

LEED v4 and v4.1 Credit Analysis: TitanBac® Plus

Credit Category	Credit Name	Documentation to Provide	Available Documentation for Credit Option 1: Disclosure/Reporting	Available Documentation for Credit Option 2: Optimization	LEED v4.1 Contribution	Multiplier
Materials & Resources (MR)	Building Product Disclosure and Optimization — Environmental Product Declarations	Product-specific, Type III EPD: cradle-to-grave scope, ISO 21930 compliant with external third party verification LCA/EPD Optimization Assessment	EPD: Link	LCA/EPD Optimization Assessment: Link	Disclosure: Valued as 1.5 products Optimization: Valued as 2.0 products	Regional materials multiplier not applicable.
Materials & Resources (MR)	Building Product Disclosure and Optimization — Sourcing of Raw Materials	Manufacturer participates in an extended producer responsibility (“Take Back”) program	Flooring Reclamation Program: Link		Point value based on total spend on product. This will be determined at time of submittal	Regional materials multiplier not applicable.
		Recycled Content	25-30% Pre-Consumer and Post-Consumer Recycled Content: Link		Point value based on total spend on product. This will be determined at time of submittal	
Materials & Resources (MR)	Building Product Disclosure and Optimization — Material Ingredients	LEED Compliant HPD to 1000 or 100 ppm	LEED Compliant HPD to 1000 or 100 ppm: Link	N/A	Disclosure: Valued as 1 product	Regional materials multiplier not applicable.
Indoor Environmental Quality (EQ)	Low-Emitting Materials	General Emissions Evaluation: Carpet and Rug Institute Green Label Plus (GLP) Certification for TitanBac® Plus and Commercialon® Adhesive VOC Content Evaluation: Technical data sheet (TDS) for adhesive	TitanBac® Plus (GLP5055) GLP Certification Adhesive (GLP100085) GLP Certification Adhesive Technical Data Sheet (TDS) VOC Content Carpet and Rug Institute’s Green Label Plus (GLP) Certification is tested and compliant to CDPH Standard Method v1.2-2017. CDPH v1.2 Certification Listing		Meets VOC Emissions Evaluation through GLP Certification for TitanBac® Plus and Commercialon® Adhesive Meets VOC Content Evaluation through TDS	N/A



LEED v4 and v4.1 Pilot Credit Analysis: TitanBac® Plus

Credit Category	Credit Name	Documentation to Provide	Credit Pathways	Credit Contribution
Pilot Credit	MRpc112: Certified Multi-attribute Products and Materials	NSF140 Certification	NSF140 Gold Certified	Contributes 75% of the total product cost
Pilot Credit	MRpc132: Procurement of Low Carbon Construction Materials	Third-Party Verified Cradle-to-Grave EPD	Third-Party Verified EPD	N/A
Pilot Credit	MRpc131: Circular Products	Third-Party Verified Cradle-to-Grave EPD or Circularity Report	Designed for Circularity	Valued as 1 product
Pilot Credit	IPpc144: Social Equity Within the Supply Chain	Validated Supplier Assessment	WAP VCCM	N/A
Pilot Credit	MRpc109: Building Material Human Hazard & Exposure Assessment <i>Closed to new LEED project registrations</i>	Validated Exposure Assessment	Exposure Assessment	N/A

