



CSC-Certified Concrete: Advancing Responsibly Sourced Materials for Sustainable Buildings

Concrete Sustainability Council- Concrete Innovations July 16th 2025

Why is the CSC important?



Concrete is the most widely used construction material and is the second most used material after water, because of its versatility and durability.

Materials' consumption in a typical building:

- **Concrete: 70-80% by mass**

The responsible sourcing of its constituents as well as the sustainable manufacturing are pivotal matters to the construction sector.

Concrete has a major role to play to enable the development of sustainable and resilient buildings and communities around the world.



The Concrete Sustainability Council is ...

- ... the first & only established certification system for concrete
- ... founded in November 2016
- ... 'FSC for concrete'
- ... advocating for responsibly sourced concrete ... as the construction material of choice
- ... Third party verified

Regional System Operators & Sector Associations

- GCCA
- Concrete Europe
- FIHP (LatAm)
- Fedbeton (Belgium)
- BTB (Germany)
- Federebeton (Italy)
- Betonhuis (The Netherlands)
- THBB (Turkey)
- GVTB (Austria)
- Grey Matters (MENA)

Industry

- Dyckerhoff
- CRH
- Heidelberg Materials
- Holcim
- Titan

Certifiers

- Applus (ES, LatAm)
- NSF (USA)
- ICMQ, ASACERT (IT)
- KGS (TR)
- Kiwa (DE, NL, BE, LX)
- SGS (CH)
- SKG-IKOB (NL)
- KCL (Korea)
- BPS (Austria)
- VDZ, BAU-ZERT, G-CERT, SIC-ZERT, Füz Süd, PÜZ BAU, TÜV Rheinland (DE)

Sponsors

- Güteschutz Beton
- KTI
- Green Fair Consulting
- Climate Earth

The CSC is pushing the concrete sector towards further improving its sustainability practices.



GCCA Picture competition 2024, left to right: Edwin Loyola, WTC NY,- Renato Fontanari Thomson, Biscayne Boulevard- Wentao Guo, American Museum of Natural history

What is CSC's mission?



CSC enables the concrete industry and its main suppliers – i.e. cement and aggregate industry – to communicate and demonstrate the responsible sourcing credentials of its products



Promote Sustainability

The CSC aims to advance sustainability in the concrete industry by promoting economically, environmentally, socially, and responsibly managed practices.



Credibility and Influence

It provides a certification system to showcase the sustainability performance of concrete and its value chain transparently. CSC is independent and the certification process review is performed by independent certification bodies. CSC promotes knowledge sharing, outreach and awareness rising



Support Global Goals

The CSC aligns its mission with the U.N. SDGs, contributing to global efforts for a sustainable future. Responsibly sourced concrete supports sustainable development by ensuring ethical practices, reducing environmental impacts, and contributing to resilient, long-lasting structures.



Drive Industry Change:

By fostering collaboration among stakeholders, the CSC helps the concrete sector improve sustainability standards worldwide. CSC is supported by competent and strong partners around the world, namely industry associations, certification bodies, concrete, cement and aggregates producers.

What makes CSC concrete more sustainable?



Supporting SDG 15: Extraction activities managed under an Environmental Management System/Biodiversity management / action plan for cement and aggregates operations



Supporting SDG 14: Appropriate measures to process returned concrete



**Supporting SDG 13: Policy/commitment to measure and reduce CO₂ emissions (cement)
Public commitment to CO₂ reduction and GHG monitoring & reporting**



Supporting SDG 12: Use of responsibly sourced cement and aggregates

Supporting SDG 11: Protection against contamination



Supporting SDG 10: Operations comply with the Universal Declaration of Human Rights and acknowledge indigenous peoples' rights



Supporting SDG 16: Framework for ethical and legal compliance



**Supporting SDG 3: OH&S policy available to every employee and the public
Access to medical treatment and clean drinking water**



**Supporting SDG 6: Water scarcity assessment for the plant area
Water consumption monitored and reported**



**Supporting SDG 7: Awareness creation for energy saving among workers
Transport management system**



**Supporting SDG 8: Safety procedures in place
OH&S risk analysis and a monitoring of all incidents in place**



Supporting SDG 9: Material from traceable sources



Exchange with our key-stakeholders ...



... their valuable feedback is our opportunity to make it better



Switzerland, Gland 2016

Civil society

IUCN/ WBCSD /Bellona/
World resources forum/
Fauna and Flora/ BSHR

Industry association

BTB/FEDBETON/ERMC
O/GCCA/THBB

Enterprises

Buzzi Unicem/
Heidelberg Materials/
Holcim

Green Building Councils

DGNB/ GBCI Europe/

Academia

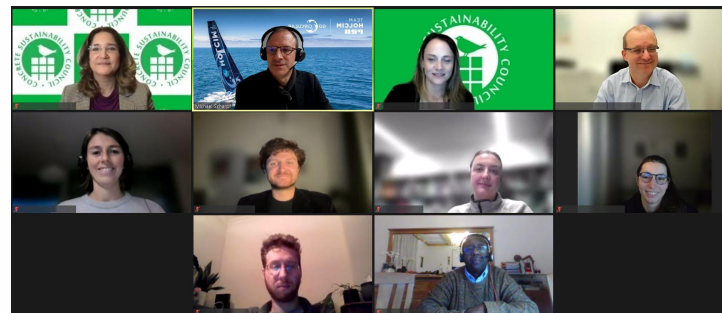
ETH Zürich/ MIT/
OST-ostschweizer
Fachhochschule/



The Netherlands, Amsterdam 2018



Online 2020



Online November 2023

...and growing recognition in Green Building Labels



CSC's recognition by green building labels enhances the value of certified concrete in sustainable construction. It ensures alignment with global standards, promoting transparency and credibility in the concrete industry sustainability efforts



LEED, United States
Recognition in "Social equity within the supply chain" pilot credit

First time ever for non-wood material labels to be recognized



BREEAM | UK, Europe
Recognition in the "Responsible sourcing of construction products" credit

Platinum at "score level 7" (same level as FSC 100% wood)



Envision | North America, World
Recognition in the "Support Sustainable Procurement Practices" credit

Recognized by the Institute for Sustainable Infrastructure (ISI) for contributing to requirements on credit RA1.1



DGNB, Germany and many countries
Recognition in the "Responsible sourcing" credit

Silver, Gold at QL 1.2 and Platinum at level 1.3 (same as FSC-Mix wood) R-module recognition at QL 2.2



ÖGNI | Austria, Europe
Recognition in the "Responsible sourcing" credit

Silver, Gold and Platinum at QL 1.2 (same as FSC-Mix wood) R-module recognition at QL 2.2



B.E.S.T | Turkey
Recognition in the "Ecological and Sustainable Design"

Recognized for contributing to requirements on residential certification



CASA Guatemala, LATAM
Recognition in the "Materials" category

Bronze, Silver, Gold and Platinum

Ongoing conversations for recognition in “Responsible sourcing of raw materials credit”

- Pilot Credit “Social Equity in the Supply Chain”
- First time ever for non-wood material labels to be recognized by LEED
- Fact sheet geared to coach LEED APs on how to score points with CSC certified concrete in LEED
- LEED v5
Next level of recognition in a Project Priority credit



SOCIAL EQUITY WITHIN THE SUPPLY CHAIN LEED PILOT CREDIT

Easily Achieve Innovation Credit
Pioneering Supply Chain Certification

Overview of Social Equity within the Supply Chain Pilot Credit

Learn more about the Social Equity within the Supply Chain Pilot Credit.

