



# Concrete Sustainability Council

## Technical Manual - Version 2.1 (Annex)

The Concrete Sustainability Council (CSC)

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### 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"> <li>• UNILAV, the compulsory on line document to communicate a new employee (for plant employees)</li> <li>• DOL (Durc On Line), certification of social contributions compliance (for transport companies employees)</li> <li>• 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)</li> <li>• evidence of the salary payments (for transport companies employees)</li> <li>• FPC certificate for concrete plants</li> <li>• Environmental authorization for concrete plants (AUA)</li> </ul>
		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"> <li>• A copy of the ISO37001 certificate</li> </ul> OR <ul style="list-style-type: none"> <li>• Evidence of Administrative responsibility</li> </ul> For Italy additional for concrete: <ul style="list-style-type: none"> <li>• White list inclusion evidence (i.e. screenshot of the public list from district website)</li> </ul>
		Cement	x	
		Aggregates	x	


## P2.01 Human rights

For countries that have legal frameworks that conflict with one of the listed ILO conventions, plants have to deliver alternative evidence as listed below:

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	
		Cement	x	
		Aggregates	x	
	<b>Child Labour.</b> Child labour shall not be used. Companies are requested to follow the ILO conventions recommendation of minimum age for admission to employment.	Concrete	x	Signed declaration of compliance with ILO Conventions and proof of internal communication/implementation.
		Cement	x	
		Aggregates	x	
	<b>Forced Labour.</b> Forced or compulsory labour shall not be used.  Employees shall be free to leave employment after reasonable notice.	Concrete	x	Signed declaration of compliance with ILO Conventions and proof of internal communication/implementation.  Provide evidence that explains what is done to prevent forced labour.
		Cement	x	
		Aggregates	x	

	Identity documents should not be withheld by the employer.			Demonstrate that identity documents are not withheld and are provided to the employees on his/her demand.
	<b>Freedom of Assembly and Association</b> 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.  Reasonable alternatives should be offered to employees if restrictions are imposed by law.	Concrete	x	Agenda and minutes of meetings with employees where labour conditions were discussed and actions taken after the meeting.
		Cement	x	
		Aggregates	x	
	<b>Discrimination (Gender equality, Political persuasion, Religious freedom)</b>  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.  Reasonable alternatives should be offered to employees if restrictions are imposed by law.	Concrete	x	Signed 'non - discrimination policy' by the company and proof of internal communication/implementation.
		Cement	x	
		Aggregates	x	

### P3.01 Assessment of potential impact on indigenous people

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		<p>Countries where indigenous peoples issues are irrelevant:</p> <ul style="list-style-type: none"> <li>• Austria</li> <li>• Belgium</li> <li>• Czech Republic</li> <li>• Denmark</li> <li>• Estonia</li> <li>• Germany</li> <li>• Hungary</li> <li>• Ireland</li> <li>• Iceland</li> <li>• Italy</li> <li>• The Netherlands</li> <li>• Poland</li> <li>• Portugal</li> <li>• Slovak Republic</li> <li>• Spain</li> <li>• Switzerland</li> <li>• United Kingdom</li> </ul> <p>Source: <a href="http://www.landmarkmap.org/">http://www.landmarkmap.org/</a> and OECD</p>
		Cement	x	
		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"> <li>• <a href="#">FPIC Framework by Conservation International</a>:</li> <li>• Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities framework by the World Bank: <a href="http://pubdocs.worldbank.org/en/837721522762050108/Environmental-and-Social-">http://pubdocs.worldbank.org/en/837721522762050108/Environmental-and-Social-</a></li> </ul>
		Cement	x	
		Aggregates	x	

				Framework.pdf#page=89&zoom=80
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#### 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"> <li>• <a href="#">Cement Sustainability Initiative (CSI): Guidelines for Environmental &amp; Social Impact Assessment</a>,</li> </ul>
		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"> <li>• Evidence that the CPR (Regulation 305/2011) is implemented for cement and aggregates</li> </ul> AND <ul style="list-style-type: none"> <li>• Evidence that the CLP (Regulation 1272/2008) is implemented for cement</li> </ul>
		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"> <li>• <a href="https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:11300:0::NO::P11300_INSTRUMENT_ID:312331">https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:11300:0::NO::P11300_INSTRUMENT_ID:312331</a></li> </ul>
		Cement		
		Aggregates	x	

