

GUIDE SPECIFICATION FOR PALLADIANA

(Revised 6/94 Supersedes all previous Specifications for Palladiana)

SECTION 09 PALLADIANA

Minimum thickness of 1/2" topping can be installed as monolithic, bonded, or sand cushion. This specification is for the bonded system.

PART 1-GENERAL

1.01 RELATED WORK SPECIFIED IN OTHER SECTIONS

NOTE: DELETE NONAPPLICABLE ITEMS.

- A. Furnishing and/or installation of metal lath and scratch coat.

Section _____

- B. Attachment of metal stairs, any welding and/or reinforcing.

Section _____

- C. Furnishing and setting surface hardware.

Section _____

- D. Furnishing and setting floor drains,

Section _____

- E. Setting of metal base beads and wood ground,

Section _____

NOTE: DELETE IN CASES WHERE JURISDICTION PERMITS TERRAZZO CONTRACTOR TO INSTALL.

- F. Concrete subfloor, Section _____

NOTE: SUBFLOOR SHOULD NOT VARY MORE THAN 1/4" FROM TRUE PLANE IN 10 FOOT SPAN WITH A BROOM FINISH FREE OF LAITANCE. NO CURING AGENTS OR OTHER ADDITIVES WHICH COULD PREVENT BONDING SHOULD BE USED. SAW CUTTING OF CONTROL JOINTS MUST BE DONE BETWEEN 12-24 HOURS AFTER PLACEMENT OF THE STRUCTURAL CONCRETE.

- G. Broom clean area to receive Palladiana of loose chips, laitance and foreign matter.

- H. Sufficient water, temporary heat and light, and adequate electric with suitable outlets connected and distributed for use within 100 feet of any working space.

NOTE: AMBIENT TEMPERATURES SHALL BE MAINTAINED AT A MINIMUM OF 50 DEGREES FAHRENHEIT.

1.02 QUALITY ASSURANCE

- A. Acceptable supplier:

1. Materials furnished shall meet NTMA Specifications.

- B. Installer qualifications:

1. Installer shall be a contractor member of NTMA and shall perform all work in accordance with NTMA standards.

2. If installer is not a contractor member of NTMA, installer shall submit a list of completed projects of a similar magnitude and complexity.

1.03 SUBMITTAL

- A. Samples:

1. Submit a maximum of three samples, minimum 12" x 12" for each color and type of Palladiana specified.

2. Submit two, 6" minimum lengths of each type and kind of divider strips.

- B. Maintenance Literature:

1. Submit two copies of maintenance recommendations of NTMA or maintenance product members of NTMA.

- C. Certification:

1. Suppliers shall furnish certification attesting that materials meet specification requirements.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Delivery of materials:

1. Deliver materials in a manner to prevent damage to containers and/or bags.

- B. Storage of materials:

1. Store materials in a clean, dry and heated (if necessary) location.

1.05 GUARANTEE

One year from date of substantial completion of Terrazzo installation.

PART 2-PRODUCTS

2.01 MATERIALS

- A. Portland cement:

ASTM C 150, Color _____

NOTE: SELECT AND SPECIFY WHITE OR GRAY FOR TERRAZZO TOPPING. WHITE CEMENT IS UNIFORM IN COLOR. GRAY CEMENT MAY NOT BE UNIFORM IN COLOR AND MAY PRODUCE A VARIATION OF SHADE IN THE MATRIX. (See product information)

- B. Sand: Clean, washed, locally available sand.

- C. Fractured Marble Slabs:

