

USE THIS SECTION FOR COUNTERTOPS.

GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE, AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. (NUMBERS AND TITLES REFERENCED ARE BASED ON *MASTERFORMAT*, 2004 EDITION).

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING 01 25 13-PRODUCT SUBSTITUTION PROCEDURES, SECTIONS 01 33 00-SUBMITTAL PROCEDURES, 01 62 00-PRODUCT OPTIONS, 01 66 00-PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01 74 00-CLEANING AND WASTE MANAGEMENT, 01 77 00-CLOSEOUT PROCEDURES, AND 01 78 00-CLOSEOUT SUBMITTALS. CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS A PROPRIETARY SPECIFICATION.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G. [35] [40] [45]. MAKE APPROPRIATE SELECTIONS AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G. _____.

OPTIONAL PARAGRAPHS REQUIRING SELECTION OF ONE OF THE OPTIONS ARE SEPARATED BY "OR" WITHIN A BOX, E.G.

OR

OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE SELECTED OR DELETED AS DESIRED ARE SHOWN IN BOLD FACE TYPE. DELETE BOLD FACE TYPE WHEN INCLUDING THESE PARAGRAPHS OR FEATURES.

REVISE FOOTER TO SUIT PROJECT/OFFICE REQUIREMENTS.

PART 1 - GENERAL**1.01 SUMMARY**

A. Section Includes: Horizontal and trim quartz surface product types.

B. Related Sections:

INCLUDE APPROPRIATE SECTIONS BELOW FOR CASEWORK, PLUMBING (IF ANY), AND OTHER SECTIONS SPECIFICALLY RELATED TO COUNTERTOP INSTALLATION.

1. Section _____ - _____.
2. Section _____ - _____.
3. Section _____ - _____.

INCLUDE APPROPRIATE LANGUAGE BELOW IF PRODUCTS SPECIFIED IN THIS SECTION ARE TO BE BID AS ALTERNATES. OTHERWISE DELETE FOLLOWING PARAGRAPH.

C. Alternates:

1. Reference Section 01 23 00- Alternates.

1.02 SUBMITTALS

A. Reference Section 01 33 00-Submittal Procedures; submit following items:

DELETE REQUIREMENTS FOR COLOR SUBMITTALS IN SUBPARAGRAPHS 1. AND 4. BELOW IF COLORS ARE SPECIFIED IN ARTICLE 2.02 OR ARE SHOWN ON DRAWINGS

1. Product Data.
 - a. For each time, dimensional plans and elevations, large scale details, attachment devices and other components.
 - b. Include standard color chart showing full range of available colors for sheet material and sinks.
- 2. Material Safety Data Sheets (MSDS) for products and accessories.**
3. Shop Drawings: Provide plans, sections, and large-scale details. Include attachment provisions and fabrication methods.
4. Samples for Final Color Verification: 4x2 inch (100x65 mm) samples of color(s) selected from initial color chart submittals.
5. Quality Assurance/Control Submittals:
 - a. Qualifications: Proof of fabricator qualifications.
 - b. Certificates: Copies of ISO certifications.
- c. Test Reports:**
 - 1) Flammability test reports.**
 - 2) Food preparation zone use test reports.**
- d. Manufacturer's Fabrication and Installation Manual.**
- e. Manufacturer's Fabrication and Installation Check List.**

B. Closeout Submittals: Reference Section 01 78 00-Closeout Submittals; submit following items:

1. Care and Maintenance Instructions.
2. Special Warranties.

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Fabricator/Installer Qualifications: Minimum three years experience in fabrication and installation of quartz Surface materials or certification by Distributor.

B. Certifications:

1. Manufacturer must hold current ISO 9002 and 14001 certificates.

C. Applicable Standards:

1. American National Standards Institute (ANSI)
2. American Society for Testing and Materials (ASTM)
3. National Electrical Manufacturers Association (NEMA)

1.04 DELIVERY, STORAGE, AND HANDLING

A. Reference Section 01 66 00-Product Storage and Handling Requirements.

B. Follow manufacturer's instructions.

C. Special Instructions: do not deliver components to project site until spaces are ready for installation.

1.05 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Installation spaces must be maintained at normal occupancy temperature and humidity levels for minimum 72 hours prior to and continuously following installation.

1.06 WARRANTY

- A. Special Warranty: Ten year limited warranty against manufacturing defects in slab material.

1.07 MAINTENANCE

A. Extra Materials: Provide for future repair use by Owner.

1. Minimum 4 sf (0.37m²) per 50 lf (15 m) of each countertop color.
2. Color shall be from same dye-lot as installed countertops.