### M1.04 Training on responsible sourcing

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

### M1.06 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"> <li>• evidence must be provided for each supplier</li> <li>• self-declaration by the management about the alignment with Association guidelines</li> </ul> <p>OR</p> <p>an evidence of Association membership</p>
		Cement	x	
		Aggregates	x	



### M1.07 Sample check

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		<p>For Recycled Aggregates:</p> <ul style="list-style-type: none"> <li>The producer must have procedures for the acceptance of mineral waste in the form of an "Acceptance Regulations" and must keep them up to date.</li> <li>When hazardous substances are found in the mineral waste, it is the producer's responsibility to handle this adequately and in compliance with all applicable laws in order to prevent any contamination.</li> <li>The Acceptance Regulations must state: <ul style="list-style-type: none"> <li>1) What types of mineral waste are accepted;</li> <li>2) What acceptance criteria are used for this;</li> <li>3) What the maximum permitted levels of contamination are;</li> <li>4) How to deal with rejected batches of mineral waste.</li> </ul> </li> </ul>
		Cement		
		Aggregates	x	
Netherlands				<p>For Recycled Aggregates, accepted evidence:</p> <ul style="list-style-type: none"> <li>BRL Guideline 2506</li> <li>...</li> </ul>

### M2.02 Documented EMS

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



		Cement	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"> <li>1. Definition of environmental targets (mandatory)</li> <li>2. Assignment and description of EMS responsibilities (mandatory)</li> <li>3. Monitoring and documentation of key figures (mandatory) <ul style="list-style-type: none"> <li>○ Consumption recording (water, electricity, oil, gas)</li> <li>○ Proof of waste disposal</li> <li>○ Evaluation / internal monitoring</li> <li>○ Permits, if applicable</li> </ul> </li> <li>4. Scope and factors influencing an EMS <ul style="list-style-type: none"> <li>○ Noise</li> <li>○ Dust</li> <li>○ Waste by type</li> <li>○ Water <ol style="list-style-type: none"> <li>i. Extraction</li> <li>ii. Disposal/ Whereabouts</li> </ol> </li> <li>○ Energy <ol style="list-style-type: none"> <li>i. Electricity</li> <li>ii. Gas</li> <li>iii. Fuel oil</li> <li>iv. Miscellaneous</li> </ol> </li> <li>○ Hygiene and health protection</li> </ul> </li> <li>5. Protective measures against environmental contamination <ul style="list-style-type: none"> <li>○ General measures</li> <li>○ Special measures <ol style="list-style-type: none"> <li>i. Fall arrest systems</li> <li>ii. Sump trays</li> <li>iii. Separator</li> <li>iv. Miscellaneous</li> </ol> </li> </ul> </li> </ol>
		Aggregates	x	

## M2.02 Certified EMS

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

## M3.01 QMS

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

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

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

				Constancy of Performance) at the system level 1, 1+ or 2+ (1 point) Note: no points are awarded for AVCP system level 3 and 4
Netherlands		Concrete	x	For the Netherlands additionally: • KOMO (2 points)
		Cement	x	
		Aggregates	x	
Belgium		Concrete	x	For Belgium additionally: • BENOR (2 points)
		Cement	x	
		Aggregates	x	
Germany		Concrete	x	For Germany additionally: • 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	Documented Health & Safety Management System: Suggested Minimum Requirements  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.  1. Occupational health and safety policy of the company 2. Management tasks within the H&S management system 3. Objectives and measures 4. Organization
		Cement	x	
		Aggregates	x	

