





## **Envision** and

# The Concrete Sustainability Council (CSC)

**The Envision® Sustainable Infrastructure Framework** is a framework that includes 64 sustainability and resilience indicators. Successful use of the framework necessitates collaboration. CSC is a certification system that recognizes achievement across 32 ESG categories in addition to basic requirements. The Factsheet is a tool for training how to use CSC certification for effectively collaborating and communicating sustainability in infrastructure.

#### **Overview of Envision**

The Envision framework supports higher performance through more sustainable choices in infrastructure development. Envision aims to foster a dramatic and necessary improvement in the performance and resiliency of our physical infrastructure across the full dimensions of sustainability.



Learn more about Envision.

Decision-making framework.

Learn more about the Envision criteria.

#### **Overview of The Concrete Sustainability Council - CSC**

By creating a certification system for responsibly sourced concrete, the CSC promotes and demonstrates concrete as a sustainable building material to enable informed decision making in construction. The CSC aims to advance sustainability in the concrete industry by promoting economically, environmentally, socially, and responsibly managed practices. The CSC-certification includes the complete concrete supply chain: cement producers, aggregates suppliers and concrete manufacturers.



**Learn more about** CSC certification system. **Find CSC Certified Companies and Plants.** 

#### **Identifying CSC Certified Products**

The Concrete Sustainability Council Certification (v3.0 and above) is recognized by Envision as a third-party verified sustainability program.

Concrete suppliers who have achieved CSC certification can be identified by their CSC certificate

The table below identifies Envision credits where CSC Certificates are recognized and/or have the potential to contribute to the evaluation criteria.

<b>Envision Credits</b>	CSC Certificate Level	<b>Envision Levels of Achievement</b>
RA1.1 Support Sustainable Procurement Practices	Gold and Platinum	Improved, Enhanced, Superior and Conserving
RA1.2 Use Recycled Materials	Silver, Gold and Platinum with R-Module certificate	Improved, Enhanced, Superior and Conserving
CR1.1 Reduce Net Embodied Carbon	Silver, Gold and Platinum with CO2-Module certificate	Improved, Enhanced, Superior and Conserving

### RA1.1 Support Sustainable Procurement Practices

**Intent:** Develop sustainable procurement policies and programs to source materials and equipment from manufacturers and suppliers that implement sustainable practices.

**Metric:** The extent of sustainable procurement programs, and the percentage of materials sourced from manufacturers and/ or suppliers that implement sustainable practices.

#### **Identifying CSC Certified Products**

The Concrete Sustainability Council Certification (v3.0 and above) is recognized by Envision as a third-party verified sustainability program and therefore CSC Certificates could contribute to meeting an *Improved, Enhanced, Superior or Conserving* level of achievement for credit RA1.1.

Project teams pursuing a level of achievement for Envision credit RA1.1, must identify the percentage of total project materials sourced from manufacturers and/or suppliers that implement sustainable practices. Materials sourced from manufacturers and/or suppliers that have achieved CSC certification are qualified under Envision to contribute to this percentage.

Concrete suppliers who have achieved CSC certification can be identified by their CSC certificate.

#### **Find CSC Certified Companies and Plants.**

• The CSC certificate has 4 levels: Bronze, Silver, Gold and Platinum • Gold and Platinum levels contribute to the Envision RA1.1 credit.











#### **RA1.2 Use Recycled Materials**

Intent: Reduce the use of virgin natural resources and avoid sending useful materials to landfills by specifying reused materials, including structures, and material with recycled content.

Metric: Percentage of project materials that are reused or recycled. Plants, soil, rock, and water are not included in this credit.

#### **Identifying CSC Certified Products**

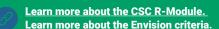
The Concrete Sustainability Council Certification (v3.0 and above) may contribute to meeting an *Improved, Enhanced, Superior or Conserving* level of achievement for credit RA1.2 with the CSC R-Module (1-star to 4-stars respectively).

