



Concrete Sustainability Council

Annex: R-Module

The Concrete Sustainability Council (CSC)

Rue de la Cité 1
1204 Geneva
Switzerland

<https://www.concretesustainabilitycouncil.com/>

09.11.2020

Glossary

R-Material	<p>R-Material: recycled aggregates, secondary aggregates, reclaimed aggregates.</p> <p>Recycled aggregate: aggregate resulting from the processing of inorganic or mineral material previously used in construction, typically recycled concrete or bricks.</p> <p>Secondary aggregate: 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>Reclaimed aggregate:</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
Mobile crusher	Mobile equipment used to crush and classify aggregates into different size fractions.
R-Concrete	Concrete consisting of a certain fraction of R-Material

R2.01 Traced R-material supply

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		R-Module	x	Accepted evidence: <ul style="list-style-type: none"> • Invoice or delivery note based tracking of R-material produced on site (by third parties) and third party supplied R-material • Extract from the batching & production system • Documentation via measurements via loader scale, conveyor scale etc. • Volume based on-site calculation
Germany		R-Module	x	
Netherlan		R-Module	x	

R - Annex



ds				
----	--	--	--	--

R4.01 Quality management System

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		R-Module	x	Accepted standards are: ISO 9001 Procedures specified in: EN 206, and the related national application documents ASTM C94 Procedures built in line with EN 206 or ASTM C94
Australia		R-Module	x	Procedures specified in: AS 1379
India		R-Module	x	Procedures specified in: IS 4926

R4.02 Use of certified recycled material

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		R-Module	x	Accepted standards are:
Germany		R-Module	x	Accepted local standards are: <ul style="list-style-type: none"> ● DIN EN 12620 ● DIN EN 206-1, DIN 1045-2 ● DIN 4226-101 ● DIN 4226-102 ● DAfStb-Richtlinie: Beton nach DIN EN 206-1 und DIN 1045-2 mit rezyklierten Gesteinskörnungen nach DIN EN 12620
Netherlands		R-Module	x	Accepted local standards are: <ul style="list-style-type: none"> ● Certified Crushers, recycled materials according to BRL2506 ● Material supplied from external sources certified with KOMO



				• EN 12620
--	--	--	--	------------

R5.01 Minimum R-material content

Applicable to region (s)	Criteria	Applicable sections		Evidence
Global		R-Module	x	<p>Minimum content: 10% of the volume of the aggregate fraction permitted to be fully or partially replaced by R-material</p> <p>Evidence: Actual content to be confirmed by the delivery slip or a producer confirmation with reference to the delivery slip</p>
Country X		R-Module	x	National minimum values to be discussed