

Ska Rating

The following Ska Rating credit summary for offices, Version 1.2.2013, has been developed to support the design, specification and installation of Armstrong suspended ceiling systems.

Supporting evidence and details of Ska compliant products are contained in the Armstrong Green Building Rating Tool performance tables on page 2 of this document and further details can be downloaded on the [Armstrong website](#).

Category	Good Practice Measure	Category	Ranking 1 = highest 99 = lowest	Armstrong Contribution
Cradle to Cradle	M10	Suspended ceilings	Rank 46	<ul style="list-style-type: none"> Select Armstrong Bronze or Silver Cradle to Cradle certified suspended ceiling products - ULTIMA+ or PERLA.
Environmental Product Declarations	M10	Suspended ceilings	Rank 46	<ul style="list-style-type: none"> Select Armstrong products with third party certified Environmental Product Declarations conforming to ISO 14025.
Recycling	D13	Reduce ceilings sent to landfill	Rank 33	<ul style="list-style-type: none"> At least 100% of the waste ceilings are reused, recycled or diverted from landfill: Use Armstrong off-cut and end-of-life recycling programmes to recycle (upcycle) 100% of waste ceilings into new ceilings.
Recycling	P03 & P04	P03: Reduce construction and demolition (C&D) waste sent to landfill	Rank 39	<ul style="list-style-type: none"> P03: At least 90% of all construction and demolition waste is reused, recycled or diverted from landfill. P04: At least 80% of all C & D waste is reused or recycled: Use Armstrong off-cut and end-of-life recycling programmes to recycle (upcycle) 100% of waste ceilings into new ceilings.
		P04: Increase recycling of C & D waste	Rank 58	
Recycling	D09	Site Waste Management Plan (SWMP)	Rank 67	<ul style="list-style-type: none"> Use Armstrong off-cut and end-of-life recycling programmes to recycle (upcycle) 100% of waste ceilings into new ceilings and meet the requirement that at least 90% of waste produced on site is diverted from landfill. More details on Armstrong website.
Designing out waste	D60	Designing out waste	Rank 9	<ul style="list-style-type: none"> Identify opportunities to design out waste: Specify Armstrong products with minimal waste; e.g. Axiom perimeter trims with full tiles to eliminate off-cuts.
Recycled content	D21	Total recycled materials	Rank 102	<ul style="list-style-type: none"> Recycled content of Armstrong ceiling systems comply with ISO 14021 Type II Self-declared Environmental Claims. Choose low or zero VOC emission ceiling products to state knowledge of IAQ emissions. Armstrong mineral fibre ceiling tiles are 100% recyclable (upcycled) into new ceiling tiles. More details on Armstrong website.
Materials	D19	Materials specification	Rank 104	<ul style="list-style-type: none"> An overarching measure where all materials installed in the fit-out are selected with consideration to their environmental credentials. Armstrong offer an end-of-life and off-cut recycling scheme, products with high recycled content, low VOC emissions, Cradle to Cradle certification and Environmental Product Declarations.
Acoustics	D29	Acoustic design	Rank 50	<ul style="list-style-type: none"> Achieve reverberation time requirements by selecting Armstrong Ceilings which contribute to a reduction in reverberation through adding sound absorption. Select OP ceiling products. More details on Armstrong website.
Lighting	P10	P10: Reduce lighting energy in use D01: Energy efficient lighting D04: Daylighting D30: Lighting design	Rank 1	<ul style="list-style-type: none"> Internal and external lighting levels, zoning and control: Choose Armstrong ceilings with light reflectance greater than 85%. E.g. ULTIMA+.
	D01		Rank 4	
	D04		Rank 69	
	D30		Rank 24	
VOC emissions	D63	Low VOC finishes	Rank 63	<ul style="list-style-type: none"> Choose low or zero VOC emission Armstrong ceiling products classified as M1 (Finnish Indoor Air Quality label) or E1 (Formaldehyde emission levels) as tested and passed in accordance with EN 13964:2004. Contact Armstrong for VOC certificates. Contact Armstrong for VOC certificates.
Thermal comfort	D28	Thermal comfort assessment	Rank 19	<ul style="list-style-type: none"> Armstrong CoolZone phase change material as part of a low-carbon design strategy to enhance thermal comfort by maintaining internal temperature within the comfort zone of 19°C to 24°C. More details on Armstrong website.
Energy and CO₂	D66	Energy modelling	Rank 49	<ul style="list-style-type: none"> Armstrong CoolZone phase change material as an option to reduce energy consumption and as part of a passive design strategy using exposed thermal mass co-ordinated with free night time cooling provided by natural ventilation. More details on Armstrong website.
Operation & Maintenance Manual	D45	Building user guide	Rank 53	<ul style="list-style-type: none"> Include Armstrong installation and maintenance guides and details of the end-of-life recycling programme.











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Armstrong Green Building Rating Tool performance tables

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Certificates and resources can be downloaded on [Armstrong website](#).

