



Concrete Sustainability Council

Technical Manual - Version 3.0 (Annex)

The Concrete Sustainability Council (CSC)

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02.01.2024

P1.01 Legal compliance

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additionally for concrete: <ul style="list-style-type: none"> • UNILAV, the compulsory on line document to communicate a new employee (for plant employees) • DOL (Durc On Line), certification of social contributions compliance (for transport companies employees) • LUL (Libro Unico del Lavoro – Unique Labour Book), a compulsory register with information about employees such as work tasks, work hours, etc. (for transport companies employees) • evidence of the salary payments (for transport companies employees) • FPC certificate for concrete plants • Environmental authorization for concrete plants (AUA)
		Cement	x	
		Aggregates	x	

P1.02 Anti-corruption

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy alternative: <ul style="list-style-type: none"> • A copy of the ISO37001 certificate OR <ul style="list-style-type: none"> • Evidence of Administrative responsibility For Italy additional for concrete: <ul style="list-style-type: none"> • White list inclusion evidence (i.e. screenshot of the public list from district website)
		Cement	x	
		Aggregates	x	

P2.01 Human rights

Refer to the following list of key resources for understanding content of internationally recognized human rights and guidance on respecting these rights in a business context.

Applicable to region (s)	Key Resources	Applicable sections		Hyperlink
Global	OECD Guidelines for Multinational Enterprises	Concrete	x	http://mneguidelines.oecd.org/guidelines/
		Cement	x	
		Aggregates	x	
	OECD Guidance on Due diligence for responsible business conduct	Concrete	x	https://www.oecd.org/investment/due-diligence-guidance-for-responsible-business-conduct.htm
		Cement	x	
		Aggregates	x	
	UN Guiding Principles on Business and Human Rights	Concrete	x	https://www.ohchr.org/sites/default/files/documents/publications/guidingprinciplesbusinesshr_en.pdf
		Cement	x	
		Aggregates	x	

Applicable to region (s)	Key Resources	Applicable sections		Hyperlink
Global	Fundamental ILO conventions	Concrete	x	https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12000:0::NO::
		Cement	x	
		Aggregates	x	
	ICRMW (convention for migrant workers)	Concrete	x	https://www.ohchr.org/en/instruments-mechanisms/instruments/international-convention-protection-rights-all-migrant-workers
		Cement	x	
		Aggregates	x	

	ICESCR (International covenant on economic, social and cultural rights)	Concrete	x	https://www.ohchr.org/en/instruments-mechanisms/instruments/international-covenant-economic-social-and-cultural-rights
		Cement	x	
		Aggregates	x	
	UDHR (Universal declaration of human rights)	Concrete	x	https://www.un.org/en/about-us/universal-declaration-of-human-rights
		Cement	x	
		Aggregates	x	

According to the UN Guiding Principles on Business and Human Rights:

Applicable to region (s)	Topics	Applicable sections		Further Information
Global	Policy commitment	Concrete	x	Business enterprises should express their commitment to meet this responsibility through a statement of policy that: (a) Is approved at the most senior level of the business enterprise; (b) Is informed by relevant internal and/or external expertise; (c) Stipulates the enterprise's human rights expectations of personnel, business partners and other parties directly linked to its operations, products or services; (d) Is publicly available and communicated internally and externally to all personnel, business partners and other relevant parties. Publicly available means that the information is available to anyone on the web, without the
		Cement	x	
		Aggregates	x	

				<p>need for special qualifications, permissions, or privileges.</p> <p>(e) Is reflected in operational policies and procedures necessary to embed it throughout the business enterprise.</p>
	Due diligence	Concrete	x	<p>In order to identify, prevent, mitigate and account for how they address their adverse human rights impacts, business enterprises should carry out human rights due diligence.</p> <p>The process should include assessing actual and potential human rights impacts, integrating and acting upon the findings, tracking responses, and communicating how impacts are addressed. Human rights due diligence:</p> <p>(a) Should cover adverse human rights impacts that the business enterprise may cause or contribute to through its own activities, or which may be directly linked to its operations, products or services by its business relationships;</p> <p>(b) Will vary in complexity with the size of the business enterprise, the risk of severe human rights impacts, and the nature and context of its operations;</p> <p>(c) Should be ongoing, recognizing that the human rights risks may change over time as the business enterprise's operations and operating context evolve.</p>
		Cement	x	
		Aggregates	x	

	Remediation	Concrete	x	<p>Where business enterprises identify that they have caused or contributed to adverse impacts, they should provide for or cooperate in their remediation through legitimate processes. Where a business enterprise identifies such a situation, whether through its human rights due diligence process or other means, its responsibility to respect human rights requires active engagement in remediation, by itself or in cooperation with other actors.</p> <p>Operational-level grievance mechanisms for those potentially impacted by the business enterprise's activities can be one effective means of enabling remediation.</p>
		Cement	x	
		Aggregates	x	

P2.02 Conflict with local laws

For specific examples or adaptations related to conflict with local laws or lower standards, see the list below.