Identifying CSC Certified Products

Concrete Sustainability Council Certification (v2.0 and above) is pre-approved by USGBC to meet the 8 ILO based on the Human Rights Prerequisite.

Products or suppliers who have achieved CSC Certification can be identified through a CSC Certificate or a CSC Supplier Certificate logo. Find CSC Certified Projects.

- Certification system covers concrete. Four levels: Bronze, Silver, Gold, Platinum
- All levels of certification for concrete meet the pilot credit requirements.

In addition to CSC Certification, USGBC has pre-approved standards such as the Aluminum Stewardship Initiative Chain of Custody Standard, the ResponsibleSteel Certification, the Forest Stewardship Certification CoC, and more.

Learn more about the pre-approved standards.

Submitting Credit Documentation to USGBC

CSC Certification has a Human Rights Prerequisite (P2.01) for all products and certification levels. The table below highlights the comparison between CSC Prerequisites and LEED Requirements:

Universal Declaration of Human Rights	CSC Prerequisite	LEED Requirement
Human Rights Risk Situations	✓	
Avoidance of Complicity	✓	
Resolving Grievances	✓	✓
Discrimination, Vulnerable Groups and Equal Opportunity for Women and Men in the World of Work (ILO Convention, 111)	✓	
Civil and Political Rights	✓	
Fundamental Principles and Rights at Work (ILO Convention 87, 98, Appendix D)	✓	✓
Child Labor (ILO Convention 138 and 182)	✓	✓
Forced Labor (ILO Convention 29, 105, 203)	✓	✓

1 Determine if the project is eligible for the Social Equity Pilot Credit (Ppcc144) by using the Pilot Credit Fact Sheet on the United States Green Building Council (USGBC) website. ID, project name, the LEED project type, and the version. If the project appears under "Open Pilot Credits."

2 If eligible, register for the credit by selecting the project name, then scroll down and click submit. Save the registration confirmation email and the survey completion email.

3 Obtain evidence from the supplier verifying LEED v5. USGBC requires documentation providing proof of compliance with the pilot credit. Complete the pilot credit survey, which is found in the survey completion email. Pilot Credit Survey Link

4 Submit the documentation to USGBC through the LEED Online. In the credits tab, open the "Form [001]" and select the number of applicable pilot credits. Name "Ppcc144: Social Equity within the Supply Chain" and save. Innovation credit, click "Uploads." Click "Add File" to submit the documentation.

Learn more about the Social Equity within the Supply Chain Pilot Credit.

To learn more, visit the Concrete Sustainability Council Website or send an email to: info@concretesustainabilitycouncil.com

NRMCA BUILD WITH INTENSITY

ENVISION recognition



Recognized for contributing to requirements on credit RA1.1 (Support Sustainable Procurement Practices). Ongoing conversation for recognition on RA1.2 (Used Recycled Materials) with the R-module and in CR1.2 (Reduce Greenhouse Gas Emissions) with the CO2-module.

1 Is the project constructed from sustainable materials?

2 Does the project maximize construction and operational water use?

3 Does the project reduce energy consumption and source renewable energy?

4 Does the project reduce water consumption and protect water resources?

5 Does the project monitor energy and water use?

MATERIALS

Minimizing the total impact of material use should be a primary consideration for infrastructure projects. This begins with sourcing more sustainably manufactured materials, using recycled materials, and reducing waste. Always source sustainable materials that must be sourced with safety, stability, and durability. The life cycle of a project and its materials should always be considered, where materials have come from and what waste is created. These factors help to minimize the total amount of natural resources consumed.

ENERGY

Energy from nonrenewable fossil fuels is finite. Therefore, use of renewable energy is encouraged as a means to minimize fossil fuel consumption. Reducing energy use and meeting the remaining energy needs through renewable sources and energy efficiency. Commissioning and monitoring energy systems is critical to ensure project function as planned and maintain the intended level of efficiency throughout the life of the project.

for buildings. While this credit is linked to CR1.1 Reduce Net Embodied Carbon, it expands beyond the impacts of per unit material production to include the environmental impacts of the entire manufacturing process.

Supplier integrity and ethical behavior are important considerations. Establishing policies for the procurement of sustainably manufactured products and materials helps safeguard the reputation and achievements of the project, and all organizations involved, from the possibility of future disclosures that project materials were produced in unsafe or environmentally damaging conditions.

EVALUATION CRITERIA AND DOCUMENTATION GUIDANCE

A. Has the project team implemented a sustainable procurement policy or program?

1. Documentation of a sustainable procurement policy that includes commitments to identify and select manufacturers and/or suppliers that implement sustainable practices. Program documentation includes a well-defined process for selecting suppliers and/or manufacturers of materials, supplies, and equipment, including selection criteria focused on environmental practices and social responsibility. Examples of qualifying requirements include but are not limited to:

sustainable procurement policy/program requirements on social and environmental impacts.

Documentation of the total weight, volume, or cost of materials.

An inventory for all materials being tracked for sustainable procurement practices, including a description of the manufacturer or supplier of the material, along with evidence of the disclosure requirements.

Documentation indicating the sustainable procurement requirements were met.

RELATED ENVISION CREDITS

CR1.1 Advance Equity and Social Justice
CR1.2 Use Recycled Materials
CR1.3 Reduce Net Embodied Carbon

