Stone Deck Specifications

1) Stone Deck Panel

- a. Size- 16 "x 16" = 1.78 square feet
- b. Fiberglass and Stone union
- c. System thickness is 1 1/16" from top of joist to top of stone.
- d. Panel weight = 8 to 10 pounds per s.f. depending on stone type.
- e. Panel Strength minimum of 4000 p.s.f. of flexural strength. Strength varies with stone and done in accordance with AC #174.
- f. Flame spread meets ASTM E 84

2) Fiber Re-enforced Backing

- a. meets or exceeds ASTM test
 - i. D790 Flexural strength
 - ii. D638 tensile strength
 - iii. D695 Compressive strength
 - iv. D953 Bearing strength
 - v. D570 Water Absorption
 - vi. D696 Coefficient of Thermal Expansion
 - vii. D635 Self Extinguishing

4) Stones

- a. Size nominal 16" x 16" x 9/16"
- b. Stones have an ASTM #C121 water absorption of .01%-1.1% depending on stone type. **Granites** have an ASTM #C1026 Freeze thaw unaffected rating or a natural resistance to damage under freeze thaw conditions.
- c. Generally all stones have an ASTM# 1028 coefficient of friction equal to or greater than wood or composites. (**Granites** have a thermal or sandblasted surface and **Slates** have natural clefting)

5) Joist Plate

a. High Strength Polyethylene composite – 9 5/8 inches long with a connecting spline molded to the plate. Four 1/8" spacers are molded to the plate on each wing to self space the Stone Deck panels. Each **Joist Plate** is pre-drilled to run on top of the joist and requires a minimum of three screws (one in the center and two in opposing holes on top of the joist).

6) Screws

- a. Use #7 x 11/4" countersunk screws in the **Joist Plate** countersunk screw holes.
- b. Make sure screws are compatible with the framing material.

7) Construction Adhesive

a. Use an exterior grade construction adhesive (PL400 or equivalent) to fasten panel to **Joist Plate** as necessary

8) Sealer

a. Use of an impregnator sealer is required to reduce staining and to protect the stone in freeze thaw conditions.