

USE THIS SECTION FOR FLOORING

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).

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY. ALSO DELETE ANY OTHER ITEM OR PARAGRAPH NOT APPLICABLE IN THE SECTION AND RENUMBER THE PARAGRAHS.

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

ITEMS REQUIRING USER INPUT ARE ENCLOSED WITHIN BRACKETS, E.G.: "SECTION [ \_\_\_\_\_ - \_\_\_\_\_ ]."

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

OR

EDITING NOTES TO ASSIST USERS ARE INCLUDED WITHIN BORDERED BOXES. DELETE SUCH NOTES PRIOR TO FINAL PRINTING.

ADDITIONAL SECTIONS ARE AVAILABLE FOR OTHER USES OF RADIANZ<sup>®</sup> QUARTZ SURFACES INCLUDING:

- SECTION 06 61 09 – QUARTZ SURFACE COUNTERTOPS

REVISE FOOTER TO SUIT PROJECT/OFFICE REQUIREMENTS.

## PART 1 - GENERAL

### 1.01 SUMMARY

A. Section Includes: Stone flooring product types.

B. Related Sections:

INCLUDE APPROPRIATE SECTIONS BELOW FOR CASEWORK, JOINTSEALER, AND OTHER SECTIONS SPECIFICALLY RELATED TO FLOORING INSTALLATION.

1. Section \_\_\_\_\_ - \_\_\_\_\_.
2. Section \_\_\_\_\_ - \_\_\_\_\_.
3. Section \_\_\_\_\_ - \_\_\_\_\_.

## 1.02 SUBMITTALS

- A. Samples: If colors are indicated on drawings, submit [4 x 2] [ \_\_\_ x \_\_\_ ] inch ([100 x 65] [ \_\_\_ x \_\_\_ ] mm) samples showing [each] color and finish. If colors are not indicated on drawings, submit manufacturer's standard color book showing colors of actual material in not smaller than 1-1/2" (36mm) size. Following selection of colors, submit samples as specified above. Reference samples are indicative of color shade and structure.
- B. Shop Drawings: Indicate flooring layout, dimensions, patterns, and control joint locations.
- C. Manufacturer's Instructions: Submit complete manufacturer's fabrication and installation instructions.
- D. Upon completion, furnish the Owner one set of manufacturer's recommended cleaning procedures.
- E. LEED Points: Submit supporting evidence of LEED points available by using RADIANTZ® Quartz Surfaces. Request or download from [www.staron.com](http://www.staron.com). PDF file with instructions. Supporting evidence must be supplied for:
- [MR CREDIT 2: Construction Waste Management: 2 points]
  - [MR CREDIT 3: Materials Reuse: 2 points]
  - [MR CREDIT 4: Recycled Content: 2 points]
  - [MR CREDIT 5: Regional Materials: 2 points]
  - [IEQ Credit 4.1 Low-Emitting Materials - Adhesives & Sealants: 1 point]
  - [IEQ Credit 5: Indoor Chemical and Pollutant Source Control: 1 point]
  - [ID Credit 1: Innovation in Design: 3 points]
- F. RADIANTZ® Quartz Surfaces Care & Maintenance Booklet (which can be downloaded on [www.staron.com](http://www.staron.com))
- G. Provide evidence that materials have been supplied by LOTTE ADVANCED MATERIALS CO., LTD.

## 1.03 QUALITY ASSURANCE

- A. Where homogeneous stone, solid surfaces, solid surfacing, engineered stone, quartz surfaces or quartz surfacing is indicated on drawings, the material shall be "RADIANTZ® Quartz Surfaces" supplied by LOTTE ADVANCED MATERIALS, Inc – 62 Pyeongyeo-dong, Yeosu-si, Jeollanam-do, Korea (Email: [staron.us@LOTTE-ADVANCED-MATERIALS.com](mailto:staron.us@LOTTE-ADVANCED-MATERIALS.com), Tel +82-61-689-1114, FAX +82-61-689-1535).
- B. Installer Qualifications: Installation of RADIANTZ® Quartz Surfaces shall be by a firm that is authorized by RADIANTZ® Authorized Distributor to fabricate and install RADIANTZ® Quartz Surfaces, and/or that can demonstrate successful experience in installing finished items similar in type and quality to those required for this project.

