

Emission limits for concrete production

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In future, SBB Infrastructure will impose requirements on the emission intensity of concrete production. This document contains the current reference emissions for the coming years. SBB reserves the right to adjust the reference values in line with current market developments. The applicable values for specific tenders can be found in the project tender documents.

Basis for reference emissions:

The reference emissions are based on the average EPDs of the Swiss Construction Recycling Association. Missing data (lean concrete, shotcrete) has been supplemented in accordance with SBB expertise. All values are only valid for calculations using the [life cycle assessment calculator](#) of the Swiss Construction Recycling Association.

Assumptions for reduction path:

For building construction and lean concrete, a reduction of 15% is expected by 2030 based on the new ND annex, and for other types of concrete, a reduction of 6% is expected according to the Cemsuisse roadmap.

Concrete type	kg CO ₂ eq / m ³ fresh concrete						
	Reference	2025	2026	2027	2028	2029	2030
Lean concrete 150	90	86	81	77	72	68	63
Lean concrete 200	117	111	105	99	94	88	82
Lean concrete 250	145	138	131	123	116	109	102
NPK A	171	167	162	158	154	150	145
NPK B	175	171	166	162	158	153	149
NPK C	188	183	179	174	169	165	160
NPK D	188	185	183	180	178	175	173
NPK E	192	189	187	184	182	179	177
NPK F	205	202	200	197	194	191	189
NPK G	196	193	191	188	186	183	180
NPK H	202	199	197	194	191	189	186
NPK I	220	217	214	211	208	205	202
Shotcrete	235	232	229	226	222	219	216