

DIVISION 08 00 00

SECTION 08 00 00 GLASS WALL CLADDING

Please note that this specification is not complete until reviewed by a specification professional. This specification guide only speaks to parts pertaining to the spandrel portion of monolithic and insulated glass unit glazing and its pertinence to spandrel glass. Important parts pertaining to the overall glass and glazing portion of a specification have been omitted.

This specification contains information or will need to have information added with respect to glass fabrication 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. Section includes: OPACI-COAT-300® glass glazing for wall cladding applications.
2. Other contract documents and requirements of Division 1 & 2 apply to work of this Section.

B. Work Included

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

1. Related Sections:
 - a. Sealants - Section 08 44 00
 - b. Glazing - Section 08 00 00
 - c. Gypsum Wall Board - Section 09 21 00
 - d. 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

1. 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. OPACI-COAT-300® wall cladding glass: Glass that has been rendered opaque with a water-based silicone elastomeric coating.

1.04 DESIGN REQUIREMENTS

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

1.05 SUBMITTALS

- A. Submit 12"x12" (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 opacifier manufacturer's Product Data Sheet and glazing instructions.

- C. Glazing contractor shall obtain compatibility reports from component manufacturers (such as opacifier, sealants, gaskets, setting blocks, etc), ensuring that the glazing materials were tested for compatibility.

Please note that other submittal requirements may be added, such as reports and assurances on: security glazing, safety glazing, IGU requirements and testing.

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

1.08 PROJECT/SITE CONDITIONS

1.09 WARRANTY

- A. The opacifying coating will not lose adhesion, flake, peel, chip or develop any noticeable color change for a period of ten (10) years from date of installation.

Please note that warranty statements need to be added for the glass product created at the fabricator level, such as the insulated 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 OPACI-COAT-300® wall cladding glass.
 - 1. The OPACI-COAT-300® opacifying coating shall have a minimum thickness of 6.5 mils dry (0.17mm).
 - 2. Only Approved Factory Fabricators (AFF) are allowed to produce the OPACI-COAT-300® wall cladding glass, as AFF glass fabricators are certified and trained by ICD in the application and manufacture of the wall cladding glass.
 - 3. For a list of Approved Factory Fabricators, please contact ICD at 1.360.546.2286 or www.icdcoatings.com.
 - 4. Approved manufacturers of OPACI-COAT-300®:
 - a. ICD High Performance Coatings, 13911 NW 3rd CT, Vancouver, WA 98685, USA.
- B. Glass type:
- C. Glass tint:
- D. Reflective Coating:
- E. Nominal thickness:
- F. Glass strength (Heat-Strengthened or Tempered):
- G. Spandrel Coating Orientation: Surface #2
- H. OPACI-COAT-300® Color Name and Number:
- I. US & Canadian Requirements:

3.01 EXAMINATION

- A. Site Verification and Conditions
 - 1. Verify that site conditions are acceptable for installation of the glass.
 - 2. Verify openings for glazing are correctly sized and within tolerances.
 - 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.

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 glazing channels and other framing members to receive glass.

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 OPACI-COAT-300® coating, a non-acidic sealant should be used. Sealants or bonding materials with acidic or hydrocarbon-based thinners cannot be used. Gaskets and setting blocks shall be made of silicone. See ICD High Performance Coatings for a complete list of approved sealants and glazing material.
- 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 shall be securely fastened to wall material 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.