Applicable to region (s)	Criteria	Applicable sections		Evidence / Hyperlink
Global	Freedom of association and collective bargaining	Concrete	x	Where country law prohibits or limits workers' rights to freedom of association and collective bargaining, the company should make sure that its practices do not prevent workers from forming or joining legally acceptable worker organizations
		Cement	x	
		Aggregates	x	
	LGBTQI+ rights	Concrete	x	

		Cement	x	For reference to verify how companies can diminish discrimination, foster diversity and promote a culture of respect and equality https://www.unfe.org/Standards/
		Aggregates	x	
	ILO factsheets on key legal provisions dealing with migrant workers in eight Arab countries	Concrete	x	For reference to verify any claims by the company regarding legal rules on who pays for recruitment, whether passport confiscation is prohibited by law, minimum working conditions including wages, working hours and rest periods, how to lodge grievances, and brief details of each country's sponsorship regime. https://www.ilo.org/beirut/projects/fairway/WCMS_776362/lang-en/index.htm
		Cement	x	
		Aggregates	x	

P2.03 Labour Rights

For specific examples or adaptations related to the core listed ILO conventions, see the list below.

Regarding migrant workers, they should be considered across all labour rights, meaning that the Company must make sure that migrant workers are treated as non-migrant workers.

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global	Child Labour. Child labour shall not be used. Companies are requested to follow the ILO conventions recommendation of minimum age for	Concrete	x	Commitment to uphold ILO Conventions and proof of internal communication
		Cement	x	
		Aggregates	x	AND Recruitment and other human resources procedures, practices and records that demonstrate how company

	admission to employment.			screens out underage workers, protects young workers, and resolves discovery of child labour in the workplace.
	<p>Forced Labour and human trafficking Forced or compulsory labour shall not be used.</p> <p>Employees shall be free to leave employment after reasonable notice.</p> <p>Identity documents should not be withheld by the employer.</p>	Concrete	x	<p>Commitment to uphold ILO Conventions and proof of internal communication /implementation.</p> <p>AND</p> <p>Provide evidence that explains what is done to prevent forced labour.</p> <p>AND</p> <p>Demonstrate by human resources policies and practices how the company ensures that workers are not required to pay recruitment and placement fees, or make deposits for their jobs and that original identity documents are not withheld and are provided to the employees on his/her demand.</p>
		Cement	x	
		Aggregates	x	
Global	<p>Freedom of association and collective bargaining Companies are expected to adhere to the right of employees to freedom of association and recognition of employees' rights to collective bargaining, where allowable by law.</p>	Concrete	x	<p>Agenda and minutes of meetings with employees where labour conditions, wages or other topics were discussed and actions taken after the meeting.</p> <p>OR</p> <p>a collective labour agreement if such has been agreed.</p>
		Cement	x	
		Aggregates	x	

	Discrimination (Gender equality, Political persuasion, religious freedom, violence and harassment)	Concrete	x	Signed 'non - discrimination policy' by the company and proof of internal communication/implementation.
		Cement	x	
		Aggregates	x	
	Harassment or discrimination against employees in any form is not acceptable. This includes but is not limited to gender, ethnic origin, skin colour, religion, sexual orientation, disability or age.			
Global	Fair wages and salary rates Wage and salary rates for permanent and agency workers meet or exceed in all circumstances: i. legal minimum rates, where such rates exist. ii. minimum concrete, cement or aggregates industry, respectively, minimum standards; or iii. other recognized industry wage agreements; or iv. living wages are higher than legal minimum wages.	Concrete	x	Written statement by senior management satisfying the assessment criteria. OR publicly available company commitment to follow the OECD guidelines for multinational enterprises. Publicly available means that the information is available to anyone on the web, without the need for special qualifications, permissions, or privileges.
		Cement	x	
		Aggregates	x	

	<p>When no minimum wage levels exist, wages are established through culturally appropriate engagement with workers and/or formal and informal workers organisations.</p> <p>Wages and salaries are paid on time.</p>			
	<p>Health and Safety Procedures: The company has documented health and safety procedures in place.</p>	Concrete	x	<p>Validation by the auditor that the company has documented health and safety procedures in place.</p> <p>OR</p> <p>Criterion M4.01 is met</p> <p>OR</p> <p>existence of certification against ISO 45001 or equivalent standard.</p>
		Cement	x	
		Aggregates	x	
Global	<p>Working Hours: The regular working hours in the company are in compliance with the country's laws and do not exceed 48 hours per week on a regular basis. Including overtime, the working week is limited to 60 hours, and workers' voluntary consent for overtime is given.</p>	Concrete	x	<p>Company can demonstrate it meets this criterion by existing Human Resources policies and practices, documents and records, as well as pay-roll registers and pay-roll slips containing at minimum the following: pay period, regular hours worked, overtime hours worked, regular wages, overtime wages, benefits, bonuses, gross earnings, deductions, net wage.</p>
		Cement	x	
		Aggregates	x	