				<ul style="list-style-type: none"> <li>a. Organizational chart of the company incl. H&amp;S representative</li> <li>b. Transfer of duties in the area of H&amp;S</li> <li>c. Safety Specialist</li> <li>d. Safety Officers / First Responders</li> <li>e. Company doctor</li> <li>f. Occupational Health and Safety Committee meetings</li> <li>g. Operational Emergency Management</li> </ul> <p>5. Processes</p> <ul style="list-style-type: none"> <li>a. Risk assessment</li> <li>b. Instruction / Training <ul style="list-style-type: none"> <li>i. Instruction matrix</li> <li>ii. Operating instructions</li> <li>iii. Permits</li> <li>iv. Contractor management</li> </ul> </li> <li>c. Training / Further education <ul style="list-style-type: none"> <li>i. Training schedule</li> </ul> </li> <li>d. Plants / Company inspections</li> <li>e. Testing of work equipment <ul style="list-style-type: none"> <li>i. Work equipment register</li> <li>ii. Checklist</li> </ul> </li> <li>f. Hazardous substances <ul style="list-style-type: none"> <li>i. Hazardous substances register</li> <li>ii. Operating instructions</li> </ul> </li> <li>g. Deadline monitoring</li> </ul> <p>6. Occupational health care</p> <ul style="list-style-type: none"> <li>a. Precautionary file</li> </ul> <p>7. H&amp;S Key Figures and Documentation</p> <ul style="list-style-type: none"> <li>a. Accidents with lost days <ul style="list-style-type: none"> <li>i. Accident frequency rate</li> <li>ii. Accident severity rate</li> </ul> </li> <li>b. Accidents without lost days <ul style="list-style-type: none"> <li>i. Accidents involving a visit to the doctor</li> </ul> </li> </ul>
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				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"> <li>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)</li> </ul>
		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"> <li>RI&amp;E assessment <u>if executed by a third party</u> (2 point)</li> <li>OSHAS 18001 (3 points)</li> <li>ISO 45001 (3points)</li> </ul>
		Cement	x	
		Aggregates	x	
Germany		Concrete	x	For Germany additionally: <ul style="list-style-type: none"> <li>Sicherheit mit System (2 points)</li> <li>Sicherheit mit System with additional reference to ISO 45001 (3 points)</li> <li>OHRIS (2 points)</li> <li>Arbeitsschutz mit System (AMS-Bau) (2 Points)</li> <li>Arbeitsschutz mit System (AMS-Bau) with reference to ISO 45001 (3 Points)</li> </ul>
		Cement	x	
		Aggregates	x	
Turkey		Concrete	x	For Turkey additionally: <ul style="list-style-type: none"> <li>GreenHelmet (2 points)</li> </ul>
		Cement	x	
		Aggregates	x	

#### M5.01 Publishing annual performance data (KPIs)

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>Accepted reporting standards are:</p> <ul style="list-style-type: none"> <li>• GRI, both core option and comprehensive option</li> <li>• SASB</li> </ul> <p>The sustainability report (global and every local adaptation) must cover the following subjects:</p> <ul style="list-style-type: none"> <li>• Foreword by the company management</li> <li>• Company profile</li> <li>• Vision/strategy/goals of the company in relation to the at least 5 KPIs mention in M5.01</li> </ul>
		Cement	x	
		Aggregates	x	
Germany		Concrete	x	<p>For Germany additionally:</p> <ul style="list-style-type: none"> <li>• Deutscher Nachhaltigkeitskodex</li> </ul>
		Cement	x	
		Aggregates	x	

## M5.02 Externally verified KPIs

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>Accepted verification standards are:</p> <ul style="list-style-type: none"> <li>• ISAE 3000 (revised) (2 Points)</li> </ul>
		Cement	x	
		Aggregates	x	
Belgium		Concrete	x	<p>For Belgium additionally</p> <p>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</p>
		Cement	x	
		Aggregates	x	



				<ul style="list-style-type: none"> <li>ISO 14016:2000 for environmental KPIs if performed by Certification Bodies holding and ISO 14065 accreditation (1 Point)</li> </ul>
Netherlands		Concrete	x	For the Netherlands additionally <ul style="list-style-type: none"> <li>Dutch Standard 3810N Assurance-opdrachten inzake niet-financiële verslaggeving (2 Points)</li> </ul>
		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"> <li>The BetonBewust benchmark system is accepted as evidence</li> </ul>
Italy		Concrete	x	Accepted benchmarking schemes: <ul style="list-style-type: none"> <li>Federbeton Rapporto di Sostenibilit�</li> <li>written confirmation by Federbeton that the company has contributed to the report</li> </ul>
		Cement	x	
		Aggregates		