ENVISION POINTS TABLE

	Improved	Enhanced	Superior	Conserving	Restorative	Maximum Points
Wellbeing						200
W1.1 Improve Community Quality of Life	2	5	10	20	20	
W1.2 Enhance Public Health and Safety	2	5	10	14	14	
W1.3 Improve Construction Safety	1	3	6	10	12	
W1.4 Minimize Noise and Vibration	1	2	4	8	14	
W1.5 Minimize Light Pollution	1	2	7	12	16	
W1.6 Minimize Construction Impacts	1	2	8	14	18	
W2.1 Increase Community Mobility	—	5	9	14	18	
W2.2 Increase Sustainable Transportation	1	5	10	14	18	
W2.3 Improve Access & Wayfinding	3	6	7	11	14	
W2.4 Advance Equity & Social Justice	—	3	7	11	14	
W3.1 Preserve Historic & Cultural Resources	1	3	7	18	—	
W3.2 Preserve Historic & Cultural Character	2	5	12	18	18	
W3.3 Enhance Public Space & Amenities	2	5	12	14	18	
W3.4 Enhance Public Space & Amenities	3	6	9	14	18	
W4.1 Provide Effective Leadership & Commitment	3	6	12	18	—	
W4.2 Foster Collaboration & Teamwork	3	7	12	12	—	
W4.3 Provide for Stakeholder Involvement	3	7	12	12	—	
W4.4 Pursue Sustainable Synergies	4	6	8	12	—	
W4.5 Establish a Sustainability Management Plan	2	5	8	20	—	
W4.6 Plan for Long-Term Monitoring & Maintenance	2	5	8	12	18	
W4.7 Plan for End-of-Life	3	6	8	12	—	
W4.8 Simulate Economic Prosperity & Development	5	7	9	12	—	
W4.9 Simulate Local Social & Capabilities	3	6	9	14	—	
W4.10 Conduct a Life-Cycle Economic Evaluation	4	7	10	16	—	
W4.11 Support Sustainable Procurement Practices	4	7	10	16	—	
Community						182
W4.12 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.13 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.14 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.15 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.16 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.17 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.18 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.19 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.20 Support Sustainable Procurement Practices	4	7	10	16	—	
Collaboration						196
W4.21 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.22 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.23 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.24 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.25 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.26 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.27 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.28 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.29 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.30 Support Sustainable Procurement Practices	4	7	10	16	—	
Planning						232
W4.31 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.32 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.33 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.34 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.35 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.36 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.37 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.38 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.39 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.40 Support Sustainable Procurement Practices	4	7	10	16	—	
Economy						232
W4.41 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.42 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.43 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.44 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.45 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.46 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.47 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.48 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.49 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.50 Support Sustainable Procurement Practices	4	7	10	16	—	
Materials						232
W4.51 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.52 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.53 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.54 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.55 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.56 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.57 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.58 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.59 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.60 Support Sustainable Procurement Practices	4	7	10	16	—	
Energy						232
W4.61 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.62 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.63 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.64 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.65 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.66 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.67 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.68 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.69 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.70 Support Sustainable Procurement Practices	4	7	10	16	—	
Water						232
W4.71 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.72 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.73 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.74 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.75 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.76 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.77 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.78 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.79 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.80 Support Sustainable Procurement Practices	4	7	10	16	—	
Siting						232
W4.81 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.82 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.83 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.84 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.85 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.86 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.87 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.88 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.89 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.90 Support Sustainable Procurement Practices	4	7	10	16	—	
Conservation						232
W4.91 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.92 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.93 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.94 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.95 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.96 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.97 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.98 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.99 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.100 Support Sustainable Procurement Practices	4	7	10	16	—	
Ecology						232
W4.101 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.102 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.103 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.104 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.105 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.106 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.107 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.108 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.109 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.110 Support Sustainable Procurement Practices	4	7	10	16	—	
Emissions						232
W4.111 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.112 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.113 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.114 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.115 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.116 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.117 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.118 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.119 Support Sustainable Procurement Practices	4	7	10	16	—	
W4.120 Support Sustainable Procurement Practices	4	7	10	16	—	

BREEAM recognition



Platinum at "score level 7" (same level as FSC 100% wood)

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Summarising RSCS evaluations for use
– Concrete Sustainability Council v2.1

June 2021
Issue 1

Table 1: BREEAM recognised RSCS, EMS, and their associated summary scores levels

RSCS/EMS (or other recognised source)	Labels/Version(s) of the scheme	Additional requirement to be specified*	RSCS summary score level
Aluminium Stewardship Initiative (ASI)	'ASI Certified Performance', with 'ASI Certified Chain of Custody' (Note: Provisional certification is not applicable)	The aluminium shall originate from a cashouse that is a certified ASI Member and/or a subsequent supplier of this aluminium that is a certified ASI Member (listed here: https://aluminiumstewardship.org/asi-certification/asi-certified-members/)	5 (Baseline score ³)

BES 6001 Framework Standard for Responsible Sourcing

All (Issue 3)	n/a	The following have been achieved/scored: 4.3.1.3 (two points for 4.3.1)	7
All (Issue 4)		Plus one or more of the following: 4.3.2.4 (three points for 4.3.2), 4.2.4.4, or 4.4.9.2 (at least one point for 4.4.9)	5

CARES Sustainable Construction Steel Scheme

All	Certified concrete (bronze level)	n/a	4
	Certified concrete (silver level)	n/a	5
	Certified concrete (gold level)	n/a	6
	Certified concrete (platinum level)	n/a	7

Eco Reinforcement Responsible Sourcing Standard, Steel Products for the Reinforcement of Concrete

All	FSC 100%*	n/a	5
	FSC Mix*	n/a	
	FSC Recycled*	n/a	
	PEFC Certified - 100% PEFC Origin*	n/a	

PEFC

Table for converting individual criteria scores to a RSCS summary score level for use in BREEAM
Table 2 is used to convert individual criteria scores to an RSCS summary score level. See Figure 1 below for guidance on interpreting Table 2.
Table 2 - Conversion of individual criteria scores to a single RSCS summary score level for use in BREEAM assessments

Product/material type		Minimum criteria scores per responsible sourcing certification scheme (RSCS) BREEAM score level (1 to 9)									
Responsible sourcing schemes: Criteria*		Potential	1	2	3	4	5	6	7	8	9
A1 Standard setting	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
A2 Performance target setting	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
A3 Accreditation bodies	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
A4 Audit results & transparency	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
B1 Scope of assessment	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
B2 Traced and untraced sources	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
B4 Control of claims	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
C1 H Biodiversity	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
C1 L Eco toxicity	See note 1	0.1 or 2	1	1	1	1	1	1	1	1	1
C1 M Safe and healthy working conditions	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 N Slave labour	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 O Child labour	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 P Freedom to join trade unions	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 R Equality in respect of gender, ethnicity, religion, political persuasion	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 S Corruption	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 T Sustainability and recycled content	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 U Carbon footprint	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 V Air quality or extraction impacts	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 W Water emissions	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 X Waste	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 Y Noise	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 Z Environmental impact	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AA Human rights	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AB Executions	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AC Chemicals	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AD Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AE Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AF Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AG Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AH Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AI Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AJ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AK Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AL Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AM Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AN Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AO Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AP Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AQ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AR Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AS Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AT Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AU Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AV Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AW Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AX Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AY Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 AZ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BA Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BB Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BC Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BD Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BE Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BF Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BG Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BH Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BI Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BJ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BK Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BL Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BM Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BN Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BO Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BP Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BQ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BR Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BS Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BT Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BU Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BV Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BW Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BX Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BY Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 BZ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CA Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CB Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CC Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CD Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CE Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CF Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CG Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CH Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CI Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CJ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CK Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CL Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CM Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CN Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CO Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CP Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CQ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CR Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CS Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CT Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CU Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CV Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CW Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CX Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CY Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 CZ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DA Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DB Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DC Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DD Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DE Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DF Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DG Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DH Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DI Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DJ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DK Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DL Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DM Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DN Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DO Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DP Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DQ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
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C1 DS Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DT Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DU Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DV Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DW Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DX Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DY Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 DZ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EA Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EB Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EC Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 ED Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EE Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EF Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EG Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EH Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EI Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EJ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EK Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EL Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EM Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EN Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EO Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EP Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 EQ Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 ER Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C1 ES Safety	See note 1	See note 1	1	1	1	1	1	1	1	1	1
C											

CSC credibly defines and differentiates sustainable concrete...



