DiKon
Digital Konvergens

VERSION 3.0 - October 2024

DiKon Supplement

to the document made by DiKon, BIM7AA and Molio known as

CONSTRUCTION ELEMENT SPECIFICATIONS

– for selected construction elements in building and landscaping models

Arkitema ·· COWI

Sweco Architects | SWECO

AARSLEFF

NCC

MTHøjgaard
Danmark

RAMBØLL

Instruction

Introduction

In order to establish a simple method for defining the contents of mandatory properties of construction elements in a building model at a given time and for a specific ICT service, DiKon has developed a supplement to DiKon and BIM7AA's construction element specifications (in Danish: bygningsdelsspecifikation).

The construction element specifications only describe requirements for property data (LOI level).

The purpose of the supplement is to establish a connection to several of the ICT services described in sections 9.1-9.10, as well as the service regarding sustainability outlined in the Description of Services for Building and Landscape 2018 (EN) (YBL 2018). This supplement adds a few additional property data for the service in section 9.4 Digital design and property data for several of the other ICT services, as well as for 9.33 Sustainability, individual services.

This supplement exclusively handles the information that appears in a building model and does not include other project-related information.

Contents

DiKon's supplement consists of property data related to the four LOI levels 200, 300, 325 and 400 and must be seen in conjunction with the overall LOD DK levels described in DiKon, BIM7AA and Molio's construction element specifications.

For each LOI level, mandatory property data related to the ICT services are specified:
> 9.1 Classification
> 9.4 Digital design
> 9.6 Bill of quantities
> 9.33 Sustainability, individual services

In addition, a number of supplementary property data have been listed, which can be selected on a project-specific basis and as needed, if clearly indicated.

The measurement rules in the publication refer to the applicable Molio measurement rules. Moreover, a mapping to the corresponding CCS properties has been carried out for all relevant property data, serving as a reference.

Use

When entering into agreements between parties in the buildings industry, it is recommended to use this supplement. It allows for clear agreements on the properties that should be included in the delivery of building models, particularly when opting for ICT services from YBL 2018.

When entering into an agreement, it is important to specify that DiKon's supplement is included in the requirements, as there are other possible methods for specifying requirements regarding property data.

Property data specified under LOI levels is mandatory if the specified ICT service in YBL 2018 is selected in conjunction with this supplement.

Comments

DiKon, BIM7AA and Molio are collaborating to further harmonise the requirements for property data related to ICT services.

This supplement is updated on a regular basis, and we welcome any comments or suggestions. They can be mailed to **DIKON** mail@dikon.info.

DiKon supplement – version 3.0
to DiKon, BIM7AA and Molio's construction element specifications

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DiKon supplement
Specification for wall

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Width	Type name Width	Type name Width Location: Storey/floor/level construction structure	Type name Width Location: Storey/floor/level construction structure Contract	CCSTypeName Width - - SubcontractResource.Name
		Fire rating Acoustic rating	Fire rating Acoustic rating	FireRating AcousticRating
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Area: A2_AD	Area: A2_AD	Area: A2_AD	Area: A2_AD	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Area: A2_AD Width: L1.1_AD Material: AD	Area: A2_AD Width: L1.1_AD Material: AD (layered)	Area: A2_AD Width: L1.1_AD Material: AD (layered)	Area: A2_AD Width: L1.1_AD Material: AD (layered), NCB Manufacturer Product name	- - - Manufacturer ModelLabel
Supplementary properties (*selected for the specific project*)				
Contract Area Gross area Volume Gross volume Location: Storey/floor/level	Contract Area Gross area Volume Gross volume Location: Storey/floor/level Fire rating Acoustic rating Thermal transmittance	Contract Area Gross area Volume Gross volume - - - Thermal transmittance	- Area Gross area Volume Gross volume - - - Thermal transmittance	SubcontractResource.Name - - - - - FireRating AcousticRating ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for glass/system walls