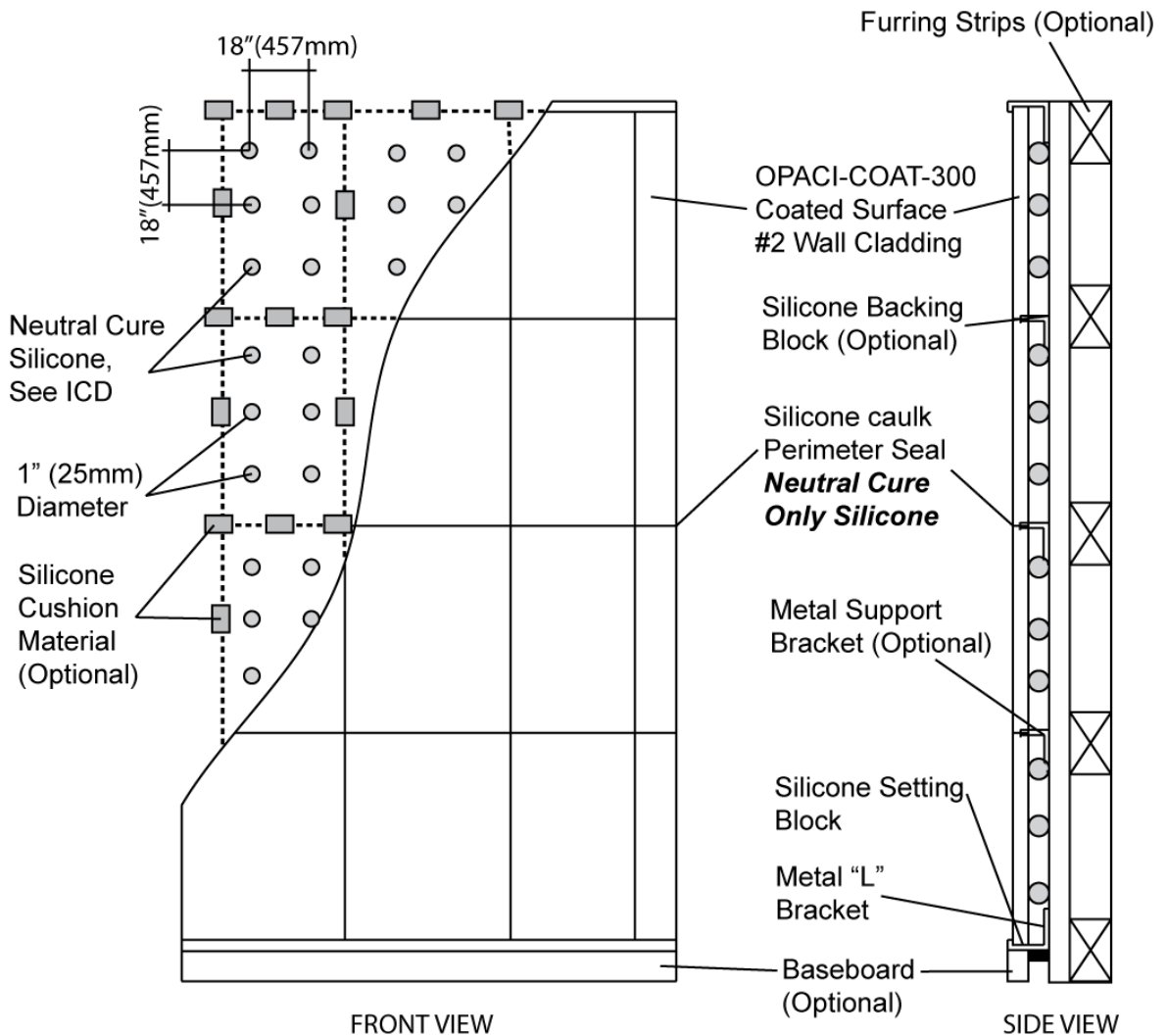
3.04 CLEANING

- 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.
- D. If OPACI-COAT-300® becomes damaged by visible scratches, field repairs can be made to the coating, please contact ICD High Performance Coatings for specific instructions.

WALL CLADDING DETAIL (OPACI-COAT-300)

INSTALLATION METHODS
 ILLUSTRATION #1
 <60" (1524mm) in height
 Lite < 4 square feet
 (0.4 square meters)