## 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Packing And Loading: Finished RADIANTZ® Quartz Surfaces shall be carefully packed and loaded for shipment using all reasonable and customary precautions against damage in transit. No material which may cause staining or discoloration shall be used for blocking or packing. Transport and handle sheets and fabricated items by methods that will prevent structural and aesthetical damage and defacing.
- B. Site Storage: Upon receipt at the building site, RADIANTZ® Quartz Surfaces shall remain in the factory-prepared bundles until beginning of the installation. Bundles shall be staged in an area which is least susceptible to damage from ongoing construction activity. If storage is to be prolonged, polyethylene or other suitable, no staining film shall be placed between any wood and finished surfaces of the RADIANTZ® Quartz Surfaces.
- C. Any holes or slots in the RADIANTZ® Quartz Surfaces which are capable of collecting water shall be temporarily covered or plugged to prevent freezing of collected water. Such covers or plugs are to be removed immediately prior to installation of the piece.

D. Project Conditions Maintain ambient temperature between 41 and 86 degrees F (5 and 30 degrees C) for 48 hours before, during and for minimum 7 days after installation.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURER

A. LOTTE ADVANCED MATERIALS CO., LTD. Tel: +82-61-689-1114  
62 Pyeongyeo-dong Fax: +82-61-689-1535  
Yeosu-si, Jeollanam-do, Korea Website: <http://www.staron.com>

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

1. Distributor:

B. Substitutions: None permitted.

### 2.02 MATERIALS

- A. Quartz Surfacing Tiles
1. Composition: Non-porous blend of polyester resin and natural quartz filler formed into flat slabs.
  2. Performance properties: Refer to RADIANTZ Quartz Surfaces physical properties.
  3. Thickness: [3/4" (2cm)] [1-1/4" (3cm)]
  4. Color: [ ] [To be selected from manufacturer's standards] [Custom color to be matched].
  5. Surface finish: [Polished] - [Honed]
  6. Size: [24"x24"] [ ]
  7. Other: [ ]
  8. Extra Material: [ %] - [ ]

IF RESISTANCE TO CHEMICALS IS A PROJECT REQUIREMENT, STATEMENTS CAN BE ADDED HERE. REFER TO RADIANTZ QUARTZ SURFACES PHYSICAL PROPERTIES FOR INFORMATION ON CHEMICAL RESISTANCE.

### 2.03 DIMENSIONAL TOLERANCES

- A. Panel thickness of 3/4" (2cm): ± 1.00mm
- B. Panel thickness of 1-1/4" (3cm): ± 1.00mm
- C. Panel flatness of 3/4" (2cm): ± 1.00mm per 1m
- D. Panel flatness of 1-1/4" (3cm): ± 1.00mm per 1m

## PART 3 - EXECUTION

### 3.01 SETTING MATERIAL

EDIT THE FOLLOWING PARAGRAPH FOR THIN-SET MORTAR

- A. Latex-Portland Cement Mortar ANSI A118.4.
- B. Latex Admixture: 100 percent latex type. Do not use water.

OR

EDIT THE FOLLOWING PARAGRAPH FOR THIN-SET MORTAR

- C. Portland Cement: ASTM C 150, Type 1, [gray] [white] color.
- D. Sand: ASTM C 144, clean, free of organic matter, passing a No 16 sieve.
- E. Lime: ASTM C 207. Type S, hydrated.
- F. Latex Admixture: 100 percent latex type. Do not use water.
- G. Grout:
  1. ANSI A118.6, cementitious type with latex additive.
  2. Color: [ ] [To be selected from manufacturer's standards].

