

RE: BELGOTEX LUXURY VINYL TILES – ALTERNATIVE SOLUTION COMPLIANCE TO NZBC E3

To whom it may concern,

Please find below Belgotex NZ recommended “alternative solution” information to cover NZBC Clause E3 Internal Moisture where a building consent for new or refurbished work is required and complies with E3 requirements.

Belgotex NZ have been distributing the following LVT ranges between 5-20 years in the New Zealand market, and the products are manufactured in facilities in Europe and China to strict standards and which have been operating between 5 to 50 years. The product can be installed into residential and commercial applications in the following areas – Kitchens, Dining, Laundries, Toilets, and Bathrooms.

For the use of Belgotex Luxury Vinyl Tile (LVT) ranges:

Identity – Express, Aspect & Virtue – Distributor / Manufacturing 30 years

Amtico First – Distributor 20+ Years NZ Market / Manufacturing 50+ years

E3.3.1

An adequate combination of thermal resistance, ventilation, and space temperature must be provided to all habitable spaces, bathrooms, laundries, and other spaces where moisture may be generated or may accumulate.

Please refer to our Installation Guidelines available to download from our website:

[Identity - Express, Aspect & Virtue Installation Recommendations](#)

[Amtico First Installation Recommendations](#)

E3.3.2

Free water from accidental overflow from sanitary fixtures or sanitary appliances must be disposed of in a way that avoid loss of amenity or damage to household units or other property.

The following can be used and is as per the Appendix on page 3.

This is a Building/plumbing design, not flooring, and must be discussed with designers. Amendment allows as part of containment for integrated overflows instead of floor wastes.

Supplement Section

Belgotex recommends Gilt Edge Industries specifications for installation of all Belgotex Luxury Vinyl Tile (LVT) ranges which can be downloaded from www.giltedge.co.nz/systems/specifications

Watersplash – Kitchens, Toilets & Laundries along with Bathrooms

- [Concrete substrates - LVT Overlay on Concrete Floors E3 Kitchen, Toilet & Laundry Watersplash](#)
- [Concrete substrates - LVT Overlay on Concrete Floors E3 Bathroom Watersplash](#)
- [Timber substrates - LVT Overlay on Timber Floors E3 Kitchen, Toilet & Laundry Watersplash](#)
- [Timber substrates - LVT Overlay on Timber Floors E3 Bathroom Watersplash](#)

Containment – Bathrooms

- [Concrete substrate - LVT Overlay on Concrete Floors E3 Containment 12112021](#)
- [Timber substrate - LVT Overlay on Timber Floors E3 Containment 07122021](#)

E3.3.3

Floor surfaces of any space containing sanitary fixtures or sanitary appliances must be impervious and easily cleaned.

Our LVT collections all feature a high-density Urethane Wear layer making them impervious to moisture penetration. This wear layer is extremely easy to clean, has high clarity and comes with excellent impact resistance.

[Express Technical Specifications](#)

[Aspect Technical Specifications](#)

[Virtue Technical Specifications](#)

[Amtico First Technical Specifications](#)

Belgotex LVT ranges have been independently tested to ISO 4760 to assess the moisture resistance of the assembled product. The LVTs and assembled joint did not allow water penetration through to the substrate over a 24-hour period which implies that it is impervious to water. Please refer to the E3 Independent Test Results available to download from our website.

[Express – E3 Independent Test Results](#)

[Aspect – E3 Independent Test Results](#)

[Virtue – E3 Independent Test Results](#)

[Amtico First – E3 Independent Test Results](#)

E3.3.4

Wall surfaces adjacent to sanitary fixtures or sanitary appliances must be impervious and easily cleaned.

Please refer to the Wall provider/Builder/ Construction Company for specific information.

E3.3.5

Surfaces of building elements likely to be splashed or become contaminated during the intended use of the building, must be impervious and easily cleaned.

Please refer to our Care and Maintenance guidelines available to download from our website:

[Identity – Express, Aspect & Virtue Care and Maintenance Guide](#)

[Amtico First Care and Maintenance Guide](#)

E3.3.6

Surfaces of building elements likely to be splashed must be constructed in a way that prevents water splash from penetrating behind linings or into concealed spaces.

