



Concrete Sustainability Council

Technical Manual R-Module Reuse

The Concrete Sustainability Council (CSC)

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R-Module for the reuse of (non-)structural concrete elements

Reuse: Reusing (non-)structural concrete elements refers to the practice of removing concrete components (such as prefabricated panels, beams, or sections of cast-in-place walls) from an existing structure and employing them in a new construction project, while preserving their original form and function as much as possible. The process typically involves careful dismantling, possible refurbishment (such as cleaning or minor repairs), and transportation to a new site where the elements are integrated into a new building or structure. The key aspect of reuse is that the concrete element retains its nature and is used for the same or a similar purpose as before. --> **The scheme "R-Module Reuse" applies.**

Recycling: Recycling concrete, in contrast, involves processing demolished concrete—usually by crushing it—into smaller pieces to produce recycled aggregates. These aggregates can then be used as a substitute for natural aggregates in new concrete production or as material for road bases, backfill, or other construction applications. --> **The scheme "R-Module V2.1" applies.**

R-Module

R1 - Responsible Sourcing

Aim

To ensure that responsible sourcing is appropriately addressed.

Total points achievable for this credit

Concrete: 0 points

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

1. CSC certificate at the level Silver or higher
-

R2 - Traced R-Element Supply

Aim

To determine the R-element supply and ensure that all R-elements are from traceable sources.

Total points achievable for this credit

Concrete: 0 points

R2.01 Traced R-elements supply

Criterion Type

Plant

Points achievable for this criterion

Concrete: 0 points

The plant must list their R-elements sources,

- Concrete construction elements (R-elements), which have been returned in its whole

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

Required evidence

1. Detailed R-element list (by volume) of the year n-1 (= full calendar year prior to R product certification) providing full clarification of the source of the R-elements reused,

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-element list (by volume) since the start of operations providing full clarification of the source of the R-elements 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 element list will be provided to the auditor once the first full year is completed.

R3 - Reused Element Consumption

Aim

To ensure that the reused elements (R-element) consumption is correctly captured.

Total points achievable for this credit

Concrete: 0 points

R3.01 Concrete/binder based element 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 elements supplied
2. Thereof, the total amount of R-elements containing concrete/binder based element supplied
3. Thereof, if applicable, the total amount of CSC certified or other labelled/certified R-concrete/R-binder based elements supplied
4. The amount (by volume) of reused elements supplied.

Required evidence

1. Deliveries (m³) 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-elements used for the Production

Criterion Type

Plant

Points achievable for this criterion

Concrete: 0 points

The total amount of R-elements used for the production of CSC certified or other labelled / certified and non-labelled / non-certified R-concrete must be disclosed.

Required evidence

1. Detailed R-element list (by volume) of reused concrete elements supplied to customers during the year n-1 (= full calendar year prior to R product certification) providing resolution down the level of products.

AND

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

R4 - Quality management

Aim

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

Total points achievable for this credit

Concrete: 0 points

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

1. 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 R-element

Criterion Type

Plant

Points achievable for this criterion

Concrete: 0 points

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

Required evidence

1. Copy of all valid certificates
-

R6 - Reuse of Concrete Elements

Aim

To retain the intrinsic value of reclaimed elements by carefully dismantling and reassembling them in new construction projects.

Total points achievable for this credit

Concrete: 1 point

R6.01 Reuse of Concrete Elements

Criterion Type

Plant

Points achievable for this criterion

Concrete: 1 point

The plant reuses (non-)structural concrete elements for new construction projects. (see the annex).

Required evidence

1. For reused concrete construction elements:

- Copy of the delivery notes
- Number of stars claimed

Reuse of concrete elements to be confirmed by the delivery slip or a producer confirmation with reference to the delivery slip.

AND

Annual compliance declaration by the management (see the annex)
