached drawings for application methods of sealant. Different methods apply for size of glass as well as height of glass wall. Sealant manufacturers’ instructions must be considered.

3.04. CLEANING

A. Clean excess sealant or compound from glass and framing members immediately after application, using solvents or cleaners recommended by manufacturers.

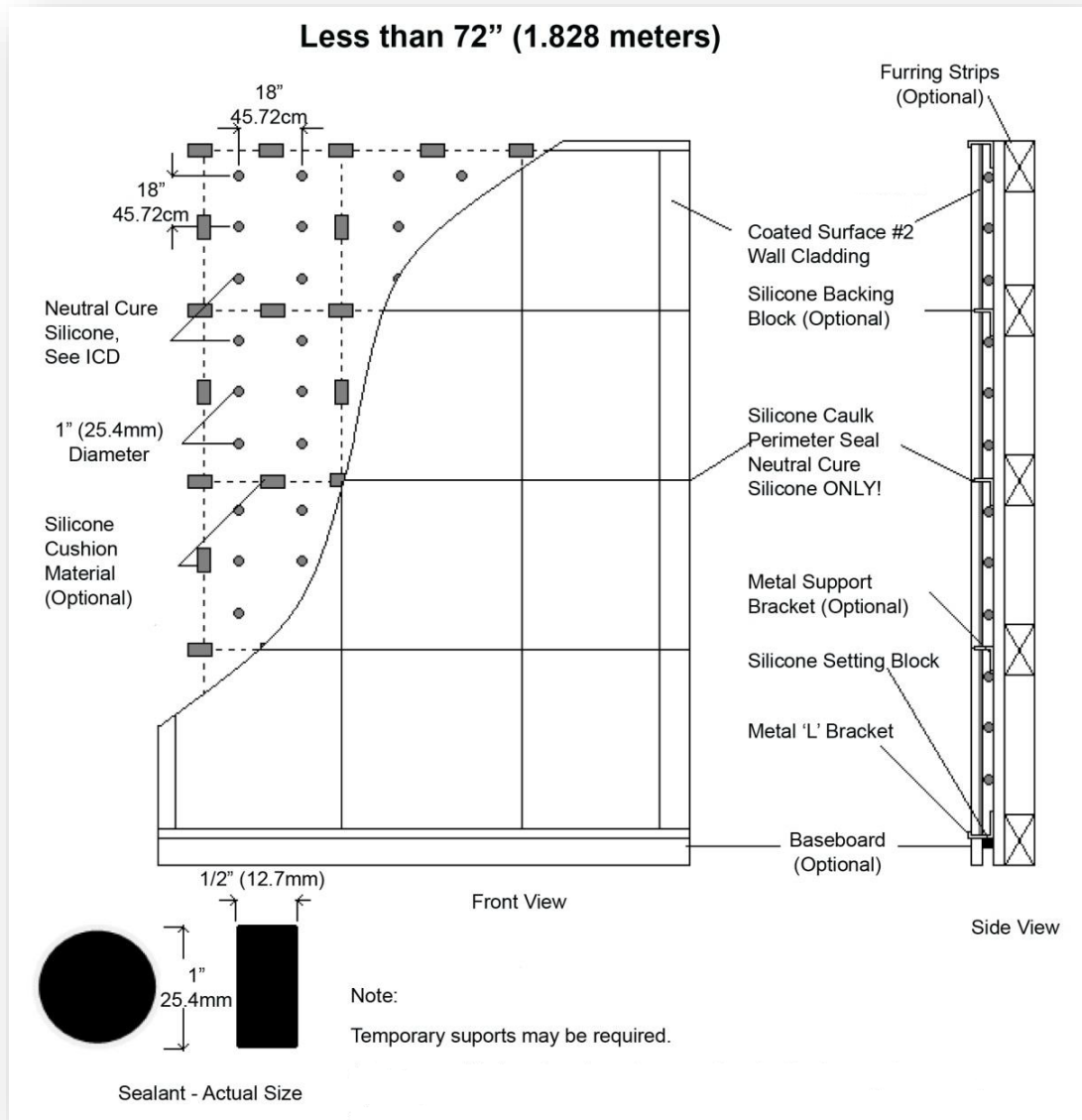
B. Glass to be cleaned according to:

1. GANA Glass Informational Bulletin GANA 01-0300 - Proper Procedures for Cleaning Architectural Glass Products.
2. GANA Glass Informational Bulletin GANA TD-02-0402 - Heat-Treated Glass Surfaces Are Different.

C. Do not use scrapers or other metal tools to clean glass.

**The following diagrams and drawings are meant to guide and aide in the use of ICD High Performance Coatings’ products and in no way should be considered complete or to code. Please consult the GANA Glazing Manual as well as any local and federal building codes and practices.

