

**Subject: Laminam 3+ mm and 5.6mm on fireplaces, submerged applications, shower floors, and elevator floors.**

**Fireplace surrounds:**

Laminam 3+ should not be bonded to any surface that is anticipated to reach temperatures exceeding 100°C (212°F), due to possible effects on the backing material (polyurethane bonded fiberglass). Laminam 5.6 mm only should be used in applications exceeding these temperatures. Laminam in either thickness should never be used inside the firebox. For installations exposed to heat verify with the setting material manufacturer the appropriate bonding, grouting, and movement joint materials which are critical in this application where exposure to thermal variation is more prevalent. For fireplace surrounds, when possible a soft joint between the horizontal face and vertical sides is recommended to accommodate thermal movement.

**Submerged applications:**

Laminam 5.6 mm is suitable for submerged applications. Verify the proper installation system, setting materials, grouts, and movement joint materials with the setting material manufacturer. Laminam 3+ should not be used in these applications due to widely varying water chemistries and their possible effect on the Laminam 3+ backing material (polyurethane bonded fiberglass).

**Shower floors:**

There are currently no standards that address the required DCOF (Dynamic Coefficient of Friction) for any area other than “level interior spaces expected to be walked upon when wet”. Shower floors by their requirement for slope to drain fall outside this distinction. With the advent of linear drains, larger pieces of tile can be used without the need to conform to a sloping center drain. Currently there are no Laminam finishes that provide sufficient structure and slip resistance in wet areas when all the grout joints that normally provide drainage and traction are eliminated. This is strictly a recommendation based on DCOF and no other structural or durability reasons. Customers choosing to proceed or cut the Laminam into sizes they feel make it more suitable are proceeding outside of Crossville recommendations and do so of their own volition.

**Elevator floors:** Elevator floors offer challenges for any thickness of tile. If interested in using Laminam 5.6 mm on elevator floors please review this document available on the website (Laminam-elevator floors).

**Elevator walls:** Laminam 3+ and 5.6 mm are perfect materials for elevator walls due to their durable porcelain characteristics and light weight nature. Installation in these applications should proceed using TCNA Handbook details for interior walls, or with proprietary systems normally developed and specified by elevator cab design/build companies.

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