### E1.02 Implementation of Life Cycle Analysis (LCA)

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	<p>LCA tools shall comply with ISO 14025/ISO 14040, the following tools are accepted:</p> <ul style="list-style-type: none"> <li>• GABI</li> <li>• SimaPro</li> <li>• GCCA EPD Tool</li> <li>• One Click LCA</li> <li>• ReTHiNK</li> </ul> <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"> <li>• Rekentool Groen Beton</li> </ul>
		Cement	x	
		Aggregates	x	
Belgium		Concrete	x	<p>LCA tools shall comply with ISO 14025/ISO 14040:</p> <ul style="list-style-type: none"> <li>• LCA QUADRANT Tool</li> <li>• Rekentool Groen Beton</li> </ul>
		Cement	x	
		Aggregates	x	

### E1.03 Release of Environmental Product Declarations

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"> <li>• ISO 14025,</li> <li>• ISO 21930</li> </ul>
		Cement	x	
		Aggregates	x	

				<ul style="list-style-type: none"> <li>• EN 15804</li> <li>• ASTM E1991-05 (withdrawn but recent EPDs are accepted)</li> <li>• XP P 01-064/CN (2014) (France)</li> <li>• national equivalents</li> </ul>
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## E2.01 Policy to avoid globally or nationally important sites

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Accepted frameworks: <ul style="list-style-type: none"> <li>• UNESCO Heritage Sites</li> <li>• International Union for Conservation of Nature (IUCN) categories</li> </ul>
		Cement	x	
		Aggregates	x	

## E2.02 Responsible land use

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Evidence 1 Accepted guidelines for quarry reclamation plans: <ul style="list-style-type: none"> <li>• ...</li> </ul> Local requirements, such as <ul style="list-style-type: none"> <li>• Zoning plans</li> <li>• Development Plan</li> <li>• Construction &amp; environmental codes</li> </ul> Evidence 2 Community alignment requirements <ul style="list-style-type: none"> <li>• Proactive addressing of responsible land use including biodiversity towards the community</li> </ul> Evidence for mobile concrete and mobile recycled aggregate plants:  E2.02 is automatically achieved for mobile
		Cement	x	
		Aggregates	x	

				plants (points achieved by default).
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### E3.02 Monitoring of GHG emissions

### E3.04 Public reporting of monitoring results

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete	x	Equivalents to GCCA/CSI-Protocol: • ...
		Cement	x	
		Aggregates	x	

### E3.07 Science based CO2 emission reduction target

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Approved Organizations: • Science Based Target Initiative
		Cement	x	
		Aggregates		

### E3.12 CO<sub>2</sub> emissions

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Accepted verification standards are: • ISAE 3000 (revised)
		Cement	x	
		Aggregates		

### E4.02 Air Quality

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		Concrete		Continuous monitoring is understood as a quasi permanent process <ul style="list-style-type: none"> <li>leading to the continuous recording of an output value (= emission)</li> </ul>
		Cement	x	
		Aggregates		OR <ul style="list-style-type: none"> <li>securing that exceeding of a pre-specified threshold is recorded at any moment in time</li> </ul>

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

**E5.01 Water scarcity and impact**

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

**E5.02 Water monitoring****E5.03 Water target****E5.04 Verification and water reporting**

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

**E5.07 Action for improving the quality of discharged water**

Applicable to region (s)	Criteria	Applicable sections		Evidence



Italy		Concrete	x	For Italy additional: <ul style="list-style-type: none"> <li>Last available certificate reporting values better than limits (across all parameters)</li> </ul>
		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"> <li>Overlap with or close proximity to an internationally or nationally recognized protected area</li> <li>Dependence of an internationally or nationally threatened species (e.g. according to the IUCN Red List)</li> <li>Presence of a internationally or nationally outstanding and/or threatened ecosystem/habitat (e.g. according to KBA Key Biodiversity Area)</li> </ul>
		Cement	x	
		Aggregates	x	

### E6.06 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"> <li>Biodiversity Indicator and Reporting System BIRS by IUCN</li> <li>Net Impact Assessment Methodology by CSI</li> </ul>
		Cement	x	
		Aggregates	x	