Envision credit RA1.2 recognizes the percentage of recycled material used on a project. The use of materials from suppliers who have achieved CSC certification with a voluntary R-module could contribute to the requirements for credit RA1.2.

Concrete suppliers who have achieved Silver and above certification levels with a voluntary R-module add-on can be identified by their CSC R-Module certificate.

#### Find CSC Certified Companies and Plants.

- The R-module has 4 levels: 1 Star, 2 Stars, 3 Stars and 4 Stars
- All levels have the potential to contribute to Envision credit RA1.2.







#### **CR1.1 Reduce Net Embodied Carbon**

Intent: Reduce the impacts of material extraction, refinement/manufacture, and transport over the project life.

Metric: Percentage of reduction in net embodied carbon of materials.

#### **Identifying CSC Certified Products**

The Concrete Sustainability Council Certification (v3.0 and above) may contribute to meeting an *Improved, Enhanced, Superior or Conserving* level of achievement for credit CR1.1 with the CSC CO2-Module (1-star to 4-stars respectively).

Envision credit CR1.1 recognizes the percent reduction of the net embodied carbon of materials used in construction and operation. The use of materials from suppliers who have achieved CSC certification with the CO2-module could contribute to the requirements for credit CR1.1.

Concrete suppliers who have achieved Silver and above certification levels with a voluntary CO2-module add-on can be identified by their CSC CO2-Module certificate .

#### Find CSC Certified Companies and Plants.

- The CO<sub>2</sub>-module has 4 levels: 1 Star, 2 Stars, 3 Stars and 4 Stars
- All levels have the potential to contribute to Envision credit CR1.1.

Learn more about the CSC CO<sub>2</sub> Module. Learn more about the Envision criteria.