25

**Countries
in 4 continents**



30

Members

770⁺

Producers



2300⁺

Assessments



1430⁺

**Active certificates
as of June 2025**



**Committed to
responsibly sourced
concrete
... 'FSC for concrete'**



Founded in November 2016

9

Years of continuous growth



4

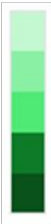
**Levels with
2 modules**

Global Roll-out

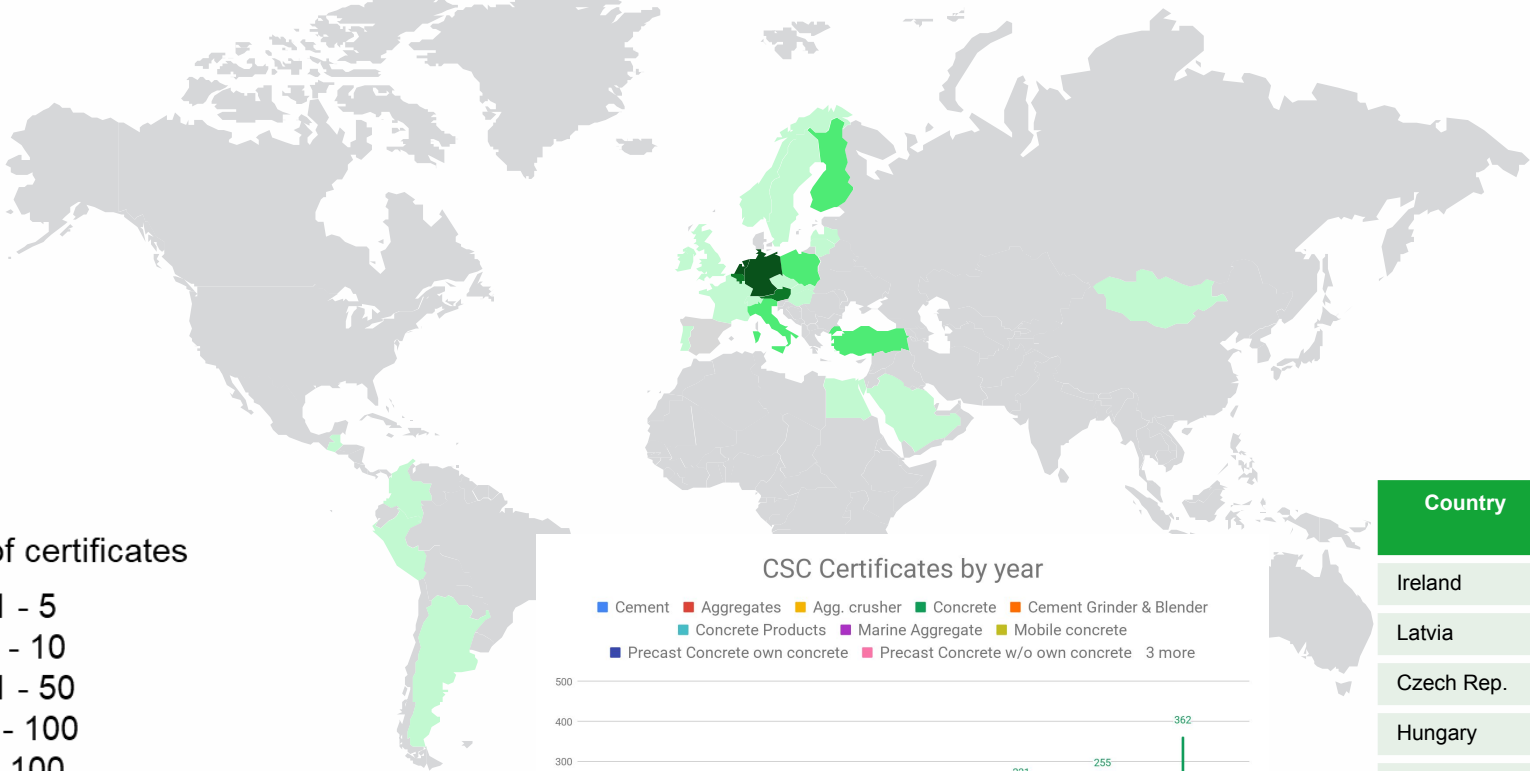
1440 certificates globally, in 25 countries globally *)



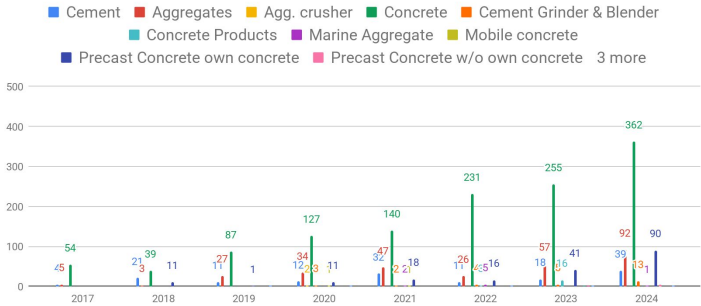
Number of certificates



1 - 5
6 - 10
11 - 50
51 - 100
> 100



CSC Certificates by year



Country	Date of Certificate
Ireland	July 24
Latvia	July 24
Czech Rep.	Sep. 24
Hungary	Sept. 24
Egypt	Nov. 24
Saudi Arabia	Dec. 24
Mongolia	April 25

*) July 2025, valid certificates

Recognized by different organizations worldwide...



Belgium



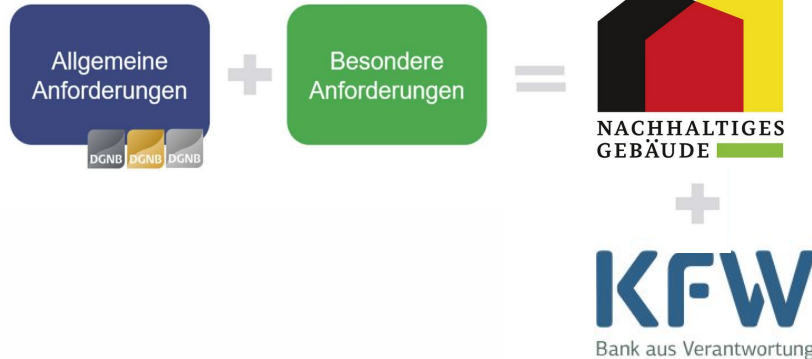
Saudi Arabia



The Netherlands



Germany (indirectly with DGNB recognition)



Global



One planet
handle with care



Global Alliance
for Buildings and
Construction

...and coming together with others globally, to increase our influence, effectiveness and impact, and collectively protect the nature on which we all depend...

What does the certification system reward?