**SECTION 08 00 00
 GLASS GLAZING
 WALL CLADDING**

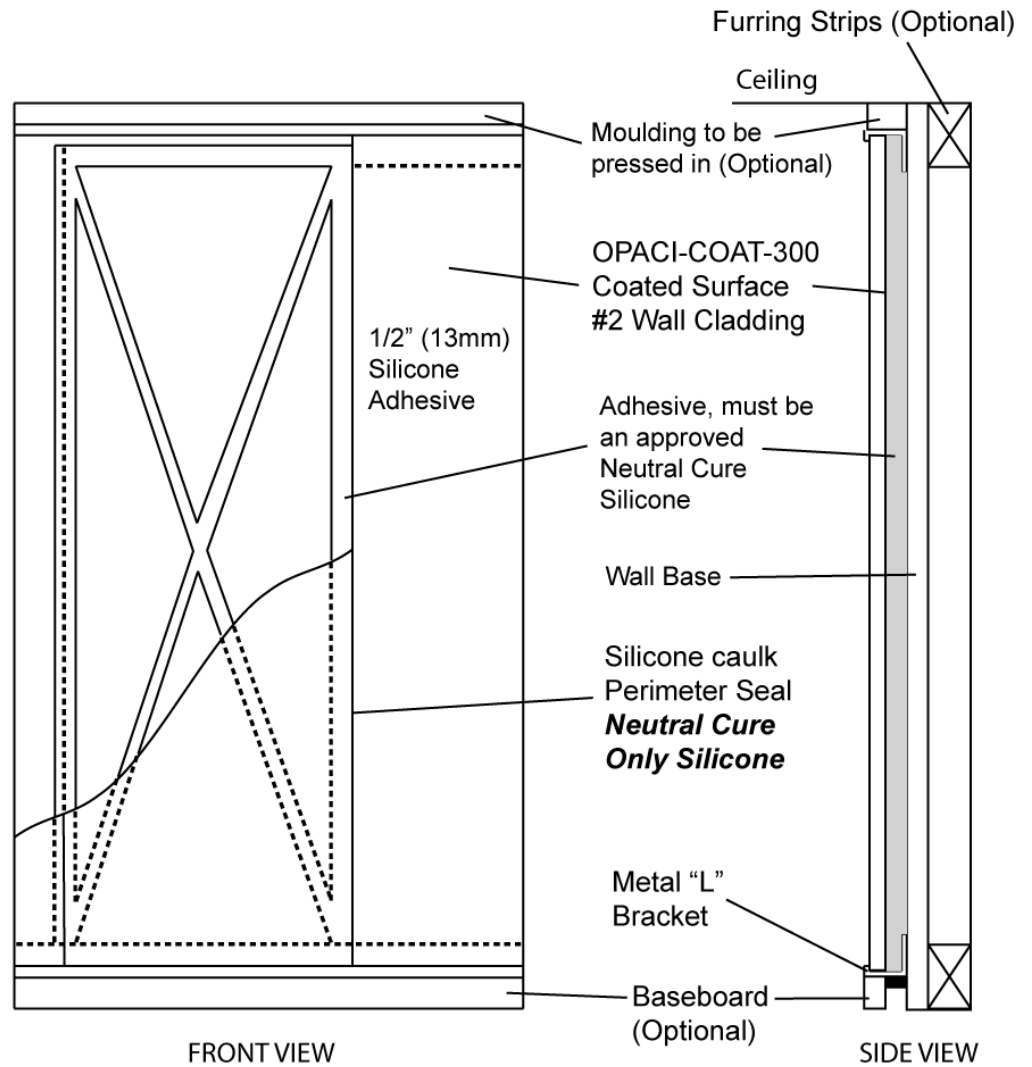


Note: Temporary supports may be required - Allow 24 hours to 48 hours for adequate cure. Ensure all sealants are compatible with each other. Ensure adhesive is no more than 1" (24mm) in diameter, excessive adhesive can lead to a lack of cure which can cause staining

WALL CLADDING DETAIL (OPACI-COAT-300)

**SECTION 08 00 00
GLASS GLAZING
WALL CLADDING**

INSTALLATION METHODS
ILLUSTRATION #2
>60" (1524mm) in height
Lite > 4 square feet
(0.4 square meters)



Note: Wall Cladding Panels Require Bracing Until Cured - Allow 24 hours to 48 hours for adequate cure. Ensure all sealants are compatible with each other. Do not exceed recommended sealant amount, excessive sealant may not cure and lead to staining.

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