



# Concrete Sustainability Council

## R-Module (Version 2.1)

The Concrete Sustainability Council (CSC)

Rue de la Cité 1  
1204 Geneva  
Switzerland

<https://www.csc.eco/>

10.10.2022



## Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>R-Module</b>	<b>2</b>
R1 - Responsible Sourcing	2
R2 - Traced R-Material Supply	3
R3 - Recycled Material Consumption	4
R4 - Quality management	6
R5 - Minimum Recycled Material Content	7



# R-Module

## R1 - Responsible Sourcing

### Aim

To ensure that responsible sourcing is appropriately addressed.

### Total points achievable for this credit

**Concrete:** This credit is a prerequisite for obtaining the CSC R-Module. No points can be achieved for this credit.

### R1.01 CSC Certification

#### Criterion Type

Plant

#### Points achievable for this criterion

**Concrete:** 0 points

The concrete plant is CSC certified at the level Silver or higher.

#### Required evidence

CSC certificate at the level Silver or higher

## R2 - Traced R-Material Supply

### Aim

To determine the R-material supply and ensure that all R-materials are from traceable sources.

### Total points achievable for this credit

**Concrete:** This credit is a prerequisite for obtaining the CSC R-Module. No points can be achieved for this credit.

### R2.01 Traced R-material supply

#### Criterion Type

Plant

#### Points achievable for this criterion

**Concrete:** 0 points

The plant must list their R-material sources,

- R-material that is produced (e.g. via a mobile crusher) from own returned concrete
- Materials supplied from third parties

and demonstrate that  $\geq 98\%$  by mass of these R-materials come from traceable sources.

The amount of returned concrete that is recycled on site in a dedicated recycling plant prior to hardening does not need to be included.

#### Required evidence

Detailed R-material list of the year  $n-1$  (= full calendar year prior to R product certification) providing full clarification of the source of the R-material used (internal and external sources), see the annex.

#### AND

Written declaration by senior management that the list is complete.

#### OR

If the plant has started operations less than a year ago, the credit can be achieved pending the provision of a final evidence:

Detailed R-material list since the start of operations providing full clarification of the source of the R-material used (internal and external sources), see the annex.

#### AND

Written declaration by senior management that the list is complete and confirmation that a complete full year material list will be provided to the auditor once the first full year is completed.

## R3 - Recycled Material Consumption

### Aim

To ensure that the recycled material(R-material) consumption is correctly captured.

This credit determines the RA content of the R-concrete and hence its CSC certified labelling.

### Total points achievable for this credit

**Concrete:** This credit is a prerequisite for obtaining the CSC R-Module. No points can be achieved for this credit.

### R3.01 Concrete/binder based materials supplies

#### Criterion Type

Plant

#### Points achievable for this criterion

**Concrete:** 0 points

The plant must provide the following production data:

1. The total amount of concrete or other binder based materials supplied
2. Thereof, the total amount of R-material containing concrete/binder based material supplied
3. Thereof, if applicable, the total amount of CSC certified or other labelled/certified R-concrete/R-binder based material supplied

#### Required evidence

Deliveries (m<sup>3</sup>) referring to the year n-1 (= full calendar year prior to R product certification).

#### AND

Written declaration by senior management that the list is complete.

## R3.02 Amount of R-material used for the Production of R-concrete

### Criterion Type

Plant

### Points achievable for this criterion

**Concrete:** 0 points

The total amount of R-material (in tons) used for the production of CSC certified or other labelled / certified and non-labelled / non-certified R-concrete must be disclosed.

R-materials added to the concrete mix via the cement or as cement substituting addition during concrete mixing (e.g. slag, fly ash, silica fume) are not in the scope of this criterion.

### Required evidence

1. Detailed material list on R-material used during the year n-1 (= full calendar year prior to R product certification) providing resolution down the level of products

**OR**

Batching protocols of all deliveries in the year n-1 of the R-concrete.

**AND**

2. Written declaration by senior management that the evidence provided is complete

## R4 - Quality management

### Aim

To ensure that the all R-materials meet the relevant quality standards.

### Total points achievable for this credit

**Concrete:** This credit is a prerequisite for obtaining the CSC R-Module. No points can be achieved for this credit.

### R4.01 Quality management system (QMS)

#### Criterion Type

Plant

#### Points achievable for this criterion

**Concrete:** 0 points

The company has a documented quality management system in place, see the annex.

#### Required evidence

CSC certificate version 2.1 or later at the level Silver or higher

**OR**

Validation by the auditor that the company has a documented quality management system.