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Dimensions	Type name Dimensions	Type name Dimensions Location: Storey/floor/level Construction structure	Type name Dimensions Location: Storey/floor/level Construction structure Contract	CCSTypeName - - - SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Area: A2_AD	Area: A2_AD	Area: A2_AD	Area: A2_AD	-
9.33 Sustainability, Individual services (life cycle assessments, LCA)*				
Area: A2_AD Material: AD	Number: N1, glazing Material: Length: L2, UNA Area: A2, NAA Area: A2, NAB	Number: N1, glazing Material: Length: L2, UNA Area: A2, NAA Area: A2, NAB	Number: N1, glazing Material: Length: L2, UNA Area: A2, NAA Area: A2, NAB Manufacturer Product name	- - - - - Manufacturer ModelLabel
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level Direction	Contract Location: Storey/floor/level Direction Fire rating Acoustic rating Wall thickness Thermal transmittance	Contract - Direction Fire rating Acoustic rating Wall thickness Thermal transmittance	- - Direction Fire rating Acoustic rating Wall thickness Thermal transmittance	- - Direction FireRating AcousticRating - ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for window

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Width: opening size Height: opening size	Type name Width: opening size Height: opening size	Type name Width: opening size Height: opening size Location: Storey/floor/level Fire exit Construction	Type name Width: opening size Height: opening size Location:Storey/floor/level Fire exit Construction Fire rating Acoustic rating Contract	CCSTypeName Width Height - FireExit - FireRating AcousticRating SubcontractResource.Name
		Hardware set	Hardware set	-
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Number: N1_QQA	Number: N1_QQA	Number: N1_QQA	Number: N1_QQA	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Area: A2_QQA Material: UNA, UNC	Area: A2_QQA Number: layers of glass Material: UNA, UNC, NAA	Area: A2_QQA Number: layers of glass Material: UNA, UNC, NAA Circumference of the frame: P1_QQA Glass fraction	Area: A2_QQA Number: layers of glass Material: UNA, UNC, NAA Circumference of the frame: P1_QQA Glass fraction Manufacturer Product name	- - - - - Manufacturer ModelLabel
Supplementary properties (*selected for the specific project*)				
Contract Area Location: Storey/floor/level Direction	Contract Area Location:Storey/floor/level Direction Fire rating Acoustic rating Wall thickness Thermal transmittance	Contract Area - Direction - - Wall thickness Thermal transmittance	- Area - Direction - - Wall thickness Thermal transmittance	ContractWork - - Direction FireRating AcousticRating - ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for door

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**

9.1 Classification*

Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID

9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications

Type name Width: opening size Height: opening size	Type name Width: opening size Height: opening size	Type name Width: opening size Height: opening size Location: Storey/floor/level Fire exit Hardware set Construction Fire rating Acoustic rating	Type name Width: opening size Height: opening size Location: Storey/floor/level Fire exit Hardware set Construction Fire rating Acoustic rating Contract	CCSTypeName Width Height - FireExit - - FireRating AcousticRating SubcontractResource.Name

9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision

Number: N1_QQC	Number: N1_QQC	Number: N1_QQC	Number: N1_QQC	-

9.33 Sustainability, individual services (life cycle assessments, LCA)*

Area: A2_QQC Material: NBA	Area: A2_QQC Material: NBA, NAA	Area: A2_QQC Material: NBA, NAA, UNA	Area: A2_QQC Material: NBA, NAA, UNA Exterior/interior Manufacturer Product name	- - - Manufacturer ModelLabel

Supplementary properties (*selected for the specific project*)

Contract Area Location: Storey/floor/level Direction	Contract Area Location: Storey/floor/level Direction Fire class Acoustic rating Wall thickness Thermal transmittance	Contract Area - Direction - - Wall thickness Thermal transmittance	Contract Area - Direction - - Wall thickness Thermal transmittance	SubcontractResource.Name - - Direction FireRating AcousticRating - ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for floor assembly

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Width	Type name Width	Type name Width Location: Storey/floor/level Construction structure	Type name Width Location: Storey/floor/level Construction structure	CCSTypeName - - -
		Fire rating (for the total structural construction) Acoustic rating (for the total structural construction)	Fire rating (for the total structural construction) Acoustic rating (for the total structural construction) Contract	FireRating AcousticRating SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Area: A2_AC	Area: A2_AC	Area: A2_AC	Area: A2_AC	-
9.33 Sustainability, Individual services (life cycle assessments, LCA)*				
Area: A2_AC Material: BF	Area: A2_AC Material: BF (layered)	Area: A2_AC Material: BF (layered)	Area: A2_AC Material: BF (layered), NCC Manufacturer Product name	- - Manufacturer ModelLabel
Supplementary properties (*selected for the specific project*)				
Contract Area Location: Storey/floor/level	Contract Area Location: Storey/floor/level Fire rating (for the total structural construction) Acoustic rating (for the total structural construction) Thermal transmittance	Contract Area - - - Thermal transmittance	- Area - - - Thermal transmittance	SubcontractResource.Name Area - FireRating AcousticRating ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for ceiling

