Suggested Applications	Floor Wall Residential Floor Light Commercial Heavy Commercial Fixed Exterior Floor Exterior Floor Floor Residential Fixed Commercial Fixed Commercial Floor
Installation Suggestions	Plank Installation* Joint Size Setting MIN. 1/4" MIN. 1/4" MIN. 1/4" Missall the offset the width of the plank. For professional installation, the use of leveling spacers for all plank and rectangular (ie. 12x24) format tiles is recommended.
Porcelain Type	through-body color-bodied glazed unglazed double-loaded other
Shade Variation	Uniform Appearance Variation V3 Noderate Variation V4 Substantial
Slip Resistance ASTM C-1028 ANSI A137.1 DIN 51097/51130	DCOF Values Applications O.42 Recommended Standard DCOF value for wet/dry commercial flooring A Barefoot, but mainly dry aisles and walkways, dry changing areas 212° O.65 Recommended Standard DCOF value for ADA ramps B Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps B Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF value for ADA ramps Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) 218° O.65 Recommended Standard DCOF v
Scratch Resistance MOH'S SCALE UNI EN ISO 10545.6 ≤175	MINERAL 1. Talc (Talc) 2. Gypsum (Fingernail) 3. Calcite (Penny) 4. Flourite (Some Marbles) 5. Apatite (Knife Blade) Industry standard ≤175mm² 6. Microline (Glass, Glazed Tile) 7. Quartz (Unglazed Porcelain) 8. Topaz (Granite) 9. Corundum (Ruby) 10. Diamond (Diamond) Wear Resistance Resistance PEI RATING UNI EN ISO 10545.7 Class 1: Walls only Class 2: Residential floors w/minimal abrasive traffic Class 3: Residential interiors/light commercial traffic Class 4: Medium commercial applications Class 5: All commercial applications/heavy traffic **Wear can vary greatly. please consult with a professional.**
Stain Resistance ASTM C1378-04 UNI EN ISO 10545.14	5: Removed after 5 minutes (hot water running) 4: Removed by manual cleaning (weak detergent) 3: Removed by mechanical cleaning (strong detergent) 2: Removed by immersion (24 hrs in suitable solvent) 1: Stain not removed ASTM C-373 UNI EN ISO 10545.3 Water Absorbs 05%
Breaking Strength ASTM C648 UNI EN ISO 10545.4 PASS	Facial Dimension ASTM c499-09 UNI EN ISO or 50 N/MM2 Facial Dimension Standard Tolerance Result ±5mm ± ±.5% PASS thickness ±6mm ± ±.5% PASS squareness ±4.5mm ± ±.5% PASS thickness thickness ±4.5mm ± ±.5% PASS thickness ±4.5mm ± ±.5% PASS thickness thickness ±4.5mm ± ±.5% PASS thickness thickness ±4.5mm ± ±.5% PASS thickness thickness thickness ±4.5mm ± ±.5% PASS thickness t
Leed	Sustainable Sites Site selection
Information REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW	Site selection SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29. Energy & Atmosphere EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT Indoor Environmental Quality Low-Emitting Materials-Flooring Systems 1 Point Materials & Resources 1 Point M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials. M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre consumer reps at least 10-20% of total value of materials. M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site.

Innovation in Design

Measurable exemplary environmental performance.

ID CREDIT 1 Innovation in Design

IEQ CREDIT 4.1

IEQ CREDIT 4.3

Low Emitting Adhesives: Products less than 65 G/L VOC

 $Low\ Emitting\ Materials:\ Flooring\ systems.$

Product Line: TIVOLI

1-5 Points