### R4.02 Use of certified recycling material

#### Criterion Type

Plant

#### Points achievable for this criterion

**Concrete:** 0 points

All externally sourced R-material is certified according to the relevant local standard, see the annex.

#### Required evidence

Copy of all valid certificates

## R5 - Minimum Recycled Material Content

### Aim

To ensure that a minimum content of R-material is achieved.

### Total points achievable for this credit

**Concrete:** This credit is a prerequisite for obtaining the CSC R-Module. No points can be achieved for this credit.

### R5.01 Minimum R-material content (Level 1)

#### Criterion Type

Plant

#### Points achievable for this criterion

**Concrete:** 0 points

#### This criterion is required for Level 1.

The R-material content and the level has to be declared for each individual concrete delivery in an appropriate manner (see the annex).

For the minimum R-material content eligible to obtain the CSC R-certification in a given performance class, see the annex.

#### Required evidence

Exemplary sample check of a selection of concrete mix design protocols for concrete supplied carrying the CSC-R certificate (**Level 1**).

The following information of each mix-designs covered by the R-module needs to be uploaded in the CSC Toolbox:

- Distinctive identification number
- R-material content
- Number of stars claimed

R-material content in concrete mix to be confirmed by the delivery slip or a producer confirmation with reference to the delivery slip

#### AND

in case of first time certification:

R-material content for concrete mix design to to be potentially delivered from the concrete plant that is targeting to obtain a CSC R-module. The highest targeted R-material class is decisive

#### AND

Annual compliance declaration by the management (see the annex)

## R5.02 Minimum R-material content (Level 2)

### Criterion Type

Plant

### Points achievable for this criterion

**Concrete:** 0 points

### This criterion is required for Level 2 and below.

The R-material content and the level has to be declared for each individual concrete delivery in an appropriate manner (see the annex).

For the minimum R-material content eligible to obtain the CSC R-certification in a given performance class, see the annex.

### Required evidence

Exemplary sample check of a selection of concrete mix design protocols for concrete supplied carrying the CSC-R certificate (**Level 2**).

The following information of each mix-designs covered by the R-module needs to be uploaded in the CSC Toolbox:

- Distinctive identification number
- R-material content
- Number of stars claimed

R-material content in concrete mix to be confirmed by the delivery slip or a producer confirmation with reference to the delivery slip

### AND

in case of first time certification:

R-material content for concrete mix design to be potentially delivered from the concrete plant that is targeting to obtain a CSC R-module. The highest targeted R-material class is decisive

### AND

Annual compliance declaration by the management (see the annex)

## R5.03 Minimum R-material content (Level 3)

### Criterion Type

Plant

### Points achievable for this criterion

**Concrete:** 0 points

### This criterion is required for Level 3 and below.

The R-material content and the level has to be declared for each individual concrete delivery in an appropriate manner (see the annex).

For the minimum R-material content eligible to obtain the CSC R-certification in a given performance class, see the annex.

### Required evidence

Exemplary sample check of a selection of concrete mix design protocols for concrete supplied carrying the CSC-R certificate (**Level 3**).

The following information of each mix-designs covered by the R-module needs to be uploaded in the CSC Toolbox:

- Distinctive identification number
- R-material content
- Number of stars claimed

R-material content in concrete mix to be confirmed by the delivery slip or a producer confirmation with reference to the delivery slip

### AND

in case of first time certification:

R-material content for concrete mix design to be potentially delivered from the concrete plant that is targeting to obtain a CSC R-module. The highest targeted R-material class is decisive

### AND

Annual compliance declaration by the management (see the annex)

## R5.04 Minimum R-material content (Level 4)

### Criterion Type

Plant

### Points achievable for this criterion

**Concrete:** 0 points

### This criterion is required for Level 4 and below.

The R-material content and the level has to be declared for each individual concrete delivery in an appropriate manner (see the annex).

For the minimum R-material content eligible to obtain the CSC R-certification in a given performance class, see the annex.

### Required evidence

Exemplary sample check of a selection of concrete mix design protocols for concrete supplied carrying the CSC-R certificate (**Level 4**).

The following information of each mix-designs covered by the R-module needs to be uploaded in the CSC Toolbox:

- Distinctive identification number
- R-material content
- Number of stars claimed

R-material content in concrete mix to be confirmed by the delivery slip or a producer confirmation with reference to the delivery slip

### AND

in case of first time certification:

R-material content for concrete mix design to be potentially delivered from the concrete plant that is targeting to obtain a CSC R-module. The highest targeted R-material class is decisive

### AND

Annual compliance declaration by the management (see the annex)