#### **Envision Credits**

Related Criteria   CSC Credits   Related Criteria   CSC Credits					
Assess relevant community needs, goals, and/or issues  Community linkages  -S1.03 Communication & information - P4.01 ESIA  Potential negative impacts are initigated -S1.02 Social investment -S1.05 limplementation of the noise/ulbration management plan  Community satisfaction is demonstrated by feedback from the stakeholder engagement process  Commitment to safety  Commitment to safety  Commitment to safety  Commitment to safety  Risk analysis, training and security  Safe work practices  Training for health and safety  Secure site  -S3.03 OHS Policy  Secure site  -S3.03 OHS Policy  Programs that promote health and well-being  Salos Access to clean drinking water  QL3.1 Advance Equity & Social Justice  Assessment of social impacts  -P4 Environmental and social impact  Commitment to equity and social justice  P-1 Limplement strategies to reduce volatile organic compounds harmful to human health  -E5.03 Water monitoring  Lidentification of areas of high ecological value  -E6.03 Elidiversity management personable land use  -E6.02 High biodiversity value area assessment of second bloom to the noise/vibration management plan is surface water or groundwater quality  Learning procedure for the local community  -E3.03 Feedback and complaints procedure for the local community  -E3.03 Preventive actions -S3.09 Recording of incidents -S3.09 Recording of incidents -S3.09 Corective actions -S3.09 Recording of incidents -S3.09 Recording of incidents -S3.09 Recording of incidents -S3.09	Related Criteria	CSC Credits	Related Criteria	CSC Credits	
ecological value   area assessment	QL1.1 Improve Community	y Quality Of Life	NW1.1 Preserve Sites of High Ecological Value		
information P4.01 ESIA  Potential negative impacts are mitigated  S1.02 Social investment S1.05 Implementation of the noise/vibration management plan  Community satisfaction is demonstrated by feedback from the stakeholder engagement process  Commitment to safety  S3.02 Preventive actions sased upon incidents S3.03 Recording of incidents S3.04 Availability of the OHS policy  Safe work practices  Training for health and safety  S6.03 Social intesting S6.03 Recording of incidents S6.	•	• P4.01 ESIA	- C	,	
Sta 10.5 Implementation of the noise/vibration management plan  Community satisfaction is demonstrated by feedback from the Stakeholder engagement process  QL1.3 Improve Construction Safety  Commitment to safety  Commitment to safety  Pathway avoidance  Sa.02 Preventive actions essa.09 Corrective actions essa.09 Corrective actions based upon incidents essa.09 Corrective actions based upon incidents  Sa.09 Sa.01 Risk analysis  As ework practices  Sa.01 Risk analysis  Safe work practices  Sa.01 Risk analysis  Safe work practices  Sa.02 Training essa.01 Availability of the OHS policy  Sacure site  Sa.03 OHS Policy  Programs that promote health and well-being  QL3.1 Advance Equity & Social Justice  Assessment of social impacts  PA Environmental and social impact  Commitment to equity and social justice  Py3 Indigenous peoples rights  PA3.1 Preserve Water Resources  Increased awareness of watershed issues  NW2.4 Protect Surface & Groundwater Quality  ledentify potential impacts to surface water or groundwater quality  Pathway avoidance  Pa4.01 Enhance Functional Habitats  Stating spatial types on or near the project site  Stating spatial types on or near the project site  Stating spatial types on or near the project site  Strategies to reduce air pollutant Emissions  PA4.01 Emission reduction targets  Strategies to reduce air pollutant emissions  PA4.01 Emission reduction targets  Congoing monitoring and processes to maintain performance targets  EA.09 Process and fujitive dust reduction measures  PA3.01 Enhance Functional Habitats  CE0.03 Biodiversity value area assessment  Status further project site  Strategies to reduce air pollutant emissions  PA4.01 Emission reduction from pollutant emissions  PA4.01 Emission reduction from pollutant emissions  PA4.01 Emission reduction from poll	Community linkages	information	Mitigation measures	• E6.03 Biodiversity management/action plan	
Description		<ul> <li>\$1.05 Implementation of the noise/vibration management</li> </ul>	NW2.4 Protect Surface & Groundwater Quality		