PREREQUISITES

- P1 Ethical and Legal Compliance
- P2 Human Rights
- P3 Indigenous People Rights
- P4 Environmental and Social Impact
- P5 Traced Materials
- P6 Vessels Evidence List



MANAGEMENT

- M1 Sustainable Purchasing
- M2 Environmental Management
- M3 Quality Management
- M4 Health & Safety Management
- M5 Benchmark



ENVIRONMENTAL

- E1 Life Cycle Impact
- E2 Land Use
- E3 Energy & Climate
- E4 Air Quality
- E5 Water
- E6 Biodiversity
- E7 Secondary Materials
- E8 Transport
- E9 Secondary Fuels



SOCIAL

- S1 Local Community
- S2 Health Product Information
- S3 Occupational Health & Safety
- S4 Labor Practices



ECONOMICS

- B1 Local Economy
- B2 Ethical Business
- B3 Innovation
- B4 Feedback Procedure



CHAIN OF CUSTODY

- C1 Cement
- C2 Aggregates
- C3 Clinker
- C4 Raw Aggregates Suppliers
- C5 Ready Mix Concrete
- C6 Steel Reinforcement
- C7 Slag Supply to CSC Slag Grinder
- C8 Cement supply to CSC Cement Blender

CO2-Module

Plant Requirements

- L1 CSC certification Silver+
- L2 75% coverage of the cement supply chain
- L3 Monitoring of GHG emissions
CSC certification criterion E3.02 fulfilled
- L4 Quality Management: QMS

Product Requirements

- L5 Concrete Mix with CO2 reduction vs. baseline $\geq 30\%$

The certification system
rewards 32 categories besides
the basic requirements

R-Module

Plant Requirements

- R1 CSC certification Silver+
- R2 Traced R-material supply
- R3 R-material Consumption
- R4 Quality management
QMS, Use of certified R-material

Product Requirements

- R5 Concrete mix with minimum R-material content $\geq 10\%$

Supported by competent partners acting as RSOs



The Concrete Sustainability Council (CSC) Global is based in Geneva, Switzerland.

Meanwhile, CSC is represented by Regional System Operators (RSOs) around the world.

CSC typically collaborates with industry associations or key partners working across the entire concrete sector in specific countries or regions.