PART 2 - PRODUCTS**2.01 MANUFACTURER**

A. Lotte Chemical Corp.
62 Pyeongyeo-dong
Yeosu-si, Jeollanam-do, Korea

Tel: +82-61-689-1114
Fax: +82-61-689-1535
Website: <http://www.staron.com>

INSERT NAME, ADDRESS AND PHONE NUMBERS OF LOCAL DISTRIBUTOR BELOW.

1. Distributor:

B. Substitutions: None permitted.

2.02 MATERIALS

SELECT COLORS FOR FOLLOWING PARAGRAPHS A.1. AND B.2. FROM MANUFACTURER'S CURRENT CATALOGS TO SPECIFY BELOW OR SHOW ON DRAWINGS. INCLUDE SUBPARAGRAPHS a. ONLY IF ARCHITECT WILL SELECT COLORS FOLLOWING AWARD OF CONTRACT, AND IF MORE THAN ONE COLOR WILL BE SELECTED.

A. Materials: Composition – 93 percent crushed quartz aggregate combined with resin and pigments and fabricated into slabs using vibro-compaction process.

1. Material shall have minimum physical and performance properties specified.

- a. 3 cm (1-1/4") product is typically for horizontal installation and 2 cm (3/4") product is typically for both horizontal and vertical installations.
- b. See manufacturer's product data for panel size limitations.
- c. The thicker the material, the more the cost in both product and labor.

B. Thickness:

- a. 2 cm (3/4")
- b. 3 cm (1-1/4")

C. Edge Treatment:

D. Seam Width: Less than 1/16" unless otherwise noted

E. Sink Mounting:

1. Under-mount
2. Drop In

F. Backsplash: Applied

G. Endsplash: Applied

H. Performance Characteristics: Reference Radianz® Quartz Surface physical properties data sheet

2.03 ACCESSORIES

A. Adhesives to create color-matched seams

B. Physical Performance Characteristics:

- a. Flammability Test (flame spread and smoke developed):
 - 1) Test Procedure: NFPA 255
 - 2) Rating: Class A
- b. Food Zone Use;
 - 1) Test Procedure: NSF 51
 - 2) Rating Pass

2.04 FABRICATION

- A. Weight of product is approximately 12 – 15 PSF and is typically field assembled.
- B. Shop Assembly: Fabricate components in shop to the greatest extent practical, using manufacturer's printed instructions and technical bulletins.
1. Avoid seams within 3" (75 mm) of inside or outside corners

VERIFY THAT SHAPES AND DIMENSIONS FOR EDGES AND BACKSPLASHES IN SUBPARAGRAPHS C. AND D. BELOW ARE SHOWN ON DRAWINGS.

- C. Edge Treatment: Shape and dimension as show on Drawings.
- D. Backsplash: Shape and dimension as show on Drawings.
- E. Provide holes and cutouts for penetrations and sinks and bowls as shown on Drawings and scheduled in other sections.

2.05 FINISHES

- : Select from manufacturer's standard color chart.
- A. Color

PART 3 - EXECUTION**3.01 EXAMINATION**

- A. Examine cabinets upon which countertops will be installed.

COORDINATE WITH CABINET SPECIFICATION SECTION TO ASSURE THAT CABINETS ARE SET TO THE FOLLOWING TOLERANCE OR BETTER.

1. Verify that cabinets are level to 1/8" (3 mm) in 10' (3 m).
2. Review manufacturer's Fabrication and Installation Check List.

- B. Coordinate with responsible entity to correct unsatisfactory conditions.
- C. Commencement of work by installer is acceptance of cabinet conditions.

3.02 INSTALLATION

MANUFACTURER'S INSTALLATION INSTRUCTIONS ARE ADEQUATE FOR NORMAL INSTALLATION CONDITIONS. UNUSUAL CONDITIONS MAY REQUIRE ADDITIONAL INFORMATION IN THIS ARTICLE.

- A. Install countertops and secure to cabinets in accordance with manufacturer's Fabrication and Installation Manual.
- B. Install Sinks and Bowls:
1. Mounting Type: [Under mount] [Drop In] [As shown on Drawings].
 2. Secure under mount sinks and bowls to countertops with clip system as recommended by manufacturer.

3.03 REPAIR

- A. Repair minor imperfections and cracked seams in accordance with manufacturer's Fabrication and Installation Manual.

3.04 CLEANING

- A. Reference Section 01 74 00- Cleaning and Waste Management.
- B. Clean surfaces in accordance with manufacturer's Care and Maintenance Instructions.

3.05 PROTECTION

- A. Cover surfaces in accordance with manufacturer's Care and Maintenance Instructions.

END OF SECTION¹

1. This specification was prepared specifically for Lotte Chemical Corp.. Comments or suggestions for improvement should be addressed to Lotte Chemical Corp. Chemical at the address listed in Article 2.01 A.

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