Community satisfaction is demonstrated by feetback from the stakeholder engagement process  QL1.3 Improve Construction Safety  Commitment to safety  S3.08 Recording of incidents 93.09 Corrective actions based upon incidents 94.09 Corrective actions based upon incidents 95.30 Risk analysis and security  Safe work practices  S3.01 Risk analysis  Training for health and safety  Programs that promote health and well-being  S3.05 Access to clean drinking water  QL3.1 Advance Equity & Social Justice  Assessment of social impacts  PA Environmental and social Impact  Commitment to equity and social justice  Increased awareness of watershed issues  P4 Environmental and impact  P5.02 Water scarcity and impact  P5.02 Water scarcity and impact  P5.02 Water scarcity and impact  Pathway avoidance  Pathway avoidance  PEathway avo				• E2.02 Responsible land use	
the stakeholder engagement process  QL1.3 Improve Construction Safety  Commitment to safety  P3.02 Preventive actions	demonstrated by feedback from the stakeholder engagement	complaints procedure for	~		
Commitment to safety			Pathway avoidance		
+ S3.08 Recording of incidents + S3.09 Corrective actions based upon incidents  Risk analysis, training and security  Safe work practices  Training for health and safety  Secure site  Programs that promote health and well-being  Programs that promote health and well-being  CQL3.1 Advance Equity & Social Justice  Assessment of social impacts  Commitment to equity and social justice  Programs that programs the continuation of social justice  Assessment of social justice  Pagint programs that communities  Pagint programs that promote health and well-being  Strategies to reduce air pollutant emissions  Processes to reduce air pollutant emissions  Processes to maintain performance targets  Prevent introduction of known invasive species  Pr	QL1.3 Improve Construction Safety		NW3.1 Enhance Functional Habitats		
Risk analysis, training and security  Safe work practices  Training for health and safety  Secure site  Programs that promote health and well-being  Programs that promote health and well-being  Assessment of social impacts  Commitment to equity and social justice  Commitment to equity and social justice  Indigenous communities  Passes y Sa. 11 Risk analysis  Sage work practices  Sa. 31 No fatality  Sa. 32 A Availability of the OHS policy  Sacure site  Sa. 33 OHS Policy  Sa. 34 Availability of the OHS policy  CR1.3 Reduce Air Pollutant Emissions  Meets air quality standards and regulations targets  Strategies to reduce air pollutant emissions  Strategies to reduce air pollutant emissions  PA Environmental and social impact  Ongoing monitoring and processes to maintain performance targets  Indigenous communities  Pa Indigenous peoples rights  RA3.1 Preserve Water Resources  Increased awareness of watershed issues  Mitigation measures  * E6.03 Biodiversity management/action plan  * E6.05 No net loss  * NW3.4 Control Invasive Species  * Prevent introduction of known invasive species  * CR1.3 Reduce Air Pollutant Emissions  * E4.01 Emission reduction targets  * E4.08 Clean air silos  * E4.09 Process and fugitive dust reduction measures  Ongoing monitoring and processes to maintain performance targets  * E4.04 Nox emissions  * E4.05 SOx emissions  * E4.05 Dox emissions  * E4.05 Dox emissions  * E4.06 Dust emissions  * E4.07 Mercury emissions  * E4.07 Mercury emissions  * E4.07 Mercury emissions  * E4.07 Mercury emissions  * E5.02 Water scarcity and impact  * E5.02 Water scarcity and impact  * E5.03 Water monitoring	Commitment to safety	<ul><li>S3.08 Recording of incidents</li><li>S3.09 Corrective actions</li></ul>		,	
Risk analysis, training and security  Safe work practices  - S3.11 No fatality  - S3.07 Training - S3.07 Training - S3.04 Availability of the OHS policy  Secure site  - S3.03 OHS Policy  Programs that promote health and well-being  - S3.05 Access to medical treatment - S3.06 Access to clean drinking water   QL3.1 Advance Equity & Social Justice  Assessment of social impacts  - P4 Environmental and social Impact  - P2 Human rights  - P3 Indigenous peoples rights  RA3.1 Preserve Water Resources  Increased awareness of watershed issues  - S3.01 Risk analysis - E6.05 No net loss  NW3.4 Control Invasive Species  - E6.03 Biodiversity management/action plan  - E4.01 Emission reduction  - E4.09 Process and fugitive dust reduction measures  - E4.09 Process and fugiti			Mitigation measures		
Training for health and safety  S3.07 Training S3.04 Availability of the OHS policy  Secure site  Programs that promote health and well-being  CR1.3 Reduce Air Pollutant Emissions  Strategies to reduce air pollutant emissions  Strategies to reduce air pollutant emissions  PE4.01 Emission reduction targets  Strategies to reduce air pollutant emissions  PE4.08 Clean air silos FE4.09 Process and fugitive dust reduction measures  Ongoing monitoring and processes to maintain performance targets  Prevent introduction of known invasive species  PE4.01 Emission reduction targets  FE4.08 Clean air silos FE4.09 Process and fugitive dust reduction measures  Ongoing monitoring and processes to maintain performance targets  PE4.04 NOx emissions FE4.05 SOx emissions FE4.06 Dust emissions  FE4.07 Mercury emissions  FE4.07 Mercury emissions  FE4.07 Mercury emissions  FE5.02 Water scarcity and impact EE5.03 Water monitoring		• S3.01 Risk analysis		• E6.05 No net loss	