LBC 4.1 Imperative Analysis: TitanBac® Plus

LBC Petal Category	Imperative Name	Documentation to Provide	Available Documentation for Imperative Requirements	LBC 4.1 Contribution
Energy	I07 Energy + Carbon Reduction (Core Imperative)	Environmental Product Declaration (EPD)	EPD: Link	I07-4 Embodied Carbon Reduction Documentation I07-5 Embodied Carbon Data All projects must select interior products with a lower than industry average carbon footprint.
Energy	I08 Net Positive Carbon	Environmental Product Declaration (EPD)	EPD: Link	I08-2 Embodied Carbon Threshold Documentation All projects must set a goal to achieve below the ILFI-approved embodied carbon threshold for the upfront embodied carbon of the project (lifecycle stages A1-A5).
Health and Happiness	I10 Healthy Interior Performance	Carpet and Rug Institute Green Label Plus (GLP) Certification for TitanBac® Plus and Commercialon® Premium Adhesive	TitanBac® Plus (GLP5055) GLP Certification Adhesive (GLP100085) GLP Certification Adhesive Technical Data Sheet (TDS) VOC Content Carpet and Rug Institute's Green Label Plus (GLP) Certification is tested and compliant to CDPH Standard Method v1.2-2017. CDPH v1.2 Certification Listing	I10-3 CDPH Compliance Documentation Evaluation GLP Certification for TitanBac® Plus and Commercialon® Adhesive: 90% of interior building products with the potential to emit VOCs must comply with CDPH requirements or International equivalent. VOC Content Evaluation: Commercialon® Premium Adhesive is SCAQMD Rule 1168 Compliant
Materials	I13 Red List	HPD to 100 ppm VOC Content of any wet-applied products	HPD: Link Green Label Plus (GLP) Certification and VOC Content Evaluation for Commercialon® Premium Adhesive: Adhesive (GLP100085) GLP Certification Adhesive Technical Data Sheet (TDS) VOC Content	I13-3 Ingredients List (Product Content Inventory) Documentation HPD: All projects must avoid LBC Red List chemicals in 90% of new project materials by cost. I13-4 VOC Content Documentation Commercialon® Premium Adhesive: GLP Certification, SCAQMD Rule 1168 Compliant
Materials	I15 Living Economy Sourcing	Manufacturing Location of Products: Dalton, Georgia, USA	HPD: Link	I15-2 Supporting Documentation HPD: Contribution based on project site's distance from manufacturing location. This will be determined at time of submittal.

WELLv2 Q3-Q4 2024 Feature Analysis: TitanBac® Plus

WELL Concept Category	Feature Name	Documentation to Provide	Available Documentation for Imperative Requirements	WELL v2 Contribution
Materials	X05 Enhanced Material Restrictions	HPD to 100 ppm	HPD: Link	Part 2: Select Compliant Architectural and Interior Products Flooring products contain 100ppm (0.01%) by weight or less of: halogenated flame retardants (HFRs), per- and polyfluoroalkyl substances (PFAS), and orthophthalates.
Materials	X06 VOC Restrictions	Carpet and Rug Institute Green Label Plus (GLP) Certification for TitanBac® Plus and Commercialon® Adhesive Technical Data Sheet (TDS) for Commercialon® Adhesive	TitanBac® Plus (GLP5055) GLP Certification Adhesive (GLP100085) GLP Certification Adhesive Technical Data Sheet (TDS) VOC Content	Part 1: Limit VOCs from Wet-Applied Products Part 2: Restrict VOC Emissions from Furniture, Architectural and Interior Products Carpet and Rug Institute's Green Label Plus (GLP) Certification is tested and compliant to CDPH Standard Method v1.2-2017. CDPH v1.2 Certification Listing Commercialon® Premium Adhesive is SCAQMD Rule 1168 Compliant
Materials	X07 Materials Transparency	HPD to 100 ppm	HPD: Link	Part 1: Select Products with Disclosed Ingredients Part 2: Select Products with Enhanced Ingredient Disclosure Part 3: Select Products with Third-Party Verified Ingredients HPD to 100 ppm
Innovation	I06 Carbon Disclosure and Reduction	Environmental Product Declaration	EPD: Link	Part 1: Assess Carbon Emissions Part 2: Set Carbon Reduction Goals Part 3: Meet Carbon Reduction Goals Property owner, builder, developer, or management organization has completed a carbon emissions assessment that includes Scope 3 emissions (where building products are part of Purchased Goods and Services), and has set and/or met carbon reduction goals.