**Latin
America**



MENA



Austria



Belgium



Germany



Italy



USA

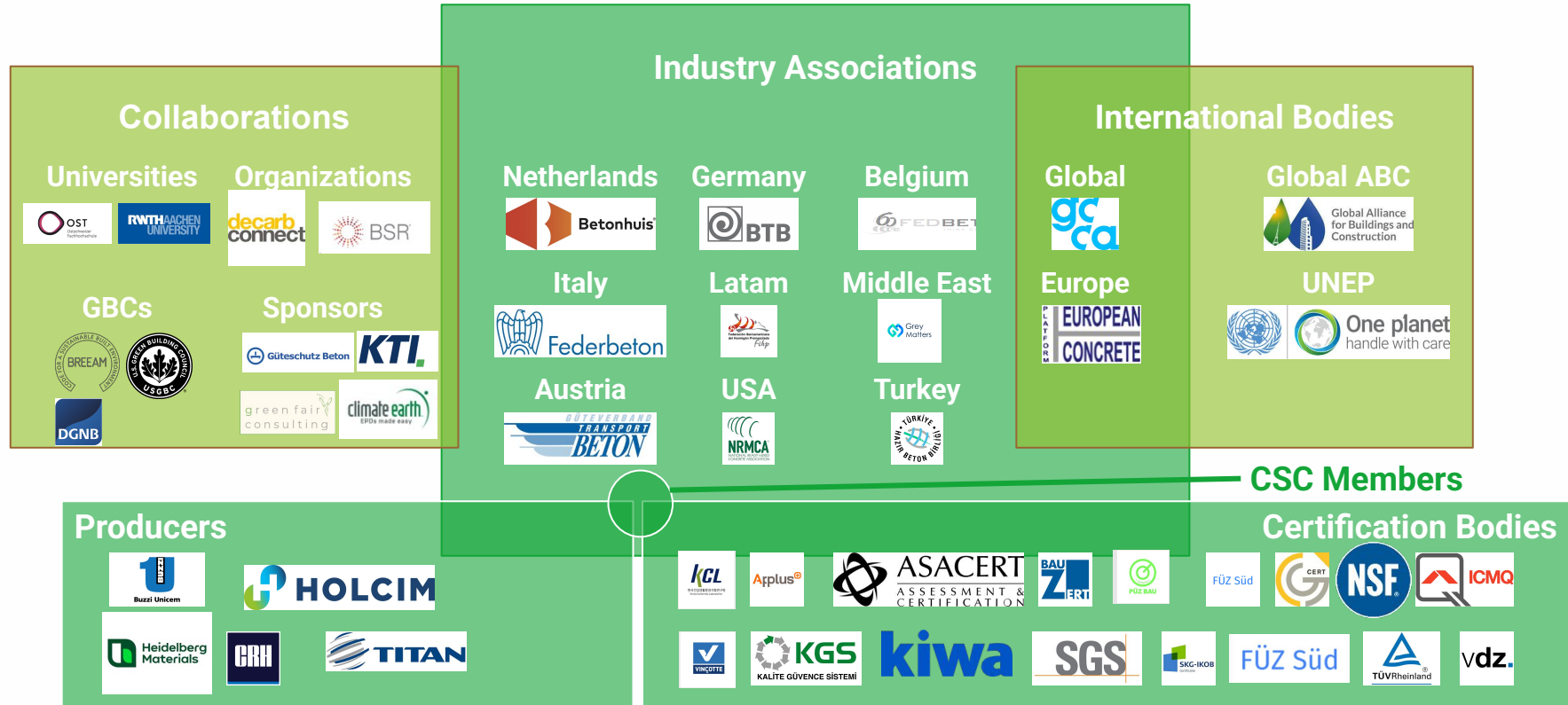


Netherlands

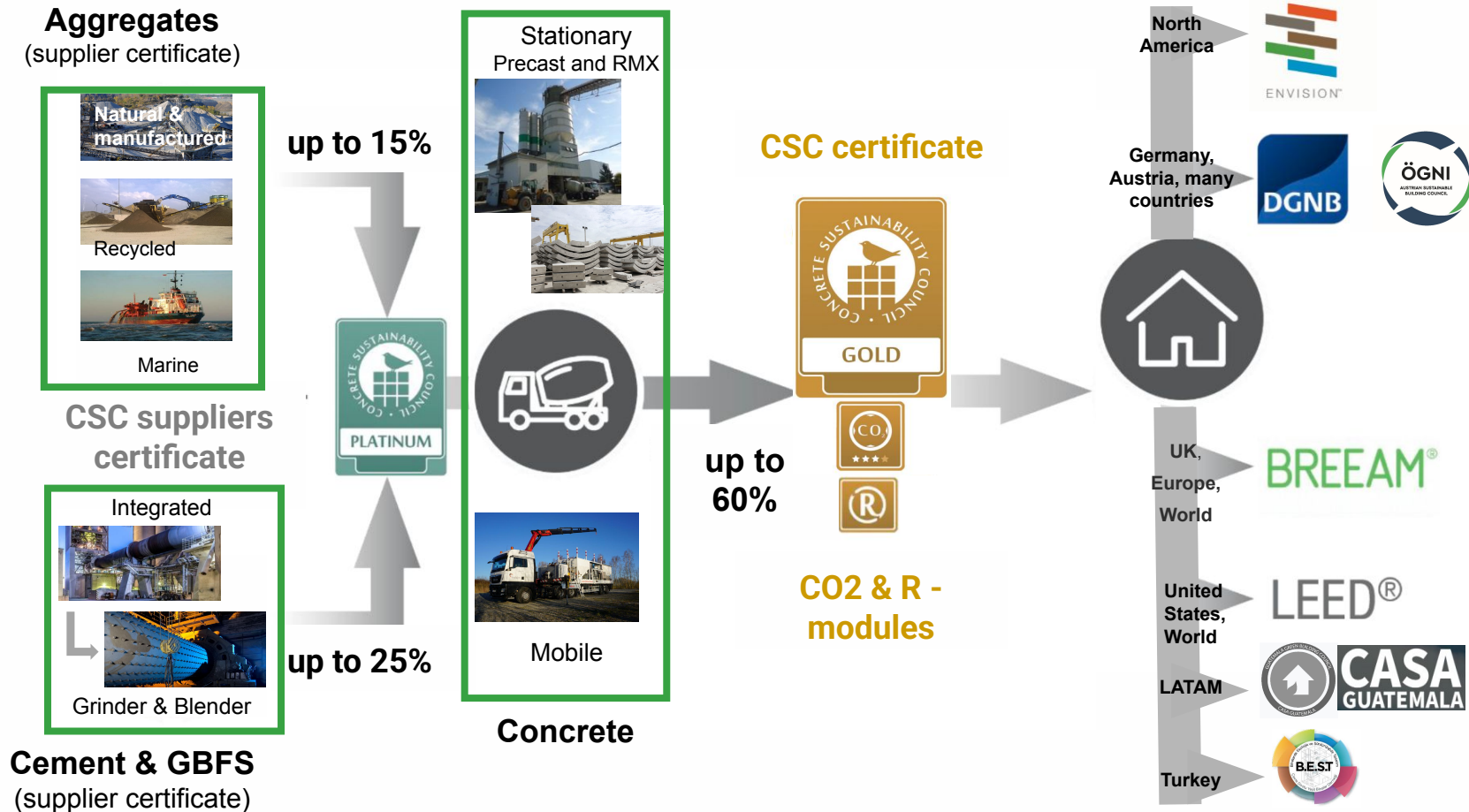


Turkey

CSC network extends to almost every country in the world



What plants can be CSC-certified?



Example of CSC Certified Plants



Ready-Mix concrete Plant in Innsbruck, Austria Fröschl Beton,
CSC SILVER CERTIFICATE



**AKÇANSA Cement Büyükçekmece Plant, Turkey,
CSC GOLD CERTIFICATE**

Providing evidence via the CSC toolbox



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CSC Toolbox

[Home](#)

Quickscan
rough estimate ambition

Pre-assessment
self-assessment

Assessment
validated by assessor

Certificates

Welcome to the CSC Toolbox

How responsibly sourced is your concrete? What are your responsible sourcing ambitions? This Toolbox enables you to analyse the environmental and social performance of your concrete and determine your ambition. Use the Quickscan for a quick impression, the AmbitionTool to determine your ambition, the Pre-assessmentTool to prepare you for a qualification and a certificate that you can get with the AssessmentTool.



	Quickscan rough estimate ambition	Pre-assessment self-assessment	Assessment validated by assessor
Description:	Make an estimation of your Concrete's Performance on Responsible Sourcing, for free and easily with the Quickscan Tool.	Calculate the responsible sourcing performance and ambition of your concrete by yourself accurately.	Prepare the certification and submit this assessment to be validated by a CSC Assessor.
Required knowledge:	None	CSC Expert	CSC Expert/Assessor
Detail level:	Credits	Criteria requirements	Evidence
Reporting type:	None	PDF report	Final report and CSC certificate
	Start now	Start now	Start now

- Social ☒
- Economical ☒
- Cement ☒
- Aggregates ☐

[My settings](#) [Help](#) [Contact](#) [Language](#) [Select tool](#) [Sign out](#)

nable ConcreteToolbox

[Home](#) [Portfolios](#) [Projects](#) [Projects](#)

Pre-assessment
self-assessment

Assessment
validated by assessor

Certificates

leidelberger Beton / Werk Frankfurt am Main - Oberhafen » 114-CSC18-2017 » Environmental » Energy &

017

Pre-assessment 79.39%
Final result 79.39%

[<](#) [>](#) **E3. Energy & Climate** 14 / 14 points

[Save](#) [View Evidence](#) [Share](#)

Goal of the credit:
To minimize the use of energy, maximize the use of renewable energy, and minimize greenhouse gas emissions.

E3.01 Criterion 1 (1 selected point / 1 available point) >

E3.02 Criterion 2 (1 selected point / 1 available point) >

E3.03 Criterion 3 (1 selected point / 1 available point) >

E3.04 Criterion 4 (1 selected point / 1 available point) >



Detailed assessment of the performance of the project

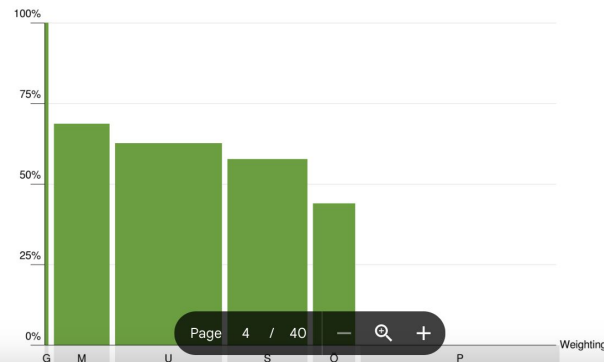
On the following pages requirements for this CSC scheme will be summarised, and the corresponding evidence will be shown.

On the basis of the supplied evidence the concerning CSC credits are granted or remembered. Every assessed part includes a validation of the CSC Assessor. This validation is a summary of the rating by the Assessor of the performances of the building compared to the requirements of CSC.