	Employees have rest time and are given one day off, in at least 24 consecutive hours, over a period of seven days. Employees are given holidays and annual leave in compliance with the country's laws or any other applicable industry agreement.			
	Social Security Benefits: Company can demonstrate it allows employees the social security benefits that they are entitled to by law, such as medical care, sickness, unemployment, pension benefits, employment injury, maternity benefits, and is in compliance with the country's law or other applicable industry agreement.	Concrete	x	Company can demonstrate it meets this criterion by existing Human Resources policies and practices, documents and records, as well as pay-roll registers and pay-roll slips containing specifically the following: pay period, gross earnings, social security benefits deductions, net wage.
		Cement	x	
		Aggregates	x	

P3.01 Assessment of potential impact on indigenous people

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Countries where indigenous peoples

		Cement	x	<p>issues are irrelevant:</p> <ul style="list-style-type: none"> • Austria • Belgium • Czech Republic • Denmark • Estonia • Germany • Hungary • Ireland • Iceland • Italy • The Netherlands • Poland • Portugal • Slovak Republic • Spain • Switzerland • United Kingdom <p>Source: http://www.landmarkmap.org/ and OECD (Organisation for Economic Co-operation and Development) Home page - OECD</p>
		Aggregates	x	

P3.02 Free, prior and informed consent

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		<p>The following frameworks may be used to demonstrate compliance with this criterion:</p> <ul style="list-style-type: none"> • ci fpic-guidelines-english.pdf (conservation.org) <p>Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities framework by the World Bank: 9914-Guidance Notes 7.indd (worldbank.org)</p>
		Cement	x	
		Aggregates	x	

P4.01 Environmental and social impact assessment (ESIA)

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		The following frameworks may be used to demonstrate compliance with this criterion: <ul style="list-style-type: none"> • Guidelines for Environmental Social Impact Assessment.pdf (wbcsd.org)
		Cement	x	
		Aggregates	x	

P5.01 Traceability of materials

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additional for concrete: <ul style="list-style-type: none"> • Evidence that the CPR (Regulation 305/2011) is implemented for cement and aggregates AND <ul style="list-style-type: none"> • Evidence that the CLP (Regulation 1272/2008) is implemented for cement
		Cement		
		Aggregates		

P6.01 Vessels Evidence List (Marine Aggregates)

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		List of countries which have ratified the Marine Labor Convention (MLC) <ul style="list-style-type: none"> • Ratifications of ILO conventions: Ratifications by Convention
		Cement		
		Aggregates	x	

M1.03 Training on responsible sourcing

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additionally: <ul style="list-style-type: none"> • mapping of training • training program • registration of training application
		Cement	x	
		Aggregates	x	For Italy additionally for concrete (including transport companies): <ul style="list-style-type: none"> • driving licence • driver qualification certificate (compulsory) • qualification certificate (compulsory) for concrete pump operator

M1.05 Responsible sourcing as a criterion in the procurement process

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additionally for cement and concrete: <ul style="list-style-type: none"> • evidence must be provided for each supplier • self-declaration by the management about the alignment with Association guidelines <p>OR</p> <p>an evidence of Association membership</p>
		Cement	x	
		Aggregates	x	

M2.01 Documented EMS

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>A documented, non-certified environmental management system (EMS) should be based on the following criteria. With the exception of points 1 to 3, the criteria mentioned here are neither minimum requirements nor an indicative list, but are intended to provide a useful framework for a documented EMS:</p> <ol style="list-style-type: none"> 1. Definition of environmental targets (mandatory) 2. Assignment and description of EMS responsibilities (mandatory) 3. Monitoring and documentation of key figures (mandatory) <ul style="list-style-type: none"> ○ Consumption recording (water, electricity, oil, gas) ○ Proof of waste disposal ○ Evaluation / internal monitoring ○ Permits, if applicable 4. Scope and factors influencing an EMS <ul style="list-style-type: none"> ○ Noise ○ Dust ○ Waste by type ○ Water <ol style="list-style-type: none"> i. Extraction ii. Disposal/ Whereabouts ○ Energy <ol style="list-style-type: none"> i. Electricity ii. Gas iii. Fuel oil iv. Miscellaneous ○ Hygiene and health protection 5. Protective measures against environmental contamination <ul style="list-style-type: none"> ○ General measures ○ Special measures
		Cement	x	
		Aggregates	x	

				<ul style="list-style-type: none"> i. Fall arrest systems ii. Sump trays iii. Separator iv. Miscellaneous
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M2.02 Certified EMS

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted EMS systems are: <ul style="list-style-type: none"> • ISO 14001 (3 points) • NRMCA GreenStar (3 points) • EMAS (3 points)
		Cement	x	
		Aggregates	x	

