

Circular Economy Ontology Network (CEON) - Construction Module

Metadata

IRI

<http://w3id.org/CEON/ontology/construction/>

Title

Circular Economy Ontology Network (CEON) - Construction Module

Creator

Robin Keskisärkkä

Contributor

Eva Blomqvist

Huanyu Li

Mikael Lindecrantz

Date Created

2023-03-16

License

<https://creativecommons.org/licenses/by/4.0/>

Version Iri

<http://w3id.org/CEON/ontology/construction/0.1/>

Version Info

0.1

Preferred Namespace Prefix

construction

Preferred Namespace Uri

<http://w3id.org/CEON/ontology/construction/>

Description

The Product module of CEON (Circular Economy Ontology Network).

Classes

Construction Product ^c	
IRI	http://w3id.org/CEON/ontology/construction/ConstructionProduct
Sub Class Of	product:Product
Super Class Of	FloorPanel^c

Dimensional Deviation^C

IRI <http://w3id.org/CEON/ontology/construction/DimensionalDeviation>

Fire Resistance^C

IRI <http://w3id.org/CEON/ontology/construction/FireResistance>

In Range Of [hasFireResistance^{op}](#)

Named Individuals
[F30ⁿⁱ](#)
[F60ⁿⁱ](#)

Fire Resistance Relation^C

IRI <http://w3id.org/CEON/ontology/construction/FireResistanceRelation>

Sub Class Of [actorODP:ResourceRelation](#)

Floor Panel^C

IRI <http://w3id.org/CEON/ontology/construction/FloorPanel>

Sub Class Of [ConstructionProduct^C](#)

Floor Tile Condition^C

IRI <http://w3id.org/CEON/ontology/construction/FloorTileCondition>

Named Individuals
[condition_badⁿⁱ](#)
[condition_goodⁿⁱ](#)
[condition_mediumⁿⁱ](#)

Floor Tile Condition Relation^C

IRI <http://w3id.org/CEON/ontology/construction/FloorTileConditionRelation>

Sub Class Of [actorODP:ResourceRelation](#)

Product Quality^c

IRI <http://w3id.org/CEON/ontology/construction/ProductQuality>

Named Individuals

[quality_high](#)ⁿⁱ

[quality_low](#)ⁿⁱ

[quality_medium](#)ⁿⁱ

Remaining Use Span^c

IRI <http://w3id.org/CEON/ontology/construction/RemainingUseSpan>

Sub Class Of <http://qudt.org/schema/qudt/Quantity>

Treatment Policy^c

IRI <http://w3id.org/CEON/ontology/construction/TreatmentPolicy>

Object Properties

has accessory^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasAccessory>

has condition^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasCondition>

has conductivity^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasConductivity>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has dimensional deviation^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasDimensionalDeviation>

has distance to recycling plant^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasDistanceToRecyclingPlant>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has fire resistance^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasFireResistance>

Range [FireResistance^c](#)

has height^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasHeight>

Sub Property Of [hasTileDimension^{op}](#)

has market value for new product^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasMarketValueForNewProduct>

Sub Property Of [quantity:hasMarketValue](#)

has market value for reused product^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasMarketValueForReusedProduct>

Sub Property Of [quantity:hasMarketValue](#)

has pedestal grid dimension^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasPedestalGridDimension>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

Super Property Of

- [pedestalGridHeight^{op}](#)
- [pedestalGridThickness^{op}](#)
- [pedestalGridWidth^{op}](#)
- [standardPedestalHeight^{op}](#)

has product category^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasProductCategory>

has recycling potential^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasRecyclingPotential>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has recycling separability^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasRecyclingSeparability>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has resistance to earth^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasResistanceToEarth>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has reuse deconstructability^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasReuseDeconstructability>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has reuse potential^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasReusePotential>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has system weight^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasSystemWeight>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has thickness^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasThickness>

Sub Property Of [hasTileDimension^{op}](#)

has tile dimension^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasTileDimension>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

Super Property Of

- [hasHeight^{op}](#)
- [hasThickness^{op}](#)
- [hasWidth^{op}](#)

has use span remaining^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasUseSpanRemaining>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has use span total^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasUseSpanTotal>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has width^{op}