Summary Assessment score

Sections	Section score	Weighting	Result
G Grundvoraussetzung	100.00%	x 0.10%	= 0.10%
M Management	68.75%	x 11.92%	= 8.19%
U Umwelt	62.71%	x 21.97%	= 13.78%
S Soziales	57.78%	x 16.75%	= 9.68%
Ö Ökonomie	44.00%	x 9.31%	= 4.10%
P Produktkette	0.00%	x 39.96%	= 0.00%
Assessment qualification			35.84%

Section scores



S3.3 Requirement	Required	Responsibility of Expert
S3.3.1	No	-

S3.4 Requirement	Required	Responsibility of Expert
S3.4.1	No	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.5 Requirement	Required	Responsibility of Expert
S3.5.1	No	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.6 Requirement	Required	Responsibility of Expert
S3.6.1	Yes	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:
S3.6.2	Yes	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.7 Requirement	Required	Responsibility of Expert
S3.7.1	No	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.8 Requirement	Required	Responsibility of Expert
S3.8.1	No	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.9 Requirement	Required	Responsibility of Expert
S3.9.1	Yes	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.10 Requirement	Required	Responsibility of Expert
S3.10.1	No	-

S3.11 Requirement	Required	Responsibility of Expert
S3.11.1	No	Das Kriterium wird erfüllt durch [...]. Vgl. Nachweise und/oder folgenden Link:

S3.12 Requirement	Required	Responsibility of Expert
S3.12.1	No	-

Annex – selected sample sections

E Environmental - Annex



E1.02 Implementation of Life Cycle Analysis (LCA)

Applicable to region (s)	Criteria	Applicable sections	Evidence
Global		Concrete	x
		Cement	x
		Aggregates	x
			<p>LCA tools shall comply with ISO 14025/ISO 14040, the following tools are accepted:</p> <ul style="list-style-type: none"> • GABI • SimaPro • GCCA EPD Tool • One Click LCA • ReTHINK <p>For concrete, the use of an above tool for concrete must be presented, and respectively the same for cement.</p> <p>Only for aggregates, a use of the above tools for concrete or cement can be accepted as evidence instead of an LCA calculation for aggregates.</p>
The Netherlands		Concrete	x
		Cement	x
		Aggregates	x
Belgium		Concrete	x
		Cement	x
		Aggregates	x
Germany		Concrete	x
		Cement	
		Aggregates	

E1.03 Release of Environmental Product Declarations

Applicable to region	Criteria	Applicable sections	Evidence
----------------------	----------	---------------------	----------

S Social - Annex



S2.01 Public availability of information about product risks and safety

Applicable to region (s)	Criteria	Applicable sections	Evidence
Global	S2	Concrete	x
		Cement	x
		Aggregates	
Italy	S2	Concrete	x
		Cement	x
		Aggregates	

- European Union's REACH (registration, evaluation, authorization and restriction of chemicals) regulation or similar.
- Health Product Declarations
-

- For Italy additional for concrete:
- Evidence of the product/s registration in the dangerous preparation database by Istituto Superiore di Sanità (ISS) (<https://preparatipericolosi.iss.it/default.aspx>)
 - The producer shall provide a declaration by the management that safety sheets are in compliance with Association guidelines.

S4.02 Personal record for all employees

Applicable to region (s)	Criteria	Applicable sections	Evidence
Italy	S3	Concrete	x
		Cement	x
		Aggregates	x

- For Italy additional:
- A sample of training programs/certificates for employees.

S4.09

Applicable to region (s)	Criteria	Applicable sections	Evidence
--------------------------	----------	---------------------	----------

Certificates are valid for 3 years




A new certification (recertification) will be necessary when certificate expires.

Certification level is determined by the overall fulfillment rate (= score)

- Compliance with additional mandatory criteria for higher certification levels
- Certified plants must fulfil all prerequisites






www.csc.eco

Responsible sourcing certificate for concrete and its supply chain

Date of issue: 00-00-2024
Expiration date: 00-00-2027

Certification Body



000-CSC24-2024

Subject of certification

Concrete


CementAggregates

Hereby is being declared that:


Company Name (Country) - Plant Name

Address

has been assessed according to:
Concrete Sustainability Council (2024) (Aggregate)
3.0 English



www.csc.eco



Date of issue: 00-00-2024
Expiration date: 00-00-2027

Final result: 00,00 %
Subscore per category

Category	0	10	20	30	40	50	60	70	80	90	100
Prerequisites	00,00 %										
Management	00,00 %										
Environmental	00,00 %										
Social	00,00 %										
Economics	00,00 %										

Through exemplary performance additionally earned points (already included in category scores above)

Social0,00 %

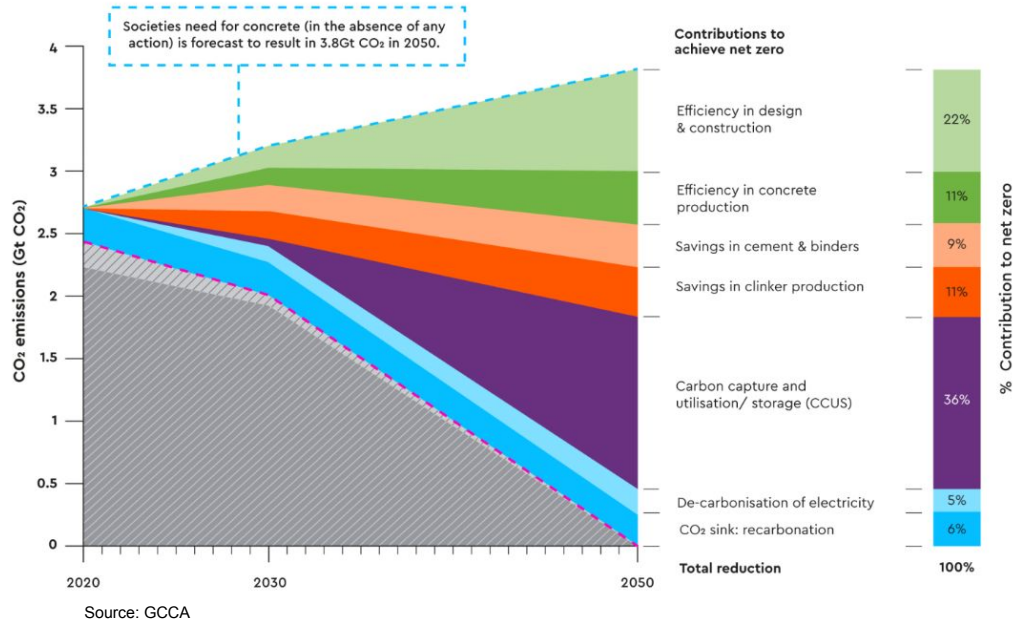
Company Name (Country) - Plant Name - 0000-CSC24-2024



The efficiency in design and construction plays a big role in getting to net zero



GETTING TO NET ZERO



The purpose of unlocking design levers is to ensure that **reduction of CO₂ emissions becomes a design parameter** in addition to the current parameters of quality, cost, speed and specific project client requirements.

Designers of buildings, with support of construction companies, can achieve CO₂ emission reductions through their choice of concrete floor slab geometry and system, choice of concrete column spacing and optimization of concrete strength/element size/reinforcement percentage. This can be achieved whilst still obtaining all the performance benefits of concrete construction. Infrastructure projects offer analogous opportunities.

By choosing certified CSC concrete with CO₂ add-on module, construction companies are contributing to this goal.

CSC Climate Indicators Overview: Aligning with Global Best Practices



The following slides present how CSC certification supports **climate change mitigation** across the concrete value chain.

We provide a structured overview of the **CSC Climate Indicators** – highlighting how companies can demonstrate transparent and credible action on greenhouse gas emissions.