1. Surface Dimension: Uniform 3/4 or 3/8 inch nominal thickness.

2. Abrasion and Impact resistance when testing in accordance with ASTM C 131-89 shall not exceed 40% loss.

- D. Strips:
1. Divider Strips: _____ (gauge)
 _____ (material)
 with a depth of _____ (inches)
 for a topping thickness of _____ (inches).
NOTE: (SEE DIVIDER STRIPS) SELECT GAUGE, MATERIAL, STRIP DEPTH AND TOPPING THICKNESS. GAUGE: 18, 16, OR 14 B & S GAUGE OR 1/8, 1/4, OR 3/8 INCH HEAVY TOP. MATERIAL: WHITE ALLOY OF ZINC, BRASS OR PLASTIC.
 2. Control Joint Strip: _____ (gauge)
 _____ (material)
 _____ (depth).
NOTE: SELECT GAUGE AND DEPTH OF SOLID METAL STRIPS, POSITIONING STRIPS BACK TO BACK OR WITH OR WITHOUT TEMPORARY FILLER AS REQUIRED. GAUGE: 16 OR 14 B & S GAUGE.
- E. Colorants: Alkali-resistant color stable pigments.
NOTE: REFER TO NTMA INFORMATION GUIDE FOR FURTHER INFORMATION.
- F. CURING MATERIAL: WATER, WET SAND, OR POLYETHYLENE SHEETING.
- G. TERRAZZO CLEANER:
1. Ph factor between 7 and 10, where applicable.
 2. Biodegradable and phosphate free.
- H. Sealer:
1. Ph factor between 7 and 10, where applicable.
 2. Shall not discolor or amber.
 3. Penetrating type specially prepared for use on Palladiana.
 4. Flash Point: ASTM D 56, 80 degrees Fahrenheit minimum, where applicable.
 5. U/L listed as Slip Resistant.

2.02 MIXES

- A. Marble Selection:
1. Type: Palladiana.
 2. Marble Type: _____
NOTE: SELECT COLOR AND DESIGN FROM SAMPLES SUBMITTED BY TERRAZZO INSTALLER.
- B. Proportions:
1. Underbed: One part Portland cement to four parts sand and sufficient water to provide workability at as low a slump as possible.
 2. Palladiana Topping: Fractured marble slabs.
- C. Mixing:
1. Underbed:
 - a. Charge and mix sand and Portland cement.
 - b. Add water and mix.
 2. Palladiana Joints:
 - a. Charge and mix filler materials, Portland cement and color pigment, if required.
 - b. Add water and mix to a uniform workable consistency.

PART 3-EXECUTION

3.01 INSPECTION

- A. Examine areas to receive Palladiana for:
1. Defects in existing work that affect proper execution of Palladiana work.
 2. Deviations beyond allowable tolerances for the concrete slab work.
- B. Start work only when all defects have been corrected by others.

3.02 INSTALLATION

- A. Underbed:
1. Saturate concrete subfloor with water, slush and broom with neat cement paste.
 2. Place concrete underbed.
 3. Screed underbed to elevation as required for fractured marble slab thickness.
 4. Install control joint strips precisely above structural concrete joints taking care that control joint strip is full depth of underbed.
- B. Placing Palladiana:
1. Saturate underbed with water and apply neat cement slurry same color as specified for the joints.
 2. Broom slurry into underbed surface.
 3. Spread slurry on underside of fractured marble slabs.
 4. Place slabs and firmly bond to underbed to form even joints of about _____ inches between slabs.
NOTE: SELECT WIDTH OF JOINTS USUALLY ABOUT 3/8" TO 1-1/4 INCHES.
 5. Trowel filler mix into joints. Color as selected.
- C. Curing:
1. After completing placement of Palladiana, apply curing material, water, wet sand, polyethylene sheeting.
 2. Cure until topping develops sufficient strength to prevent lifting or pulling of Palladiana during grinding.
- D. Finishing:
1. Rough Grinding:
 - a. Grind with 60 or finer grit stones or with comparable diamond plates.
 - b. Follow initial grind with 120 or finer grit stones.
 2. Grouting:
 - a. Cleanse floor with water and rinse.
 - b. Remove excess rinse water and machine or hand apply grout, taking care of fill voids.
 3. Cure Grout:
NOTE: GROUT MAY BE LEFT OF PALLADIANA UNTIL ALL HEAVY AND MESSY WORK ON PROJECT IS COMPLETED.

- 4. Fine Grinding:
 - a. Grind with 220 or finer grit stones until all grout is removed from surface.
- E. Cleaning and Sealing:
 - 1. Wash all surfaces with a neutral cleaner.
 - 2. Rinse with clean water and allow surface to dry.
 - 3. Apply sealer in accordance with manufacturer's directions.
- F. Protection:
 - 1. Upon completion, the work shall be ready for final inspection and acceptance by the owner or his agent.
 - 2. The General Contractor shall protect the finished floor from the time the flooring contractor completes the work.