WALL CLADDING DETAIL >72" IN HEIGHT



- Allow adequate cure time prior to application of the perimeter seal. Please note that the time required to properly allow a sealant to cure may be up to twenty-one days—seek the proper information from the manufacturer!
- Consult with the manufacturers to ensure all glazing components are compatible with each other!
- DO NOT exceed the recommended sealant amount—excess may inhibit cure and lead to staining!

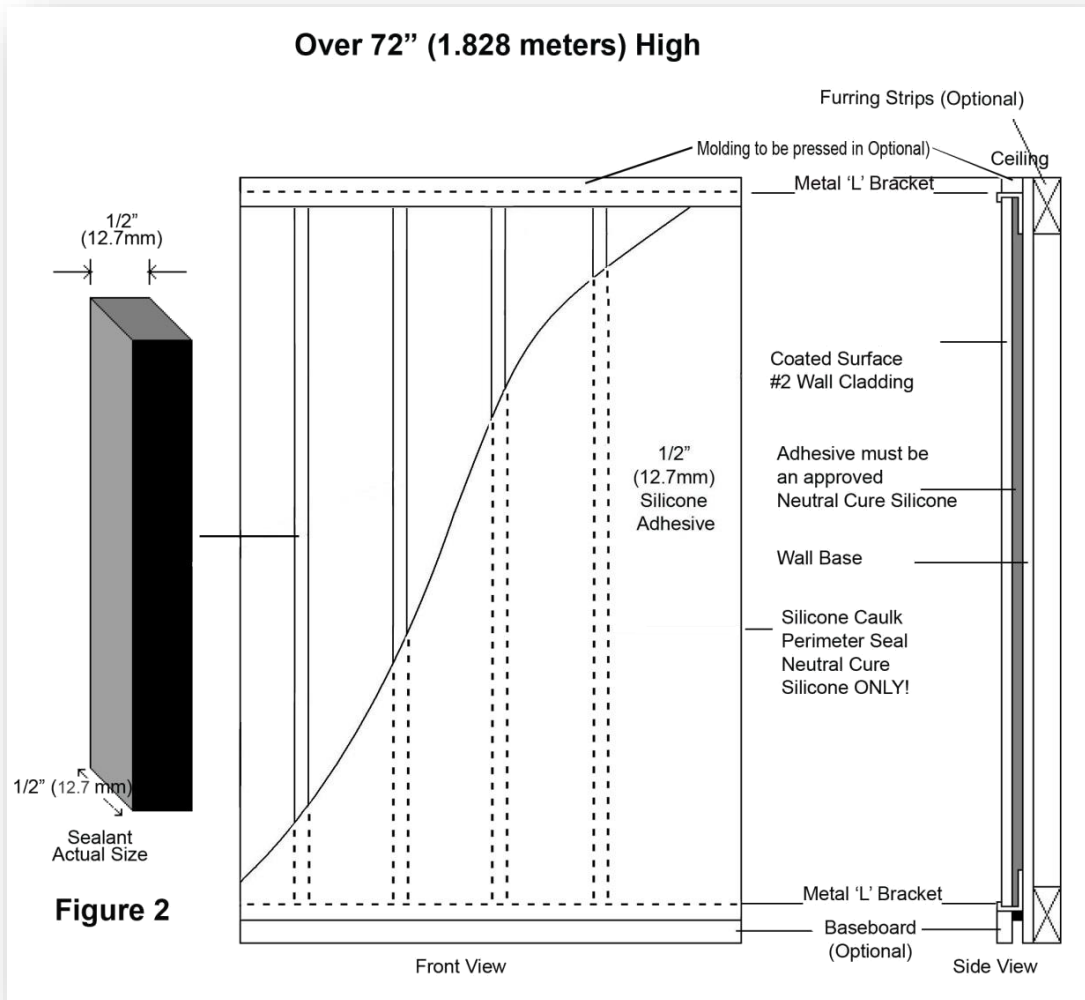
WALL CLADDING DETAIL (AquaVue™)

SECTION 08 81 30

INSTALLATION METHODS: ILLUSTRATION #2

DECORATIVE GLAZING

WALL CLADDING DETAIL >72" IN HEIGHT



- *Wall cladding panels require bracing until cured.*
- *Allow adequate cure time prior to application of the perimeter seal. Please note that the time required to properly allow a sealant to cure may be up to twenty-one days—seek the proper information from the manufacturer!*
- *Consult with the manufacturers to ensure all glazing components are compatible with each other!*
- *DO NOT exceed the recommended sealant amount—excess may inhibit cure and lead to staining!*
- *Vertical sealant only!*