



REQUEST APPROVAL OF ALTERNATIVE ADHERED PORCELAIN TILE PANELS FOR EXTERIOR VERTICAL SURFACES

PROJECT ADDRESS: _____ BUILDING PERMIT NUMBER: _____

APPLICANT: _____ APPLICANT PHONE: _____

APPLICANT ADDRESS: _____ APPLICANT EMAIL: _____

APPLICANT'S RELATIONSHIP TO PROJECT: _____

OWNER/ARCHITECT: _____ OWNER/ARCHITECT PHONE: _____

ADDRESS: _____ EMAIL: _____

1.) Describe the proposed alternative porcelain tile panel material, design, size, installation method, or special equipment needed. Use additional sheets as necessary.

2.) Does the proposed alternative porcelain tile panel comply with the intent of the provisions of the Construction Codes, and/or is the proposed alternative size, material, installation method or special equipment, for the intended purpose, the equivalent of that prescribed in the Construction Codes in quality, strength, effectiveness, fire resistance, durability, and stability?

If yes, please explain (use additional sheets as necessary).

3.) Is the proposed alternative porcelain tile panel, size, material, design, installation method and/or special equipment supported by data from valid research reports from approved sources that is submitted as part of this application?

YES _____ NO _____

If yes, please list the attached supporting reports with justification as to their validity in the space provided. Use additional sheets as necessary.

4.) Does the proposed alternative porcelain tile panel material, design, size, installation method and/or special equipment lessen health, accessibility, life and fire safety, or structural requirements? YES* _____ NO _____

If no, please explain in the space provided. Use additional sheets as necessary.

*If you have checked yes, this request will be denied.



Code Official Seal or Signature and Date: _____

The above acknowledges that the proposed alternative/ modification does not affect a technical, structural, fire safety or design requirement, or any requirement affecting the public health, safety or welfare.

Owner's/Architect Signature: _____

Printed Name: _____

Applicant's Signature: _____

Printed Name: _____

Date: _____

REFERENCE IBC EXCERPTS:

Building Code Requirements and Specification for Masonry Structures

COMMENTARY

6.3 Adhered veneer

63.1 Alternative design of adhered masonry veneer

There are no rational design provisions for adhered veneer in any code or standard. The intent of Section 6.3.1 is to permit the designer to use alternative unit thicknesses and areas for adhered veneer. The designer should provide for adhesion of the units, control curvature of the backing, and consider freeze-thaw cycling, water penetration, and air and vapor transmission. The Tile Council of America limits the deflection of the backing supporting ceramic tiles to span length divided by 360^{6.18}.

SECTION 104 DUTIES AND POWERS OF BUILDING OFFICIAL

104.11 Alternative materials, design and methods of construction and equipment.

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

LAMINAM ISO TEST RESULTS: Collection Series	3+mm	5.6mm
ISO 10545-3 Water Absorption	0.09	0.09
ISO 10545-4 Bending Strength	Avg. Value 50 N/mm ²	50 N/mm ²
MOHs HARDNESS	> 6	>6
ISO 10545-6 Resistance Deep Abrasion	<175mm ³	<175mm ³
EN 13501 Fire Resistance	A2	A1
ISO 10545-8 Coefficient of Linear Thermal Expansion (10 ⁻⁶ /°C)	6.6	6.6
ISO 10545-9 Thermal Shock	Resistant	Resistant
ISO 10545-13 Chemical Resistance	No Visible Effect	No Visible Effect
ISO 10545-12 Frost Resistance	Resistant	Resistant