IRI <http://w3id.org/CEON/ontology/construction/hasWidth>

Sub Property Of [hasTileDimension^{op}](#)

ifc entity^{op}

IRI <http://w3id.org/CEON/ontology/construction/ifcEntity>

pedestal grid height^{op}

IRI <http://w3id.org/CEON/ontology/construction/pedestalGridHeight>

Sub Property Of [hasPedestalGridDimension^{op}](#)

pedestal grid thickness^{op}

IRI <http://w3id.org/CEON/ontology/construction/pedestalGridThickness>

Sub Property Of [hasPedestalGridDimension^{op}](#)

pedestal grid width^{op}

IRI <http://w3id.org/CEON/ontology/construction/pedestalGridWidth>

Sub Property Of [hasPedestalGridDimension^{op}](#)

policy on treatment^{op}

IRI <http://w3id.org/CEON/ontology/construction/policyOnTreatment>

quality of product^{op}

IRI <http://w3id.org/CEON/ontology/construction/qualityOfProduct>

standard pedestal height^{op}

IRI <http://w3id.org/CEON/ontology/construction/standardPedestalHeight>

Sub Property Of [hasPedestalGridDimension^{op}](#)

Datatype Properties

has contaminant^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasContaminant>

Sub Property Of [topDataProperty](#)^{dp}

has dismantling method^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasDismantlingMethod>

Sub Property Of [topDataProperty](#)^{dp}

has installation date^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasInstallationDate>

Sub Property Of [topDataProperty](#)^{dp}

has packaging recommendations after dismantling^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasPackagingRecommendationsAfterDismantling>

Sub Property Of [topDataProperty](#)^{dp}

has policy on treatment^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasPolicyOnTreatment>

has product description^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasProductDescription>

Sub Property Of [topDataProperty](#)^{dp}

has product id^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasProductID>

Sub Property Of [topDataProperty](#)^{dp}

has product name^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasProductName>

Sub Property Of [topDataProperty](#)^{dp}

has production date^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasProductionDate>

Sub Property Of [topDataProperty](#)^{dp}

has production site^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasProductionSite>

Sub Property Of [topDataProperty](#)^{dp}

has refurbishment method^{dp}

IRI <http://w3id.org/CEON/ontology/construction/hasRefurbishmentMethod>

Sub Property Of [topDataProperty](#)^{dp}

is built in^{dp}

IRI <http://w3id.org/CEON/ontology/construction/isBuiltIn>

Sub Property Of [topDataProperty](#)^{dp}

is external^{dp}

IRI <http://w3id.org/CEON/ontology/construction/isExternal>

Sub Property Of [topDataProperty](#)^{dp}

is loadbearing^{dp}

IRI <http://w3id.org/CEON/ontology/construction/isLoadbearing>

Sub Property Of [topDataProperty](#)^{dp}

take back program original manufacturer^{dp}

IRI <http://w3id.org/CEON/ontology/construction/takeBackProgramOriginalManufacturer>

Sub Property Of [topDataProperty](#)^{dp}

take back program other manufacturers^{dp}

IRI <http://w3id.org/CEON/ontology/construction/takeBackProgramOtherManufacturers>

Sub Property Of [topDataProperty](#)^{dp}

technical requirements for take back for recycling^{dp}

IRI <http://w3id.org/CEON/ontology/construction/technicalRequirementsForTakeBackForRecycling>

Sub Property Of [topDataProperty](#)^{dp}

technical requirements for take back for reuse^{dp}

IRI <http://w3id.org/CEON/ontology/construction/technicalRequirementsForTakeBackForReuse>

Sub Property Of [topDataProperty](#)^{dp}

Annotation Properties

contributor^{ap}

IRI <http://purl.org/dc/terms/contributor>

created^{ap}

IRI <http://purl.org/dc/terms/created>

creator^{ap}

IRI <http://purl.org/dc/terms/creator>

description ^{ap}	
IRI	http://purl.org/dc/terms/description
license ^{ap}	
IRI	http://purl.org/dc/terms/license
title ^{ap}	
IRI	http://purl.org/dc/terms/title
preferred namespace prefix ^{ap}	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix
preferred namespace uri ^{ap}	
IRI	http://purl.org/vocab/vann/preferredNamespaceUri
covers requirements ^{ap}	
IRI	http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements

Namespaces

:

<http://w3id.org/CEON/ontology/construction/>

actor

<http://w3id.org/CEON/ontology/actor/>

actorODP

<http://w3id.org/CEON/ontology/actorODP/>

datasheet

<http://w3id.org/CEON/ontology/datasheet/>

dcterms

<http://purl.org/dc/terms/>

material

<http://w3id.org/CEON/ontology/material/>

odp

<http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#>

owl

<http://www.w3.org/2002/07/owl#>

product

<http://w3id.org/CEON/ontology/product/>

prov

<http://www.w3.org/ns/prov#>

quantity

<http://w3id.org/CEON/ontology/quantity#>

rdf

<http://www.w3.org/1999/02/22-rdf-syntax-ns#>

rdfs

<http://www.w3.org/2000/01/rdf-schema#>

vann

<http://purl.org/vocab/vann/>

Legend

c

Classes

op

Object Properties

dp

Datatype Properties

ap

Annotation Properties