

CISC Steel Global Warming Potential - Full Cradle to Grave Summary A to D

The full life cycle environmental Global Warming Potential impacts of 1 metric ton and 1 short ton for the 5 CISC steel product EPDs based on life cycle impact assessment method TRACI 2.1 and LCA results. The totals include a full cradle to grave (A1-A3, C1-C4 and D1) assessment.

Fabricated Hot-rolled Structural Steel Sections

Impact categories		A-D Total
Global warming (kg CO ₂ eq.)	1 mt	1.20E+03
	1 ton	1.09E+03

Fabricated Steel Plate

Impact categories		A-D Total
Global warming (kg CO ₂ eq.)	1 mt	1.50E+03
	1 ton	1.36E+03

Fabricated Hollow Structural Sections

Impact categories		A-D Total
Global warming (kg CO ₂ eq.)	1 mt	1.07E+03
	1 ton	0.97E+03

A1 = raw material supply (raw material extraction and processing, production of galvanized coils, etc.), A2 = transport of raw materials (transportation from suppliers of steel to manufacturing facilities), A3 = manufacturing (roll forming) C1 = building deconstruction, C2 = transportation to scrap processing, C3 = scrap processing, C4 = waste disposal, D = end of life recycling credit.

Cold Formed Steel Panels

Impact categories		A-D Total
Global warming (kg CO ₂ eq.)	1 mt	0.95E+03
	1 ton	0.86E+03

Cold Formed Steel Sections

Impact categories		A-D Total
Global warming (kg CO ₂ eq.)	1 mt	0.82E+03
	1 ton	0.74E+03

A1 = raw material supply (raw material extraction and processing, production of galvanized coils, etc.), A2 = transport of raw materials (transportation from suppliers of steel to manufacturing facilities), A3 = manufacturing (roll forming) C1 = building deconstruction, C2 = transportation to scrap processing, C3 = scrap processing, C4 = waste disposal, D = end of life recycling credit.