M3.01 QMS

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted QMS systems are: <p>Concrete</p> <ul style="list-style-type: none"> • Procedures specified in EN 206, and the related national application documents
		Cement	x	
		Aggregates	x	
Global		Concrete	x	Documented Quality Management System: Suggested Minimum Requirements <ol style="list-style-type: none"> 1. Scope of the quality management system <ul style="list-style-type: none"> – Organization of quality management – Organization chart – Attestation of conformity procedures – References to standards and rules and limits of applicability 2. Context of the organization <ul style="list-style-type: none"> – Internal and external issues relevant
		Cement	x	
		Aggregates	x	

				<p>for the organization</p> <ul style="list-style-type: none"> – Needs and expectations of interested parties <ol style="list-style-type: none"> 3. Quality management system and its processes 4. Release of products and services and control of nonconforming outputs 5. Quality management system <ol style="list-style-type: none"> a. Documentation requirements b. Control of documented information (assessing, updating, making available) c. Quality assurance (procedural-, work-and test instructions and markings) d. Quality policy e. Quality targets – measurable and scalable f. Training
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M3.02 Certified QMS

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>Accepted QMS systems are:</p> <ul style="list-style-type: none"> • ISO 9001 (3 points) • NRMCA Producer Quality Certification (3 points) <p>Concrete:</p> <ul style="list-style-type: none"> • Procedures according to EN 206 appendix C.3.1 (1 point) <p>Cement:</p> <ul style="list-style-type: none"> • Valid CE certificate according to hEN 197-1 (1 point) <p>Aggregates:</p> <ul style="list-style-type: none"> • Valid CE certificate according to hEN 12620 (1 point) • Procedures according to AVCP (Assessment and Verification of Constancy of Performance) at the system level 1, 1+ or 2+ (1 point)
		Cement	x	
		Aggregates	x	

				Note: no points are awarded for AVCP system level 3 and 4
Netherlands		Concrete	x	For the Netherlands additionally: <ul style="list-style-type: none"> KOMO (2 points)
		Cement	x	
		Aggregates	x	
Belgium		Concrete	x	For Belgium additionally: <ul style="list-style-type: none"> BENOR (2 points)
		Cement	x	
		Aggregates	x	
Germany		Concrete	x	For Germany additionally: <ul style="list-style-type: none"> Certificate of conformity, control certificate according to EN 206-1 appendix C (2 points) including national application rules as set out in DIN 1045-2

M4.01 Health & Safety management system

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>Documented Health & Safety Management System: Suggested Minimum Requirements</p> <p>The information outlined from the second level of hierarchy are no strict requirements, but rather a mere illustration of the range of subjects that can be addressed.</p> <ol style="list-style-type: none"> Occupational health and safety policy of the company Management tasks within the H&S management system Objectives and measures Organization <ol style="list-style-type: none"> Organizational chart of the company incl. H&S representative Transfer of duties in the area of H&S Safety Specialist Safety Officers / First Responders
		Cement	x	
		Aggregates	x	

				<ul style="list-style-type: none"> e. Company doctor f. Occupational Health and Safety Committee meetings g. Operational Emergency Management 5. Processes <ul style="list-style-type: none"> a. Risk assessment b. Instruction / Training <ul style="list-style-type: none"> i. Instruction matrix ii. Operating instructions iii. Permits iv. Contractor management c. Training / Further education <ul style="list-style-type: none"> i. Training schedule d. Plants / Company inspections e. Testing of work equipment <ul style="list-style-type: none"> i. Work equipment register ii. Checklist f. Hazardous substances <ul style="list-style-type: none"> i. Hazardous substances register ii. Operating instructions g. Deadline monitoring 6. Occupational health care <ul style="list-style-type: none"> a. Precautionary file 7. H&S Key Figures and Documentation <ul style="list-style-type: none"> a. Accidents with lost days <ul style="list-style-type: none"> i. Accident frequency rate ii. Accident severity rate b. Accidents without lost days <ul style="list-style-type: none"> i. Accidents involving a visit to the doctor ii. First aid book entries 8. Organizational instructions 9. Work instructions
Italy		Concrete	x	For Italy additionally for concrete: <ul style="list-style-type: none"> • self-declaration by the management about the alignment to the national health and safety guidelines (issued by INAIL - National Institute for Insurance against Accidents at Work)
		Cement	x	
		Aggregates	x	

M4.02 Certified Health & Safety management system

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted H&S management systems are: <ul style="list-style-type: none"> RI&E assessment <u>if executed by a third party</u> (2 point) ISO 45001 (3points)
		Cement	x	
		Aggregates	x	
Germany		Concrete	x	For Germany additionally: <ul style="list-style-type: none"> Sicherheit mit System (2 points) Sicherheit mit System with additional reference to ISO 45001 (3 points) OHRIS (2 points) Arbeitsschutz mit System (AMS-Bau) (2 Points) Arbeitsschutz mit System (AMS-Bau) with reference to ISO 45001 (3 Points)
		Cement	x	
		Aggregates	x	
Turkey		Concrete	x	For Turkey additionally: <ul style="list-style-type: none"> GreenHelmet (2 points)
		Cement	x	
		Aggregates	x	