All Belgotex Luxury Vinyl Tile (LVT) ranges require that gaps or cracks are eliminated around any parts of the perimeter that are exposed to water splash.

In keeping with clauses E3.3.1 and E3.3.6, all perimeters that are within 1.5m of all or any sanitary fixtures and appliances are to be sealed with a silicone or flexible sealant recommended by Gilt Edge Industries or similar.

Please refer to our Installation Guidelines for details:

[Identity - Express, Aspect & Virtue Installation Recommendations](#)

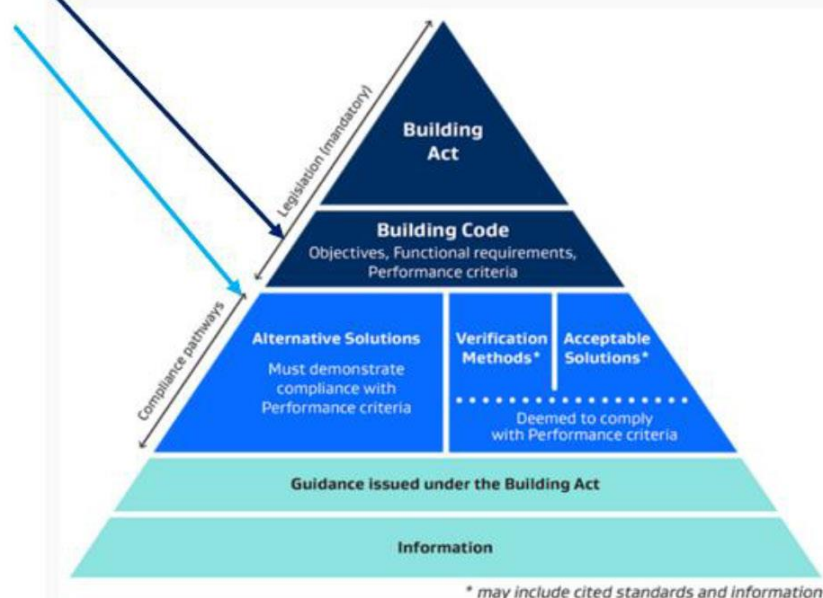
[Amtico First Installation Recommendations](#)

APPENDIX: KEY PROVISIONS FROM NZBC E3 INTERNAL MOISTURE

Wording and clauses of the E3

- Objective
- Functional requirement
- Performance clauses

The Building Code regulatory framework is illustrated in Figure 1, below.



KEY PROVISIONS FROM THE NEW ZEALAND BUILDING CODE - BUILDING REGULATIONS 1992 (VERSION AS AT 15 NOVEMBER 2021) SCHEDULE 1 CLAUSE E3 INTERNAL MOISTURE

OBJECTIVE

E 3.1

- Safeguard people against illness, injury, or loss of *amenity* that could result from the accumulation of internal moisture; and
- Protect household units and other property from damage caused by free water from another household unit in the same building

FUNCTIONAL REQUIREMENT

E3.2 *Buildings* must be constructed to avoid the likely hood of-

- Fungal growth or the accumulation of contaminants on linings and other building elements; and
- Free water overflow penetrating to an adjoining household unit; and
- Damage to building elements being caused by the presence of moisture.

PERFORMANCE

E3.3.2 Freewater from accidental overflow from *sanitary fixtures* or *sanitary appliances* must be disposed of in a way that avoids loss of *amenity* or damage to *household units* or *other property*. This is Building/plumbing design **not** flooring. Discuss with designers. Amendment allows as part of containment for integrated over flows instead of floor wastes.

E3.3.3 Floor surfaces of any space containing *sanitary fixtures* or *sanitary appliances* must be *impervious* and easily cleaned.

E3.3.5 Surfaces of *building elements* likely to be splashed or become contaminated in the course of the *intended use* of the *building*, must be *impervious* and easily cleaned

E3.3.6 Surfaces of *building elements* likely to be splashed must be constructed in a way that prevents water splash from penetrating behind linings or into *concealed spaces*.