Secure site  - \$3.03 OHS Policy  Programs that promote health and well-being  - \$3.05 Access to medical treatment	Safe work practices	• S3.11 No fatality			
Secure site  - S3.03 OHS Policy  Programs that promote health and well-being  - S3.05 Access to medical treatment - S3.06 Access to clean drinking water  - S3.06 Access to clean drinking water  - S3.06 Access to clean drinking water  - S4.08 Clean air silos - E4.09 Process and fugitive dust reduction measures  - S4.09 Process and fugitive dust reduction measures  - P4 Environmental and social Impact  - P4 Environmental and social Impact  - P2 Human rights  - P3 Indigenous peoples rights  - P3 Indigenous peoples rights  - P3 Indigenous peoples rights  - E5.02 Water scarcity and impact - E5.03 Water monitoring	Training for health and safety	• S3.04 Availability of the OHS			
Programs that promote health and well-being  • S3.05 Access to medical treatment • S3.06 Access to clean drinking water  • P4 Environmental and social Impact  • P2 Human rights • P3 Indigenous peoples rights  • P3 Indigenous peoples rights  • E5.02 Water scarcity and watershed issues  • E5.03 Water monitoring  • S3.05 Access to medical tregulations  • E4.08 Clean air silos • E4.09 Process and fugitive dust reduction measures  • E4.04 NOx emissions • E4.05 SOx emissions • E4.06 Dust emissions • E4.07 Mercury emissions			CR1.3 Reduce Air Pollutant Emissions		
• S3.06 Access to clean drinking water  OL3.1 Advance Equity & Social Justice  Assessment of social impacts  Ongoing monitoring and processes to maintain performance targets  Implement strategies to reduce arrepollutant emissions  • E4.09 Process and fugitive dust reduction measures  Ongoing monitoring and processes to maintain performance targets  • E4.04 NOx emissions • E4.05 SOx emissions • E4.06 Dust emissions  • E4.07 Mercury emissions  Implement strategies to reduce volatile organic compounds harmful to human health  • P3 Indigenous peoples rights  RA3.1 Preserve Water Resources  Increased awareness of watershed issues  • E5.02 Water scarcity and impact • E5.03 Water monitoring					
Assessment of social impact  P4 Environmental and social Impact  P2 Human rights  P3 Indigenous peoples rights  P3 Indigenous peoples rights  P4 Environmental and social performance targets  P5 Indigenous peoples rights  P6 Indigenous peoples rights  P8 Indigenous peoples rights  P9 Indigenous peoples rights  P1 Indigenous peoples rights  P3 Indigenous peoples rights  P5 Indigenous peoples rights  P6 Indigenous peoples rights  P8 Indigenous peoples rights  P9 Indigenous peoples rights  P8 Indigenous peoples rights  P8 Indigenous peoples rights  P8 Indigenous peoples rights	and well-being	• S3.06 Access to clean		• E4.09 Process and fugitive	
Assessment of social impact  P4 Environmental and social impact  P5 Human rights  P2 Human rights  P3 Indigenous peoples rights  P3 Indigenous peoples rights  P4 Environmental and social performance targets  P6 Human rights  P8 Indigenous peoples rights  P8 Indigenous peoples rights  P8 Indigenous peoples rights  P8 Indigenous peoples rights  P6 Human rights  P7 Human rights  P6 Human rights  P6 Human rights  P6 Human rights  P7 Human rights  P6 Human rights  P7 Human rights  P7 Human rights  P7 Human rights  P8 Human rights  P	QL3.1 Advance Equity & Social Justice				
volatile organic compounds harmful to human health  Indigenous communities  P3 Indigenous peoples rights  RA3.1 Preserve Water Resources  Increased awareness of watershed issues  • E5.02 Water scarcity and impact • E5.03 Water monitoring	Assessment of social impacts		•	• E4.06 Dust emissions	
Indigenous communities  • P3 Indigenous peoples rights  RA3.1 Preserve Water Resources  Increased awareness of watershed issues  • E5.02 Water scarcity and impact • E5.03 Water monitoring	, ,	• P2 Human rights	volatile organic compounds	• E4.07 Mercury emissions	
Increased awareness of watershed issues  • E5.02 Water scarcity and impact • E5.03 Water monitoring	Indigenous communities	• P3 Indigenous peoples rights			
watershed issues impact • E5.03 Water monitoring	RA3.1 Preserve Water Resources				
		impact			
	Water resource management				



To learn more, visit the **Concrete Sustainability Council Website** or send an email to: info@csc.eco



