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## A. FOOTING PAD

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### Precast Concrete Slabs

610 mm x 610 mm x 90 mm  
(24" x 24" x 3.5")



All tests are in accordance with CSA standard  
**CSA A231.1-19**

### Physical Properties

#### **Flexural, Transverse Strength (MPa):**

Average 5.6

#### **Compressive Strength (MPa)**

Average 42.4

#### **Water Absorption (% by Mass):**

Average 1.2

#### **Freeze- Thaw Loss (% by Mass):**

Meets or exceeds, < 300 g/m<sup>2</sup> at 28 cycles  
or < 800 g/m<sup>2</sup> at 49 cycles

### Permissible Variations in Dimensions

#### **Warpage:**

≤ 450 mm = 2.0 mm, > 450 mm = 3.0 mm

#### **Length:**

A tolerance of -1.0 mm to +2.0 mm shall be permitted

#### **Width:**

A tolerance of -1.0 mm to +2.0 mm shall be permitted

#### **Height:**

A tolerance of +/- 3.0 mm shall be permitted

*"The CSA Standard requires a minimum average flexural (bending) strength of 725psi (5.0MPa), freeze-thaw durability when exposed to deicing salts, and conformance to dimensional tolerances. Flexural (rather than compressive strength) is used to assess unit strength since the larger slabs are exposed to bending and cracking. Compressive strength is excluded from the standard because it is not a true measure of the performance of the concrete. It can increase as the thickness of the tested unit decreases. Therefore, a high compressive strength test result required from a thin slab gives a false indication of a slab's resistance to bending since thinner slabs will break in bending more readily than thicker ones."  
(From ICPI Tech Spec 14 –Concrete paving units for Roof decks.)*

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## B. MANUFACTURER

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