

ENVIRONMENTAL PRODUCT DECLARATION

Company Name **Mannington Commercial**

Product Name Integra® HP

Description Flooring – Broadloom Carpet

Product Category Flooring PCR for Carpet, Resilient, Laminate, Ceramic, Wood Version 2
Rule (PCR)

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Material Content

Component	Material	Mass %	Availability			Origin of Raw Materials
			Renewable	Non-Renewable	Recycled	
Nylon Face Fiber	Nylon 6,6 (products: 95%)	21 - 33%		Fossil resource, limited		Global
	Nylon 6 (products: 5%)			Fossil resource, limited		Global
Synthetic Tufting Substrate	Polyester (products: 60%)	5 - 6%		Fossil resource, limited – 15%	Post-consumer, abundant – 85%	Global
	PET / Nylon (products: 40%)			Fossil resource, limited		Global
Polymeric Compound Layer	Polyvinyl Chloride Polymer	61 - 72%		Fossil resource, limited		Global
	DOTP			Fossil resource, limited		Global
	BBCH			Fossil resource, limited		Global
	Calcium Carbonate			Mineral, abundant		Global
	Glass filler					Post-consumer, abundant
Non-woven layer	Polypropylene	1 - 2%		Fossil resource, limited		Global
Modifiers	Various	1 - 2%				Global

Certifications



LCA Stages and Impact Categories

Category	Unit	Sourcing / Extraction	Manufacture	Delivery & Installation	Use	End of Life	Total
 <p>Global Warming A relative measure of greenhouse gasses that when released in the atmosphere can change global weather patterns.</p>	kg CO ₂ -eq.	5.054E+01	1.007E+01	4.718E+00	1.895E+01	5.430E+00	8.971E+01
 <p>Acidification An increase in the acidity of soil and water by the conversion of air pollutants into acids. Damages ecosystems and structures. Forest dieback and crumbling building facades are visible symptoms of the effect.</p>	kg SO ₂ -eq	2.598E-01	8.211E-02	2.870E-02	1.396E-01	2.412E-03	5.126E-01
 <p>Abiotic Depletion Potential The measurement of the gradual depletion of non-renewable non-organic materials.</p>	Kg Sb eq	1.194E-05	2.391E-07	1.971E-07	2.669E-07	1.401E-09	1.265E-05
 <p>Abiotic Depletion Potential – Fossil Fuel The measurement of the gradual depletion of fossil fuels.</p>	MJ	8.144E+02	1.401E+02	9.700E+01	2.254E+02	3.951E+00	1.281E+03
 <p>Ozone Depletion The destruction of ozone in the ozone layer of the stratosphere which shields the earth from ultraviolet radiation that is harmful to life.</p>	kg CFC-11eq	8.614E-07	1.595E-07	5.120E-07	4.455E-07	2.420E-08	2.003E-06
 <p>Photochemical Ozone Creation Ozone high in the atmosphere protects us from ultraviolet (UV) light, but at low levels can damage vegetation and increase asthma and other respiratory complaints.</p>	kg C ₂ H ₄ -eq	1.247E-02	3.455E-03	1.621E-03	5.642E-03	1.435E-03	2.462E-02
 <p>Eutrophication May include increased growth of biomass such as algae in lakes, which reduces the dissolved oxygen levels with a resulting loss of aquatic species.</p>	kg PO ₄ -eq	4.902E-02	1.012E-02	3.531E-03	2.792E-02	2.697E-02	1.176E-01

	<p>Non-Renewable Material Resources</p> <p>The reduction of available non-renewable resources.</p>	kg Sb-eq	1.194E-05	2.391E-07	1.971E-07	2.669E-07	1.401E-09	1.265E-05
	<p>Biomass CO₂ Emissions</p> <p>CO₂ emissions from materials such as virgin wood, energy crops, agricultural residues, food waste and industrial wastes and co-products.</p>	kg	5.461E-01	5.651E-01	1.556E-02	3.746E-01	1.466E+00	2.967E+00
	<p>Energy Demand for Non-renewable Resources</p> <p>The forms of Non-renewable resources required by the energy sector to generate the supply of energy carriers.</p>	MJ	8.960E+02	1.681E+02	1.005E+02	3.086E+02	4.332E+00	1.478E+03
	<p>Primary Energy Demand for Renewable Resources</p> <p>The forms of renewable resources required by the energy sector to generate the supply of energy carriers.</p>	MJ	2.439E+01	1.302E+01	5.970E-01	1.152E+01	5.368E-02	4.958E+01

The functional unit represented in this table has been defined as 1 m² of flooring covering used for a building life of 60 years.

Additional Information

Recycled Content (Post/Pre-Consumer):	6 - 11% total recycled content
Sustainable Certifications:	NSF/ANSI 140: 2013 Gold Certification
	ISO 14001
	EN 14041:2004 CE-Labeling
VOC Emissions Testing:	CRI Green Label Plus Certified