M5.01 Publishing annual performance data (KPIs)

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted reporting standards are: <ul style="list-style-type: none"> GRI, both core option and comprehensive option SASB The report (global and every local adaptation) must cover the following subjects:
		Cement	x	
		Aggregates	x	

				<ul style="list-style-type: none"> • Foreword by the company management • Company profile • Vision/strategy/goals of the company in relation to the at least 5 KPIs mention in M5.01 • Full calendar year data published no later than the previous year of certification. • The report must include data from the calendar year prior to the publishing year of the report.
Germany		Concrete	x	For Germany additionally: <ul style="list-style-type: none"> • Deutscher Nachhaltigkeitskodex
		Cement	x	
		Aggregates	x	

M5.02 Externally verified KPIs

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted verification standards are: <ul style="list-style-type: none"> • ISAE 3000 (revised) (2 Points)
		Cement	x	
		Aggregates	x	
Belgium		Concrete	x	For Belgium additionally Accepted standards for verification of environmental KPIs under the prerequisite that social KPIs as reported in the Sustainability Report are also reported to government bodies by legal obligation <ul style="list-style-type: none"> • ISO 14016:2000 for environmental KPIs if performed by Certification Bodies holding and ISO 14065 accreditation (1 Point)
		Cement	x	
		Aggregates	x	

Netherlands		Concrete	x	For the Netherlands additionally <ul style="list-style-type: none"> Dutch Standard 3810N Assurance-opdrachten inzake niet-financiële verslaggeving (2 Points)
		Cement	x	
		Aggregates	x	

M5.03 Participation to a benchmark study

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Not applicable
		Cement		
		Aggregates		
The Netherlands		Concrete	x	Accepted benchmarking schemes: <ul style="list-style-type: none"> The BetonBewust benchmark system is accepted as evidence
Italy		Concrete	x	Accepted benchmarking schemes: <ul style="list-style-type: none"> Federbeton Rapporto di Sostenibilit� written confirmation by Federbeton that the company has contributed to the report
		Cement	x	
		Aggregates		

E1.03 Release of Environmental Product Declarations**E1.04 Release of environmental product declarations (EPDs) on plant level**

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>The life-cycle assessment has to be independently verified according to the requirements of one of the following standards:</p> <ul style="list-style-type: none"> • ISO 14025, • ISO 21930 • EN 15804 • ASTM E1991-05 (withdrawn but recent EPDs are accepted) • XP P 01-064/CN (2014) (France) • national equivalents <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>
		Cement	x	
		Aggregates	x	
The Netherlands		Concrete	x	<p>LCA tools shall comply with ISO 14025/ISO 14040:</p> <ul style="list-style-type: none"> • Rekentool Groen Beton
		Cement	x	
		Aggregates	x	
Belgium		Concrete	x	<p>LCA tools shall comply with ISO 14025/ISO 14040:</p> <ul style="list-style-type: none"> • LCA QUADRANT Tool
		Cement	x	

		Aggregates	x	<ul style="list-style-type: none"> Rekentool Groen Beton
Germany		Concrete	x	LCA tools shall comply with ISO 14025/ISO 14040: <ul style="list-style-type: none"> SLG Umweltrechner (for concrete pavers only)

E2.01 Policy to avoid globally or nationally important sites

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Policy referring to the avoidance of activities within for example: <ul style="list-style-type: none"> Internationally protected areas (Ramsar, UNESCO World Heritage Sites) International Union for Conservation of Nature (IUCN) categories
		Cement	x	
		Aggregates	x	

E2.02 Responsible land use

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Cement and Aggregates Evidence 1 Company policy on responsible land use Evidence 2 Quarry development plan providing evidence of progressive reclamation and adherence to accepted guidelines for quarry reclamation plans: <ul style="list-style-type: none"> Any internal policy / standard specifically related to reclamation CSI guideline on Quarry rehabilitation: https://www.wbcds.org/Sector-Projects/Cement-Sustainability-Initiative/Resources/Guidelines-on-Quarry-Rehabilitation SER International mining site restoration standards:
		Cement	x	
		Aggregates	x	

				https://www.ser.org/page/mining Evidence 3 Active engagement with key stakeholders <ul style="list-style-type: none"> community engagement plants after-use/reclamation plan consultation events Evidence for mobile recycled aggregate plants: E2.02 is automatically achieved for mobile recycled aggregate plants (points achieved by default).
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E3.02 Monitoring of GHG emissions

E3.03 Public reporting of monitoring results

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Equivalents to GCCA Protocol: <ul style="list-style-type: none"> ...
		Cement	x	
		Aggregates	x	

E3.06 Reporting to CDP

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Relevant extracts of the CDP evaluated climate questionnaire: <ul style="list-style-type: none"> Section C5. Emissions methodology Section C6. Emissions data
		Cement	x	
		Aggregates		