### 3.02 ACCESSORIES

COORDINATE THE FOLLOWING PARAGRAPH WITH THE JOINT SEALANTS SECTION. SILICONE SANITARY SEALANTS ARE RECOMMENDED WHERE RESISTANCE TO MILDEW IS REQUIRED.

- A. Joint Sealants: Single component [polyurethane] [silicone sanitary] sealant and backing materials ; specified in Section [ ] [ ].

INCLUDE THE FOLLOWING PARAGRAPH ONLY FOR A REINFORCE THICK-SET MORTAR BED

- B. Reinforcing: 2 x 2 inches (50 x 50 mm), 16/16 gage (1.6/1.6 mm) welded wire mesh, hot dip galvanized.

INCLUDE THE FOLLOWING PARAGRAPH ONLY FOR A THICK-SET MORTAR BED OVER CLEAVAGE MEMBRANE

- C. Cleavage Membrane: No. 15 asphalt saturated felt or 4 mil (0.02 mm) polyethylene film.

### 3.03 MIXES

- A. Mix mortar and grout with latex admixture in accordance with manufacturer's instructions. Do not use water.

**3.04 PREPARATION**

- A. Clean surfaces to remove loose and foreign matter that could impair adhesion.
- B. Remove ridges and projections. Fill voids and depressions with patching compound compatible with setting materials.
- C. Allowable Substrate Tolerances:

INCLUDE THE FOLLOWING PARAGRAPHS FOR A THIN-SET MORTA BED

1. Maximum variation in substrate surface: 1/8 inch in 8 feet (3 mm/2400 mm).
2. Maximum height of abrupt irregularities: 1/32 inch (1.0 mm).

OR

INCLUDE THE FOLLOWING PARAGRAPH FOR A THICK-SET MORTAR BED

3. Maximum ¼ inch in 10 feet (6 mm/3 m) variation in subfloor surface.

INCLUDE THE FOLLOWING PARAGRAPH FOR A THIN-SET MOTAR BED

- A. Install flooring in accordance with ANSI A108.5, thin-set with latex-portland cement mortar.

INCLUDE THE FOLLOWING PARAGRAPH FOR A THICK-SET MORTAR BED, REINFORCED OR PLAIN, WITH OR WITHOUT CLEAVAGE MEMBRANE; EDIT SUIT PROJECT REQUIREMENTS.

- B. Install flooring in accordance with ANSI A 108.1, thick-set with [reinforced] mortar bed [over cleavage membrane].

INCLUDE THE FOLLOWING PARAGRAPH IF A REFERENCE TO THE TCA MANUAL IS DESIRED; EDIT TO SUIT PROJECT REQUIREMENTS.

- C. Install flooring in accordance with TCA method F-[\_\_\_\_\_].
- D. Minimize pieces less than one half size. Locate cuts to be inconspicuous.
- E. Lay flooring to [\_\_\_\_\_] [indicated] pattern. [Do not interrupt pattern through openings.]
- F. Place flooring with uniform, minimum [1/6] [\_\_\_\_\_] inch ([2] [\_\_\_\_\_] mm) wide joints.
- G. Fit flooring around projections and at perimeter. Smooth and clean cut edges.  
Ensure that trim will completely cover cut edges.
- H. Sound flooring after setting and before grouting. Replace hollow sounding units.
- I. Allow flooring to set for a minimum of 48 hours before grouting.
- J. Grout joints in accordance with ANSI A108.10. Prevent excess grout on flooring faces.
- K. Install control joints over joints in substrate. Fill with sealant as specified in Section [07900] [\_\_\_\_\_].

## 3.05 PROTECTION

- A. Protect completed work under provisions of Section [ ] using non-staining sheet coverings.
- B. Prohibit traffic on flooring for minimum of 72 hours after installation.

END OF SECTION