



PRODUCT ENVIRONMENTAL FOOTPRINT SUMMARY

METAL BUILDING INSULATION (MBI)






FOR BUILDING APPLICATIONS

Owens Corning® Metal Building Insulation (MBI) products are light-density fibrous glass blankets with excellent recovery, designed to be laminated with appropriate facings for use in metal building roofs and walls.

Declared/Functional Unit

1 m² of installed insulation material at R_{SI}=1

Results below represent an R-value of 1 in accordance with the standard unit reported in the Environmental Product Declaration (EPD).

						
	Global Warming Potential Embodied Carbon	Ozone Depletion Potential	Smog Formation Potential	Acidification Potential	Eutrophication Potential	Depletion of Abiotic Resources (Fossil Fuels)
	kg CO ₂ eq.	kg CFC 11 eq.	kg O ₃ eq.	kg SO ₂ eq.	kg N eq.	MJ
Metal Building Insulation (MBI) Unfaced – Mexico City*						
A1- A3	1.18	7.88 x 10 ⁻⁸	0.054	0.0025	0.00030	11.3
Total A1-A5, C1-C4	1.44	8.09 x 10 ⁻⁸	0.056	0.0026	0.00086	11.4
Metal Building Insulation (MBI) with Polypropylene Reinforced Facing – Mexico City						
A1- A3	1.38	1.00 x 10 ⁻⁷	0.070	0.0035	0.00047	13.8
Total A1-A5, C1-C4	1.64	1.03 x 10 ⁻⁷	0.071	0.0036	0.00103	16.4
Metal Building Insulation (MBI) with Polypropylene Reinforced Facing – Mexicali						
A1- A3	1.54	1.27 x 10 ⁻⁷	0.082	0.0041	0.00058	15.4
Total A1-A5, C1-C4	1.82	1.31 x 10 ⁻⁷	0.084	0.0042	0.00114	18.2
Metal Building Insulation (MBI) with Polypropylene Reinforced Facing – Monterrey						
A1- A3	1.62	1.39 x 10 ⁻⁷	0.078	0.0041	0.00065	16.2
Total A1-A5, C1-C4	1.89	1.42 x 10 ⁻⁷	0.079	0.042	0.00121	18.9

*All unfaced MBI is manufactured at the Owens Corning Mexico City Plant. Polypropylene reinforced facing is applied at the Owens Corning Mexico City, Mexicali, and Monterrey plants.

Reference Service Life	75 years
Validity Period	12/01/2022 – 11/30/2027
Data Verification	<ul style="list-style-type: none"> ✓ 3rd Party reviewed Life Cycle Assessment (LCA) ✓ 3rd party verified Environmental Product Declaration (EPD)
LCA Software	SimaPro 9.4
LCIA Methodology	TRACI 2.1 v1.05; CML I-A baseline v4.7; IPCC (2013, 2021)
LCI Database	ecoinvent 3.8
Manufacturing Location(s)	Mexico City, Mexico (Facings applied in Mexico City, Mexicali, and Monterrey)

For the full EPD, visit <https://www.owenscorning.com/dms/10025820>

For additional product information, visit <https://owenscorning.com.mx>

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