E3.07 Science based CO2 emission reduction target

Applicable to region	Criteria	Applicable sections	Evidence
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(s)				
Global		Concrete		Approved Organizations: <ul style="list-style-type: none"> • Science Based Target Initiative with the following levels <ul style="list-style-type: none"> ○ 2°C (2 Points) ○ Well below 2°C (4 Points) ○ 1.5°C (6 Points)
		Cement	x	
		Aggregates		

E3.10 CO₂ emissions

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Accepted verification standards are: <ul style="list-style-type: none"> • ISAE 3000 (revised)
		Cement	x	
		Aggregates		
Belgium		Concrete		For Belgium additionally <ul style="list-style-type: none"> • ISO 14016:2000 for environmental KPIs if performed by Certification Bodies holding and ISO 14065 accreditation
		Cement	x	
		Aggregates		
Netherlands		Concrete		For the Netherlands additionally <ul style="list-style-type: none"> • Dutch Standard 3810N Assurance-opdrachten inzake niet-financiële verslaggeving
		Cement	x	
		Aggregates		

E4.02 Air Quality

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Continuous monitoring is understood as a

		Cement	x	quasi permanent process <ul style="list-style-type: none"> leading to the continuous recording of an output value (= emission) OR <ul style="list-style-type: none"> securing that exceeding of a pre-specified threshold is recorded at any moment in time
		Aggregates		

E4.03 Verification of emission reporting

Applicable to region (s)	Criteria	Applicable sections		Evidence
EU		Concrete		EU: The criterion is also awarded if the plant is subject to the European system of emissions monitoring.
		Cement	x	
		Aggregates		Explanation: Based upon the European system of emissions monitoring, an additional verification is not required. Normally, the emissions have to be monitored by an independent third party that is accredited according to European standard EN 17025. Also the calibration and/or the annual surveillance tests of installed continuous emissions monitoring systems (CEMS) have to be carried out by accredited external bodies. In these cases, an additional external verification of the emissions report is not required. USA:

E4.09 Process and fugitive dust reduction measures

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Examples concrete:

		Cement	x	<ul style="list-style-type: none"> material conveying (e.g. covered or enclosed conveyor belts, or spraying of water) weighing and discharging to mixer and mixing of aggregates, cement and additions (SCMs) (e.g. filters) during post-hardening treatment of concrete products, e.g. during sawing or grid blasting during cleaning hardened concrete from truck mixers filter bag defect alarm device <p>Examples cement:</p> <ul style="list-style-type: none"> material conveying (e.g. covered or enclosed conveyor belts, or spraying of water) appropriate operation of major point dust source filters (clinker cooler, coal mill, cement mills, etc.) controlled by dust monitors or broken bag detectors use of dust filters in material handling areas (e.g. loading and unloading) use of material handling equipment (e.g. bucket elevators) and installations (e.g. silos) filter bag defect alarm device <p>Examples aggregates:</p> <ul style="list-style-type: none"> material conveying (e.g. covered or enclosed conveyor belts, or spraying of water) transfer of aggregates (e.g. covered, enclosed conveyor belts or spraying of water) filter bag defect alarm device
		Aggregates	x	

E5.02 Water scarcity and impact

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<ul style="list-style-type: none"> • WWF Water Risk Filter • WBCSD Global Water Tool • WRI Aqueduct • GRI Standard 303 "Water and Effluents"
		Cement	x	
		Aggregates	x	
Italy		Concrete	x	For Italy additional: <ul style="list-style-type: none"> • Water withdrawal permit (disciplinary)
		Cement	x	
		Aggregates	x	

E5.03 Water monitoring**E5.04 Water target****E5.05 Verification and water reporting**

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<ul style="list-style-type: none"> • GCCA Sustainability Guidelines for the monitoring and reporting of water in cement manufacturing (https://gccassociation.org/wp-content/uploads/2019/03/GCCA-Guidelines-Water-v0.pdf)
		Cement	x	
		Aggregates	x	

E6.02 Biodiversity assessment

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		The following or similar criteria can be used to assess the biodiversity value: <ul style="list-style-type: none"> • Overlap with or close proximity to an internationally or nationally recognized protected area
		Cement	x	
		Aggregates	x	

				<ul style="list-style-type: none"> • Dependence of an internationally or nationally threatened species (e.g. according to the IUCN Red List) • Presence of a internationally or nationally outstanding and/or threatened ecosystem/habitat (e.g. according to KBA Key Biodiversity Area)
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E6.04 Biodiversity impact assessment

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Recognized methodologies for Biodiversity Impact Assessment: <ul style="list-style-type: none"> • Biodiversity Indicator and Reporting System BIRS by IUCN • Net Impact Assessment Methodology by WBCSD
		Cement	x	
		Aggregates	x	

