

Life Cycle Impact Reduction Action Plan

For LEED version 4.1 credit: Environmental Product Declarations, Option 2 (BD+C and ID+C rating systems)

Company: **Knauf di Knauf S.r.I S.a.s**

Products Included: **Kasa 12,5 mm plasterboards**





Life Cycle Impact Reduction Action Plan Report

Impact information and Reduction Summary

Manufacturer:	Knauf di Knauf S.r.l S.a.s					
Manufacturer Contact Information:	paola.andrisano@knauf.com					
Product Name:	KASA 12,5 mm plasterboard, manufactured by Knauf di Knauf S.r.l. S.a.s.					
Product Type:	Commercial Building Product					
Product Description:	Building product designed for use in the residential sector					
Location where the product was manufactured:	Castellina Marittima (PI), Italy					
Title of the Life Cycle Assessment/ Environmen- tal Product Declaration that the Assessment is Based Upon:	Life Cycle Assessment delle lastre in cartongesso: GKB, GKI, GKF, A-ZERO, F-ZERO, DIAMANT, KASA, FLEXILASTRA Prodotti da: Knauf di Knauf S.r.l. S.a.s. Stabilimento di Castellina Marittima (Pisa), Italia					
Life Cycle Assessment/ Environmental Product Declaration Type:	 Publicly available, critically reviewed LCA (conforming to ISO 14044) Internally verified LCA with a product specific EPD (conforming to ISO 14025, EN 15804, or ISO 21930) Product specific Type III EPD (external verification of LCA and EPD) 					
Link to publicly available LCA or EPD	https://sostenibilita.knauf.it/EPD.aspx					
LCA Framework/PCR	PCR 2012:01 Construction products and construction services, Version 2.3					
Date of LCA or EPD:	EPD 2020/05/06					
Scope:	Product stage Construction process stage Use stage - No impacts End of Life stage					
	⊠ A1 ⊠ A2 ⊠ A3	⊠ A4 ⊠ A5	□ B1 □ B2 □ B3 □ B4	□ B5 □ B6 □ B7	 ☑ C1 ☑ C2 □ C3 - Not applicable ☑ C4 	
	D Module D: Future, r	euse, recycling or energy r	recovery potentials – Not applicable			
Describe how the scope of the product LCA or EPD aligns with actions identified in this Action Plan	The Knauf Group has set important targets in terms of reducing the environmental impacts of all its production activities. The themes on which these goals are identified are: circular economy, reduction of CO ₂ emissions, reduction of chemicals in products, and reduction of water and energy consumption.					
LCA Software and Version:	SIMAPRO 9					
LCA Dataset:	Ecoinvent 3.5 Database					
Action Plan Creation Date:	November 10, 2023					
Action Plan Expiration Date: (must be 4 years or less)	April 22, 2025					
Is this Action Plan applicable to all products listed in the corresponding LCA or EPD, or only a subset?	Yes, 100%. The Action Plan is applicable to all plasterboard thicknesses indicated in the corresponding EPD manufactured by Knauf di Knauf S.r.l. S.a.s. since the Castellina Marittima (PI) facility is our only manufacturing location for this product.					

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Table or Summary of Largest Life Cycle Impacts				2020	2022	2022/2020
identified in the Analysis (must include GWP):				KASA 12,5 mm	KASA 12,5 mm	%
			Product A1-A3	2,58	2,46	
			Transport A4	0,8	0,695	
	Scoz	GLOBAL WARMING KG CO₂ EQ∕DU	Installation A5	0,06	0,597	
			Use (B)	0	0	
			End of cycle (C)	0,13	0,13	
			Tot	3,57	3,34	94%
		NOW RENEWABLE RESOURCES CONSUMPTION MJ/DU	Product A1-A3	38,7	37,3	
			Transport A4	12,06	10,4	
			Installation A5	0,78	0,743	
			Use (B)	0	0	
			End of cycle (C)	2,73	2,66	
			Tot	54,27	51,10	94%
			Product A1-A3	43,08	41,4	
			Transport A4	12,53	10,7	
	ΟΠ	ENERGY	Installation A5	0,87	0,828	
		Consumption MJ/DU	Use (B)	0	0	
			End of cycle (C)	2,83	2,72	
			Tot	59,30	55,65	94%
			Product A1-A3	0,0185	0,0188	
		WATER	Transport A4	0,0025	0,001	
			Installation A5	0,0025	0,000424	
		CONSUMPTION M3/DU	Use (B)	0	0	
		115, 50	End of cycle (C)	0,0021	0,00177	
			Tot	0,0263	0,0220	93%
		WASTE PRODUCTION KG/DU	Product A1-A3	0,17	0,159	
			Transport A4	0,59	0,511	
			Installation A5	0,26	0,261	
			Use (B)	0	0	
			End of cycle (C)	10,85	10,9	
			Tot	11,87	11,83	100%
	KASA 12,5 mm p					
	 A1_Fornitura n A3_Produzione A5_Installazion 	a stand st Stand stand s	5 mm = A2_ = A4_ = C1_	All and a second	ASA 12.5 mm	
		so_KASA 12.5 mm 5 by life cycle stages re	ferred to 1 m² of k	(ASA 12,5 mm plaste	rboard.	



Narrative Description of the Impact Areas Tar- geted for Reduction (must include specific steps, dates, and timeline for completion, and include why/why not GWP is targeted for reduction and include a numeric impact reduction target. Actions must correspond to impact modules analyzed in the LCA or EPD):						
	GOALS	KPI				
	CO ₂ Emission (Scope 1&2)	50% reduction by 2032				
	CO ₂ Emission (Scope 3)	30% reduction by 2032				
	CO ₂ Emission (Scope 1, 2 & 3)	Net zero by 2045				
	Circular Economy	Promoting the circular economy in all plants				
	Chemicals of concern	Zero products containing chemicals by 2032				
	Waste	Zero waste sent to landfill by 2032				
	Water	2% annual reduction in water resource consumption]			
This Action Plan was prepared by: (must be prepared by someone with experience conducting product-specific LCAs)	Marharyta Litvinava - Sustainability Specialist					
This Action Plan was confirmed by an executive of the manufacturer:	Paola Andrisano - Sustainability Manager					



KNAUF di Knauf S.r.l. s.a.s.

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La documentazione e/o il parere tecnico forniti non costituiscono in nessun caso una proposta contrattuale, ne' un'attestazione di conformità di prodotti rispetto ad eventuali richieste ricevute, ma solo una indicazione circa uno o più determinati prodotti/sistemi che il destinatario dovrà verificare e valutare alla luce della propria esigenza progettuale specifica.

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