Technical Specifications
FRANK Luxury Vinyl Planks & Tiles $Alor^TM$

Product Description
FRANK flooring is a heterogeneous construction luxury vinyl tile and luxury vinyl plank designed for commercial use. FRANK flooring planks and tiles incorporate a pure vinyl wear layer with Alor ($^TM$) aluminum oxide finish for superior scratch and abrasion resistance and ease of maintenance. The wear layer is beveled or square edge as standard.

Sizes
- Wear layer thickness – 0.022” (0.55mm)
- Overall thickness – 0.100” (2.5mm)
- Planks – 4 x 36 “ (101 x 915mm) as standard
- Tiles – 12 x 12” (300 x 300mm) as standard
- Alternative sizes / thicknesses are available as a non-standard option
- 8 and 12 mil wear layers available on special order (square edge only)

Adhesive
We recommend a recognized water based acrylic adhesive that is suitable for the majority of commercial applications. For areas that are exposed to high temperatures (such as direct sunlight), heavy point loadings, and for areas subject to excessive surface moisture, an appropriate epoxy adhesive / two part urethane adhesive is recommended.

Approvals / Relevant Standards
FRANK flooring achieves classification under ASTM F 1700, the standard specification for solid vinyl tile.

<table>
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<tr>
<th>ASTM F 2055</th>
<th>Test to determine squareness:</th>
<th>Passes</th>
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<tr>
<td>ASTM F 2199</td>
<td>Dimensional Stability:</td>
<td>Passes</td>
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<td>ASTM F 137</td>
<td>Flexibility:</td>
<td>Passes</td>
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<tr>
<td>ASTM F 1914</td>
<td>Short term indentation:</td>
<td>Passes</td>
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</table>
ASTM F 1514 - Heat stability of flooring: Passes
ASTM F 1515 - Light stability of flooring: Passes
ASTM F 925 - Chemical resistance: Passes
ASTM C 501 - Taber abrasion: Passes
ASTM D 2047 - Coefficient of friction > 0.6 >0.6
ASTM E 662 - Smoke density < 450 < 450
ASTM E 648 - Critical radiant flux > 0.45 Watts / cm² Class 1
ASTM F 970 - Indentation resistance 750 psi (modified)

Check with Frankfloor and the adhesive manufacturer for recommendations in areas where there is a concern about heavy static loads.

**Installation**

**Care during installation**
Floors can be damaged when not properly protected during the final stages of construction or refurbishment.

If work is ongoing after the installation of the floor use ¼ inch plywood as a protective covering to prevent damage from building debris that is likely to be dropped on and dragged across the floor. Care should also be taken to not damage the flooring, when positioning furniture and equipment within the building.

Concrete subfloors should be prepared according to ASTM F 710, the standard practice for preparing concrete floors to receive resilient flooring.

Concrete subfloors should be tested according to ASTM F 1869 to determine the moisture emission rate from the subfloor. Moisture emission should be no greater than 3 pounds per 1000 square feet per 24 hours. FRANK flooring should not be installed over a subfloor with a moisture emission rate greater than 3 pounds per 1000 square feet per 24 hours, unless a suitable damp proof membrane is used or if the adhesive manufacturer is guaranteeing its’ adhesive performance at moisture emission rates greater than 3 pounds per 1000 square feet per 24 hours.

New construction should incorporate a structural damp proof membrane on or below grade in order to prevent moisture from causing a failure of the installation of FRANK flooring. In refurbishment situations or any situation in which a structural damp proof membrane is not present, an appropriate surface damp proof membrane should be applied in order to prevent moisture from causing failure of the installation. Surface damp proof membranes should be applied according to the manufacturers’ recommendations and by a qualified mechanic. It is important that any surface damp proof membrane be allowed to cure according to the manufacturers’ guidelines prior to the installation of FRANK flooring.

The subfloor should be smooth, hard, clean and dry and all aspects of ASTM F 710 should be followed prior to installing FRANK flooring. FRANK flooring should not be installed over gypsum subfloors, particle board or chipboard subfloors. Any residue
of old adhesive, wax, oil and grease and should be removed as should all dust and other foreign particles. Foreign particles that are not removed, may result in high spots that will negatively affect the life of the flooring in the affected area at the high spot. Alkaline testing should also be carried out in order to ensure a good adhesive bond.

FRANK flooring should be delivered to the jobsite in original boxes (in order to minimize the risk of damage) 48 hours prior to installation commencing, in order for the product to acclimatize to the jobsite temperature and humidity. The HVAC system should be turned on during this period of acclimatization and maintained at the temperature and humidity the interior of the building will be at following completion of the project. During storage and acclimatization, the cartons should be installed flat or on top of each other, but not on their edges.

Installation of the flooring should not commence until all other trades have completed their work. The surface of FRANK flooring should be protected during installation.

In the unlikely event that there are manufacturing defects present in the flooring, product with obvious manufacturing defects should not be installed and a FRANK flooring representative should be notified immediately.

**Maintenance**

For maintenance information, refer to FRANK flooring Maintenance Instructions.