E6.05 No net loss

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Recognized methodologies for Biodiversity Net Impact Assessment: <ul style="list-style-type: none"> • Biodiversity Indicator and Reporting System BIRS by IUCN • Net Impact Assessment Methodology by WBCSD <p>Where legally required or when not possible to reverse impacts locally, compensation measures, including offsetting, may be allowed to mitigate for residual adverse impacts.</p>
		Cement	x	
		Aggregates	x	

E6.05 Actions for nature

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Actions can include for example <ul style="list-style-type: none"> • habitat creation, • habitat management, • improving species populations, • species-specific projects with NGOs/Universities, • nature-related community engagement events e.g. tree planting or building and installing bird/bat boxes on site, • citizen-science monitoring events.
		Cement	x	
		Aggregates	x	

E7.01 Assessment of the availability of secondary materials

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Secondary materials in concrete: <ul style="list-style-type: none"> • Secondary fine material (e.g. fly ash, slag, limestone) added during concrete mixing • Recycled (e.g. concrete based) or secondary (e.g. crystalline slag) sand and aggregates • Returned concrete • Secondary fine materials indirectly added via cement during concrete mixing Secondary materials in cement: <ul style="list-style-type: none"> • Secondary raw materials added to kiln (e.g. fly ash, slag) • Secondary materials added in cement production / grinding (e.g. fly ash, slag, limestone, pozzolana)
		Cement	x	
		Aggregates		

E7.03 Reporting of the use of secondary materials

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

		Cement	x	For Italy additional for cement and concrete: <ul style="list-style-type: none"> Evidences provided for GPP compliance
		Aggregates		

E7.04 Responsible processing of returned concrete

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additional for concrete: <ul style="list-style-type: none"> A copy of the management procedure regarding reuse or recovery of returned concrete
		Cement	x	
		Aggregates		

E7.05 Optimized use of mineral components as alternative raw material, secondary cementitious material or filler

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Secondary material components (mineral components) in clinker and cement: <ul style="list-style-type: none"> Secondary raw materials added to kiln (e.g. fly ash, slag, recycled concrete fines) Secondary materials added in cement production / grinding (e.g. fly ash, slag, limestone, pozzolana) Secondary materials in concrete: <ul style="list-style-type: none"> Secondary fine material (e.g. fly ash, slag, limestone, recycled concrete fines) added during concrete mixing
		Cement	x	
		Aggregates		

E7.06 Optimized use of R-material

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<u>R-material</u> : recycled aggregates, secondary aggregates, reclaimed aggregates.
		Cement		

		Aggregates		<p><u>Recycled aggregate:</u> aggregate resulting from the processing of inorganic or mineral material previously used in construction, typically recycled concrete, bricks or excavation material.</p> <p><u>Secondary aggregate:</u> aggregate of mineral origin derived from an industrial process, e.g. processed slag, china clay stent or other sources with well-proven applicability in concrete.</p> <p><u>Reclaimed aggregate:</u></p> <ul style="list-style-type: none"> • aggregate gained from returned concrete deliveries ("returned concrete") by washing fresh concrete • crushing hardened concrete that has not been previously used in construction, e.g. hardened returned concrete or not delivered concrete products from precast manufacturing
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E8.04 Low emission transportation mode

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	<p>Low CO2 emission transportation vehicles include</p> <ul style="list-style-type: none"> • trucks • barges • trains • yellow machines (excl. forklift) <p>CO2 emission reducing fuels/technologies</p> <ul style="list-style-type: none"> • electric • hydrogen (fuel cells) • methane, methanol • LNG (liquid natural gas) • biodiesel • HVO (hydrotreated vegetable oil)
		Cement	x	
		Aggregates	x	

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

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<ul style="list-style-type: none"> European Union's REACH (registration, evaluation, authorization and restriction of chemicals) regulation or similar. Health Product Declarations
		Cement	x	
		Aggregates		
Italy		Concrete	x	<p>For Italy additional for concrete:</p> <ul style="list-style-type: none"> 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.
		Cement	x	
		Aggregates		

S3.01 Risk analysis

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>List of risks, which can be assessed, not limited to:</p> <ul style="list-style-type: none"> accidents psycho-social risks exposure to health hazards/medical risks
		Cement	x	
		Aggregates	x	

S4.02 Personal record for all employees

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additional:

		Cement	x	<ul style="list-style-type: none"> A sample of training programs/certificates for employees.
		Aggregates	x	

S4.06 Skills development in the workplace

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	List of skill developments, which can contribute to an employees personal development, not limited to: <ul style="list-style-type: none"> Employment of apprentices Drivers training IT training Mental health skills training (e.g stress management) Social work skills training (e.g. communication, team building, leadership) Language training Compliance training
		Cement	x	
		Aggregates	x	

S4.09

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted measures of external adequacy investigation <ul style="list-style-type: none"> Third party audit report Evidence of an existing framework agreement with a global trade union (e.g. copy of agreement, public mentioning by trade union) A valid SA8000 certificate A valid MVO Prestatieladder certificate level III or level IV or level V
		Cement	x	
		Aggregates	x	

