



STEEL.DAY

Greater circularity for steel structures and products.

Circular Structure Certificate of the ZINQ Production Hall, Pelt

Nolimpark 2218 | Haltstraat 47, B-3900 Pelt

Low carbon ecoZINQ®-galvanized XCarb® Recycled and
Renewably Produced Steel for circular construction



~110 t CO₂ eq
Life cycle emissions
for the galvanized
steel structure



≥ 50 yrs
Assumed building use
technical coating life
estimated beyond build-
ing lifetime



3 routes
For end of life (EoL)
disassemble, refurbish,
recycle

in accordance with EN 10025 and EN ISO 1461.

At a glance

The production hall of ZINQ in Pelt is used for our additional services related to ZINQ 360. It is an open hall made of hot-dip galvanized steel. The zinc coating protects the steel from weathering and thus from corrosion. To reduce the environmental impact, low carbon ecoZINQ® and XCarb® Recycled and Renewably Produced Steel are used.

Materials		Masses in t	Material ratio
Steel (ArcelorMittal)	XCarb®	82	52.9 %
	Standard Electric Arc Furnace (EAF) Steel	68	43.9 %
Zinc (ZINQ)	ecoZINQ®	5	3.2 %
Totals		155	100 %

Circularity Contribution

- **Built for long service life:** The robust galvanizing is expected to provide maintenance-free corrosion protection during the assumed 50-year building use.
- **Prepared for extended cycles:** If needed, the zinc coating can be repaired according to EN ISO 1461. Alternatively, the coating can be removed via ReZINQ and the steel can be re-galvanized.
- **Designed for disassembly:** The beams are installed so that they can be dismantled without destroying the steel components, enabling direct reuse where technically feasible.
- **Recyclable by design:** At end of life, the steel can be recycled in an EAF route; zinc can be recovered from EAF dust and returned to zinc production.

Sustainability indicators

	Parameter	Unit	Project totals
Environmental Impact	Global warming potential (GWP) -total	t CO ₂ eq	109.85
	Carbonization	t CO ₂ eq	0.04
	Share of renew. electricity used in production	%	56
	Water deprivation potential (WDP)	m ³ world eq deprived	14,623.91
	Material health	RoHS no crit. substances	✓
Circularity	Recycled content	%	97-98
	Design for Disassembly	All materials can be disassembled	✓
	Refurbishable	All materials can be reused	✓
	Recyclability	All materials can be recycled at EoL	✓

Detailed information
available upon
request.

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