

Engineered Ceramic Cladding Systems

1. General

1.1. Cladding shall be specified as part of a rain screen façade system in conjunction with a ventilated cavity and waterproofing membrane fitted to a suitable backing structure

1.2. Cladding material, associated fixtures and backing structure shall be designed to accommodate applied loading in accordance with AS/NZS 1170: Structural design actions (various)

1.3. Anti-lift blocks or trims shall be provided along the top edges to prevent dislodgement from supporting rail under seismic actions

1.4. Fitment sponges shall be installed between the tiled cladding material and support framing immediately prior to the installation of tiles

1.5. Reworking of tiles during installation: -

1.5.1.Dust suppression techniques together with suitable PPE to be utilised when reworking tiles

1.5.2.Contractor to carefully prepare cuts such as to limit exposure to crystalline silica in accordance with Safe Work Australia' standard: Workplace Exposure Standards for Airborne Contaminants

1.6. Rainscreen system shall incorporate profiled trims complete with drainage slots or otherwise approved system drainage methodology

1.7. Vertical alignment between adjacent tile support rails shall be ensured through use of setting-out alignment tools in accordance with system supplier's requirements
2. Materials

2.1. Framing rail and fastener materials shall comply with the corrosivity rating requirements in accordance with AS 4312: Atmospheric corrosivity zones in Australia (2019)

2.2. Any extruded aluminium elements shall be to a minimum aluminium grade of 6063-T5 and produced in accordance with AS 1866: Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes (1997)

2.3. All sheeting materials and associated fixtures shall be non-combustible as determined by AS 1530.1 for safe and compliant construction in accordance with the deemed-to-satisfy (DtS) provisions under the National Construction Code (NCC) 2019 for an external wall application

2.4. Trims

2.4.1.All visible trims shall be specified in conjunction with the architectural specifications

2.4.2.Painted trims shall comply with AS 2312.1: Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings, Part 1: Paint coatings (2014)

2.4.3.Powder coated finishes shall be provided to suit the architectural specification and in accordance with AS 3715: Metal finishing - Thermoset powder coatings for architectural applications of aluminium and aluminium alloys (2002) and the minimum performance requirements of AAMA 2605.

2.5. All fixings shall be stainless steel grade SS304 or SS316 to suit project specific structural and durability performance requirements. Grade 304 to be used for invisible fixings and grade 316 for visible fixings.
3. Fixings

3.1. Concealed fixings shall be adopted throughout U.N.O.

3.2. At external corner junctions, fasteners to substrate material shall be installed in a staggered pattern relative to each face
4. Joints

4.1. Tile jointing shall be specified in accordance with the architectural requirements in conjunction with the manufacturer's standard jointing detailing

4.2. Vertical joints are to be formed as either: -

4.2.1.Separated joint interface complete with proprietary jointing strips, or;

4.2.2.Butt-joint interface between free of jointing material
5. Maintenance

5.1. Cladding tiles are to be washed down using neutral pH cleaning agent following installation before being rinsed down using clean water

5.2. Maintenance strategy shall be prepared in accordance with manufacturer's guidance specific to the nominated product and system components
6. Testing

6.1. Manufacturer shall provide Certificates of Compliance demonstrating adequacy of nominated system in accordance with the following testing standards:

6.1.1.AS/NZS 4284: Testing of building facades (2008)

6.1.2.AS/NZS 4455: Masonry units, pavers, flags and segmental retaining wall units (various)

6.1.3.AS/NZS 4456: Masonry units, segmental pavers and flags - Methods of test (various)

NOTES:

TITLE	MATERIAL SPECIFICATION ENGINEERED CERAMIC	
CLADDING	ENGINEERED CERAMIC CLADDING SYSTEMS	
SUBSTRATE	ALL	Rev
DWG NUMBER	000-AC-GF-DWG-5011	4