### E7 Secondary materials

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

### E7.03 Reporting of the use of secondary materials

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy		Concrete	x	<p>For Italy additional for cement and concrete:</p> <ul style="list-style-type: none"> <li>• Evidences provided for GPP compliance</li> </ul>
		Cement	x	
		Aggregates		

### E7.04 Responsible processing of returned concrete

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

### E8.04 Next generation trucks

Applicable to region (s)	Criteria	Applicable sections		Evidence

Global		Concrete	x	Innovative, CO2 emission reducing drive technologies <ul style="list-style-type: none"> <li>• electric</li> <li>• hydrogen (fuel cells)</li> <li>• methane, methanol</li> <li>• LNG</li> </ul>
		Cement	x	
		Aggregates	x	

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

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global	S2	Concrete	x	<ul style="list-style-type: none"> <li>European Union`s REACH (registration, evaluation, authorization and restriction of chemicals) regulation or similar.</li> <li>Health Product Declarations</li> <li>....</li> </ul>
		Cement	x	
		Aggregates		
Italy	S2	Concrete	x	<p>For Italy additional for concrete:</p> <ul style="list-style-type: none"> <li>Evidence of the product/s registration in the dangerous preparation database by Istituto Superiore di Sanità (ISS) (<a href="https://preparatipericolosi.iss.it/default.aspx">https://preparatipericolosi.iss.it/default.aspx</a>)</li> <li>The producer shall provide a declaration by the management that safety sheets are in compliance with Association guidelines.</li> </ul>
		Cement	x	
		Aggregates		

### S4.02 Personal record for all employees

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy	S3	Concrete	x	<p>For Italy additional:</p> <ul style="list-style-type: none"> <li>A sample of training programs/certificates for employees.</li> </ul>
		Cement	x	
		Aggregates	x	

### S4.09

Applicable to region (s)	Criteria	Applicable sections		Evidence

Global	S4.09	Concrete	x	<p>Accepted measures of external adequacy investigation</p> <ul style="list-style-type: none"> <li>• Third party audit report</li> <li>• Evidence of an existing framework agreement with a global trade union (e.g. copy of agreement, public mentioning by trade union)</li> <li>• A valid SA8000 certificate</li> <li>• A valid MVO Prestatieladder certificate level III or level IV or level V</li> </ul>
		Cement	x	
		Aggregates	x	

**B1.01 Local Economy**

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global	B1.01	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	B2	Concrete	x	<p>The following may be used to demonstrate compliance:</p> <ul style="list-style-type: none"> <li>• Identify the risks of corruption and implement and maintain policies and practices that counter corruption and extortion;</li> <li>• Ensure its leadership sets an example for anti-corruption and provides commitment, encouragement and oversight for implementation of anti-corruption policies;</li> <li>• 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;</li> <li>• Ensure that the remuneration of employees and representatives is appropriate and for legitimate services only;</li> <li>• Establish and maintain an effective system to counter corruption;</li> <li>• 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;</li> <li>• Work to oppose corruption by encouraging others with which the company has</li> </ul>
		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"> <li>• a declaration by the software producer/supplier automation software protection against manual changes (plant software that records quantities and qualities of materials)</li> <li>• Number of REN registration (<a href="https://www.ilportaledellautomobilista.it/web/portale-automobilista/ricerca-impres-trasporto-merci">https://www.ilportaledellautomobilista.it/web/portale-automobilista/ricerca-impres-trasporto-merci</a>) (for transport companies)</li> <li>• Valid insurance (RCA and RCT/O) (for transport companies)</li> <li>• Last available compulsory inspection certificate of mixer-trucks (for transport companies)</li> <li>• Concrete-pump boom inspection certificate (for transport companies)</li> </ul>
		Cement	x	
		Aggregates	x	

## B2.02 Policy or code for ethical business

Applicable to region (s)	Criteria	Applicable sections		Evidence
Italy	B2	Concrete	x	For Italy additional for cement and concrete: <ul style="list-style-type: none"> <li>• a self-declaration by the management about the alignment with Association guidelines (Aitec "Code of ethics", Aitecap "Code of ethics")</li> </ul>
		Cement	x	
		Aggregates	x	

## B3.01 Innovation

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global	<a href="#">Link to the Innovation Credit Guidelines.</a>	Concrete	x	
		Cement	x	
		Aggregates	x	