	Sustainability					Acoustics				Indoor Air Quality			
													
	Armstrong Recycling Programme	Cradle to Cradle	Environmental Product Declaration EN ISO 14025	Recycled content (%) EN ISO 14021	Light reflectance (%)	α_w	Class	NRC	Attenuation (3) D _{nfw} (dB)	ISO	VOC	Formaldehyde	
LEED Credit	MRp2 / MRc6	MRc4 BD&C MRc5 ID&C	MRc1 BD&C MRc2 ID&C	MRc3 BD&C MRc4 ID&C	EQc6	<----- EQc9 ----->			-	EQc2	-		
BREEAM Credit	Wst1 / Wst4	-	Mat 01	Mat 06	Hea 01	<----- Hea 05 ----->			-	-	Hea 02		
Ska	D13 / P03 / P04 / D09 / D19	M10	M10 / D19 / D21	D21 / D19	P10 / D01 / D04 / D30	<----- D29 ----->			D21 / D19 / D63	D63	D63		
Mineral	ULTIMA+	✓	✓	✓	50	87	≤ 0.75(H)	C	≤ 0.75	≤ 40	ISO 5	A+	E1
	ULTIMA+ dB	✓	✓	✓	64	87	0.60(H)	C	0.65	≤ 43		A+	E1
	ULTIMA+ OP	✓	✓	✓	36	87	1.00	A	0.95	25	ISO 5	A+	E1
	OPTIMA	✓			77	87	≤ 1.00	A	≤ 1.00	24		A	E1
	PERLA	✓		✓	50	86	0.65(H)	C	0.70	35	ISO 5	A+	E1
	PERLA dB	✓		✓	64	86	≤ 0.60(H)	≤ C	≤ 0.65	≤ 43	ISO 5	A+	E1
	PERLA OP 0.95	✓	✓	✓	≤ 52	85	0.95	A	0.90	≤ 27	ISO 5	A+	E1
	PERLA OP 1.00	✓		✓	36	85	1.00	A	0.95	25	ISO 5	A+	E1
	DUNE SUPREME	✓		✓	44	≤ 85	≤ 0.55	C	≤ 0.50	35		A	E1
	DUNE dB	✓			59	84	0.60	C	0.55	39		A	E1
	DUNE MAX	✓			46	84	0.65	C	0.60	35		A	E1
NEVADA	✓			20	82	≤ 1.00	A	≤ 0.95	≤ 27		A	E1	
SIERRA OP	✓			51	84	0.95	A	0.85	≤ 29	ISO 5	A+	E1	
PLAIN	✓			≤ 40	87	0.20(L)	E	0.20	35		A	E1	
Metal	Ultra Microperforated Rg 0501	*	✓	✓	≤ 30	83	0.45(L)	D	0.55	18		A+	E1
	Extra Microperforated Rg 0701 (1)	*	✓	✓	≤ 30	80	0.55(L)	D	0.65	21		A+	E1
	Microperforated Rd 1522 (1)	*	✓	✓	≤ 30	65	0.70	C	0.70	16		A+	E1
	Standard Perforated Rg 2516 (1)	*	✓	✓	≤ 30	70	0.75(L)	C	0.80	18		A+	E1
	Plain (Unperforated)	*	✓	✓	≤ 30	85	0.10(L)	-	0.10	44	ISO 3 / ISO 5 (2)	A+	E1
	Premium B15	*			40	depends on perforation	≤ 0.65	C	≤ 0.60	≤ 47		A	E1
	Premium OP19	*			34		≤ 1.00	A	≤ 0.90	≤ 31		A	E1
Wood	WOOD Veneers				≤ 57	≤ 0.65(L)	≤ C	≤ 0.70	41		≤ A+	E1	
Specific Solutions	BIOGUARD ACOUSTIC	✓	✓	✓	42	85	0.60(H)	C	0.60	36	ISO 5	A+	E1
	BIOGUARD PLAIN	✓			≤ 40	87	0.20(L)	E	0.20	35	ISO 5	A+	E1
	METAL BIOGUARD Extra Microperforation Rg 0701+B15	*			40	80	0.65	C	0.60	40	ISO 5	A	E1
	METAL BIOGUARD PLAIN	*	✓	✓	≤ 30	85	0.10(L)	-	0.10	44	ISO 3 (2)	A+	E1
	PARAFON HYGIEN	✓			20	82	0.95	A	0.95	-	ISO 5	A	E1
	CLEAN ROOM FL	✓			39	78	0.15	E	0.10	36	ISO 5	A	E1
	CERAMAGUARD	-			37	79	0.55(MH)	D	0.60	39		A+	E1
	HYDROBOARD	✓			20	82	0.95	A	0.90	22		A	E1
COOLZONE	*				85	0.25	E	0.20	40		A	E1	
Suspension systems	PRELUDE 15/24/35/SIXTY ²	*			25							A+	E1
	INTERLUDE HRC	*			≤ 63							A+	E1
	SILHOUETTE	*			25							A+	E1
	AXIOM	*			25							A+	E1

(1) Typical values for product with fleece acoustic inlay. For other acoustic solutions, see metal technical pages.

(2) Valid for Q-Clip (ISO 3) and R-Clip F (ISO 5).

(3) Some values will be Dncw. Although superseded by Dnfw, Dncw test results continue to be valid.

* Steel can be easily recycled and processed into new products.

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