Specifically, we'll cover three core focus areas:

1. **Climate Policy Commitment** – Establishing a public and transparent foundation for climate action
2. **Monitoring & Reporting** – Tracking and disclosing GHG emissions with reliability
3. **Target Setting & Achievement** – Defining and delivering on measurable emission reduction goals

These indicators reflect global best practices and are **aligned with the expectations of green building programs like LEED**, helping to support low-carbon, responsibly sourced construction materials.

E3.01 – Climate Policy

The company demonstrates a **public commitment** to climate action by:

- **Measuring and reporting** its greenhouse gas (GHG) emissions
- Setting a **publicly available GHG emission reduction target**

This policy serves as the **foundation** for monitoring, reporting, and target achievement efforts.

Accepted forms of evidence:

1. A **publicly available policy or commitment** (e.g. on the company website) to:
 - Measure, report, and reduce GHG emissions
 - For aggregates: alternatively, a commitment to measure, report, and reduce **energy consumption**
2. OR: **Membership in a sector organization** (e.g. GCCA) that requires such a commitment as a condition of membership
3. A **publicly available GHG reduction target** — accessible to anyone online, with no login or special permissions

Monitoring

- **E3.02 – Monitoring of GHG emissions**

Regular measurement and calculation of GHG emissions across **cement, concrete, and aggregates**.

- **E3.10 – CO₂ emissions**

Reporting of **specific CO₂ emissions per ton of cementitious product**, compared against performance thresholds. Data must be **externally verified** (ISAE 3000).

Reporting

- **E3.03 – Public reporting**

Emission data must be published **annually**, with reports not older than **1.5 years** at time of certification.

- **E3.04 – External verification**

GHG data must be independently verified according to **ISAE 3000**.

- **E3.05 – GNR database**

Reporting through the **GCCA GNR database** or national cement association.

- **E3.06 – CDP reporting**

Annual disclosure to CDP of **Scope 1, Scope 2, and relevant Scope 3 emissions**, including **public evidence of reduction actions**.

E3.07 – Science-based reduction targets

The company sets **SBTi-verified CO₂ reduction targets** with a time horizon extending to at least **2030**.

E3.08 – Achievement of reduction targets

Demonstrated **progress in line with the published CO₂ reduction path**, as part of ongoing climate action.



GCCA picture competition, 2024, Greg Trainor
Russain Gulch CA Mendocino

The CO2 Module

- aims to create transparency with regard to the greenhouse gas emissions associated with concrete production and to classify CO2-optimized concrete into CO2 classes.
- aims at creating transparency and credibility
- can be used as a marketing tool for concrete to demonstrate verifiable reduction of embodied carbon
- It is not an EPD

CO2-Module

Plant Requirements

- L1 CSC certification Silver+
- L2 75% coverage of the cement supply chain
- L3 Monitoring of GHG emissions
CSC certification criterion E3.02 fulfilled
- L4 Quality Management: QMS

Product Requirements

- L5 Concrete Mix with CO2 reduction vs. baseline $\geq 30\%$



1 Star: - **30 %**



2 Stars: - **40 %**



3 Stars: - **50 %**



4 Stars: - **60 %**

As of July 2025, 330 CO2 module certificates have been successfully achieved in The Netherlands, Germany, Austria, Luxembourg and Belgium

- ❖ Valid EPDs verified by a third party
- ❖ CO2 calculation including background data via an LCA calculation tool accepted by CSC
- ❖ Proprietary and/or unverified EPD tools are not permitted
- ❖ Recognized calculation tools:
 - GCCA tool
 - GaBi software
 - SimaPro
 - R<THiNK
 - ORIS (for aggregates only)
 - Climate Earth
- ❖ Other / Local tools subject to external review and CSC approval

Defining low carbon concrete facilitates the process to be incorporated in tenders...



Germany						
CO2-\Strength-Classes	C20/25	C25/30	C30/37	C35/45	C45/55	C50/60
Maximum Greenhouse Gas Emissions per reduction level [net kg CO2eq. / m ³]*)						
Reference values	213	237	261	286	312	325
Level 1 (↓ ≥ 30%)	149	166	187	208	230	239
Level 2 (↓ ≥ 40%)	128	144	162	179	198	206
Level 3 (↓ ≥ 50%)	107	122	139	154	171	178
Level 4 (↓ ≥ 60%)	85	99	113	125	140	146



Sample tender documents asking for low carbon materials

- Steel ...
- Concrete
 - “Concrete must be supplied from RMX concrete plants with a CSC Certificate Silver or higher.
 - The following CO2-classes must be achieved:
 - Slabs, 3000 PSI, CSC Level 2
 - Columns, 4000 PSI, CSC Level 3
 - Walls, 3000 PSI, CSC Level 2
- Aluminium Facade cladding ...

- ❖ RSO determines the reference values
- ❖ Reference values according to compressive strength classes
- ❖ Starting basis: EPDs of compressive strength classes 20 MPa / 2'900 PSI
- ❖ EPDs: life cycle assessment based on average cement
- ❖ CSC CO2 module: replacing the average cement with an OPC
- ❖ Choice of a OPC justified by
 - Ensuring international comparability
 - Existing data quality via the OPC (CEM I) at international level
 - Use of the same CO2 classes at international level
 - Concrete compositions are publicly available in the background report

The R Module

- Prerequisite: plant must have at least Silver CSC certification
- Rewards plants for generation and use of recycled materials
- Acknowledges implementation of quality management system (QMS)
- Products must use at least 10% recycled material content



1 Star: **10 %**



2 Stars: **20 %**



3 Stars: **40 %**



4 Stars: **80 %**

- As of July 2025, 190 certificates has been issued in Austria, Germany, the Netherlands and Belgium.

R-Module

Plant Requirements

- R1 CSC certification Silver+
- R2 Traced R-material supply
- R3 R-material Consumption
- R4 Quality management
QMS, Use of certified R-material

Product Requirements

- R5 Concrete mix with minimum R-material content $\geq 10\%$



Why CSC certification is of unique value?



Trusted Third-Party Verification

Provides independent validation of sustainability achievements—building confidence among clients, regulators, and certifiers.

Drives Circular Economy & Continuous Improvement

Supports a journey of ongoing progress, enabling producers to stay ahead of regulations and ESG reporting.

Global, Holistic & Rigorous

The only global material stewardship system for concrete—combining environmental, social, and governance criteria under one pragmatic, transparent, and credible framework.

Strong Focus on Low-Carbon Construction

Provides measurable benchmarks for decarbonization, directly supporting LEED v5 goals.

Inclusive & Accessible

Open to producers of all sizes—with a focused scope and lower costs, CSC makes responsible sourcing attainable industry-wide.

Procurement-Ready & Recognized

Simplifies validation in tenders and green building projects—enhancing transparency, trust, and LEED alignment



Building a sustainable future



Thank you all for your attention and engagement today

 **WWW.CSC.ECO**

Q & A

NSF Certification, LLC



<https://www.nsf.org/>

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NSF conduct certifications for multiple building product types, including Natural Stone Products.

NSF provides services in 110 countries across all major industries.

NSF By The Numbers

80

Years of Championing Human and Planet Health

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40,000

Client Sites

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110

Countries Where Services Provided

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