B1.01 Local Economy

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Applicable for concrete and recycled aggregate mobile plants. B1.01 need to be fulfilled on company (not plant) level.
		Cement		
		Aggregates	x	

B2.01 Ethical Risk Assessment

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>The following may be used to demonstrate compliance:</p> <ul style="list-style-type: none"> ● Identify the risks of corruption and implement and maintain policies and practices that counter corruption and extortion; ● Ensure its leadership sets an example for anti-corruption and provides commitment, encouragement and oversight for implementation of anti-corruption policies; ● Train employees and representatives in their efforts to eradicate bribery and corruption, and raise the awareness of employees, representatives, contractors and suppliers about corruption and how to counter it; ● Ensure that the remuneration of employees and representatives is appropriate and for legitimate services only; ● Establish and maintain an effective system to counter corruption; ● Encourage employees, partners, representatives and suppliers to report violations of the companies policies and unethical and unfair treatment by adopting mechanisms that enable reporting and follow-up action without fear of reprisal; ● Work to oppose corruption by encouraging others with which the company has
		Cement	x	
		Aggregates	x	

				operating relationships to adopt similar anti-corruption practices.
Italy		Concrete	x	For Italy additional for concrete: <ul style="list-style-type: none"> • a declaration by the software producer/supplier automation software protection against manual changes (plant software that records quantities and qualities of materials) • Number of REN registration (https://www.ilportaledellautomobilista.it/web/portale-automobilista/ricerca-impres-trasporto-merci) (for transport companies) • Valid insurance (RCA and RCT/O) (for transport companies) • Last available compulsory inspection certificate of mixer-trucks (for transport companies) • Concrete-pump boom inspection certificate (for transport companies)
		Cement	x	
		Aggregates	x	

B2.02 Policy or code for ethical business

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	For Italy additional for cement and concrete: <ul style="list-style-type: none"> • a self-declaration by the management about the alignment with Association guidelines (Aitec "Code of ethics", Aitecap "Code of ethics")
		Cement	x	
		Aggregates	x	

B3.01 Innovation

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global	Link to the Innovation Credit Guidelines.	Concrete	x	
		Cement	x	
		Aggregates	x	

C6.01 Weighted average of use of responsible sourced steel reinforcement

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete (precast only)	x	<p>Background</p> <p>The CSC has not developed a dedicated responsible sourcing system for steel production (used for rebars), but recognizes - at different appreciation levels - certificates of dedicated responsible sourcing systems for steel.</p> <p>Accepted responsible sourcing systems for steel are:</p> <ul style="list-style-type: none"> • CARES Sustainable Constructional Steel scheme (75% CSC appreciation level) • Eco Reinforcement Responsible Sourcing Standard, Steel Products for the Reinforcement of Concrete (75% CSC appreciation level) • ResponsibleSteel Certification v3.0 (60% CSC appreciation level) <p>The above factor describes the weight of the certified steel reinforcement in the overall CSC certification system for precast concrete.</p> <p>Example: If 80% of the supplied steel rebar is CARES certified, the score is 60% (0.75 [CARES appreciation level] x 80% [CARES certified steel] = 60%). The total weighted average score in C6.01 results in 6% (score of 60% x weight of the criteria C6.01 of 10%).</p>
		Cement		
		Aggregates		

C6.02 Supply chain coverage and Responsible Sourcing Certificate for steel reinforcement suppliers

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete (precast only)	x	Accepted responsible sourcing systems for steel are: <ul style="list-style-type: none"> • CARES Sustainable Constructional Steel scheme • Eco Reinforcement Responsible Sourcing Standard, Steel Products for the Reinforcement of Concrete • ResponsibleSteel Certification v3.0
		Cement		
		Aggregates		

C7.01 Weighted average of use of certified slag

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Background Slag used in cement production is a by-product of pig iron production, the first major process step in steel production. The CSC has not developed a dedicated responsible sourcing system for steel production (covering the scope of slag), but recognizes - at different appreciation levels - certificates of dedicated responsible sourcing systems for steel. Accepted responsible sourcing systems for steel are: <ul style="list-style-type: none"> • CARES Sustainable Constructional Steel scheme (75% CSC appreciation level) • Eco Reinforcement Responsible Sourcing Standard, Steel Products for
		Slag (in place of cement)	x	
		Aggregates		

				<p>the Reinforcement of Concrete (75% CSC appreciation level)</p> <ul style="list-style-type: none"> • ResponsibleSteel Certification v3.0 (60% CSC appreciation level) <p>The above factor describes the weight of the certified slag in the overall CSC Slag Grinder certification system.</p> <p>Example: If 80% of the supplied slag is CARES certified, the score is 60% ($0.75 \text{ [CARES factor]} \times 80\% \text{ [CARES certified slag]} = 60\%$). The total weighted average score in C7.01 results in 27% (score of 60% x weight of the criteria C7.01 of 45%).</p>
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