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
	Type name Thickness	Type name Thickness Location: Storey/floor/level construction structure	Type name Thickness Location: Storey/floor/level construction structure	CCSTypeName - - -
			Contract	SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
	Area: A2_BG	Area: A2_BG	Area: A2_BG	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Area: A2_BG Material: BG	Area: A2_BG Material: BG (layered)	Area: A2_BG Material: BG (layered), UBB	Area: A2_BG Material: BG (layered), NCD, UBB Manufacturer Product name	- - Manufacturer ModelLabel
Supplementary properties (*selected for the specific project*)				
	Contract Area Location: Storey/floor/level Thermal transmittance	Contract Area - Thermal transmittance	- Area - Thermal transmittance	ContractWork - - ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for stair and ramp

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name	Type name Required slope for ramps	Type name Required slope for ramps Location: Storey/floor/level	Type name Required slope for ramps Location: Storey/floor/level Contract	CCSTypeName RequiredSlope - SubcontractResource.Name
		Fire rating	Fire rating	FireRating
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp)	Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp)	Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp)	Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp)	- -
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp) Material: AF, AG	Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp) Material: AF, AG	Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp) Material: AF, AG, ULQ	Number: N1_AF (construction of stair) Number: N1_AG (construction of ramp) Material: AF, AG, ULQ Manufacturer Product name	- - - Manufacturer ModelLabel
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level Fire rating	Contract - -	- - -	SubcontractResource.Name - FireRating

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for railing

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
	Type name Height	Type name Height Location: Storey/floor/level Construction structure	Type name Height Location: Storey/floor/level Construction structure	CCSTypeName - - -
			Contract	SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Length: L1_FQD	Length: L1_FQD	Length: L1_FQD	Length: L1_FQD	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
	Length: L1_FQD Material: FQD	Length: L1_FQD Material: FQD	Length: L1_FQD Material: FQD	- -
Supplementary properties (*selected for the specific project*)				
	Contract Location: Storey/floor/level	Contract -	- -	ContractWork -

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Thickness	Type name Thickness	Type name Thickness Location: Storey/floor/level Construction	Type name Thickness Location: Storey/floor/level Structural construction Contract	CCSTypeName Width - SubcontractResource.Name
		Fire rating Acoustic rating	Fire rating Acoustic rating	FireRating AcousticRating
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Area: A2.1_NCE	Area: A2.1_NCE	Area: A2.1_NCE	Area: A2.1_NCE	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Area: A2.1_NCE Material: AE	Area: A2.1_NCE Material: AE (layered)	Area: A2.1_NCE Material: AE (layered)	Area: A2.1_NCE Material: AE (layered), NCE Manufacturer Product name	- - - -
Supplementary properties (*selected for the specific project*)				
Contract Area Location: Storey/floor/level	Contract Area Location: Storey/floor/level Fire rating Acoustic rating Thermal transmittance	Contract Area - - - Thermal transmittance	- Area - - - Thermal transmittance	SubcontractResource.Name Area - FireRating AcousticRating ThermalTransmittance

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for furniture and fittings

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Thickness	Type name Thickness	Type name Thickness Location: Storey/floor/level Construction structure	Type name Thickness Location: Storey/floor/level Construction structure Contract	CCSTypeName - - - SubcontractResource.Name
Height Width Depth	Height Width Depth	Height Width Depth	Height Width Depth	- - -
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Number: N1_RB	Number: N1_RB	Number: N1_RB	Number: N1_RB	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
	Number: N1_RB Material: RB	Number: N1_RB Material: RB	Number: N1_RB Material: RB	- -
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract -	- - Manufacturer Product name Product type	SubcontractResource.Name - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Room name Area: floor	Room name Area: floor Room number	Room name Area: floor Room number Location: Storey/floor/level Fire exit	Room name Area: floor Room number Location: Storey/floor/level Fire exit	CCSObjectName - CCSSingleLevelID - FireExit
Volume	Volume	Volume	Volume	-
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Area: A2	Area: A2	Area: A2	Area: A2	
Supplementary properties (selected for the specific project)				
Location: Storey/floor/level Programmed area	Location: Storey/floor/level Programmed area Floor surface Ceiling surface Wall surface	- Programmed area Floor surface Ceiling surface Wall surface	- Programmed area Floor surface Ceiling surface Wall surface	- - FloorCovering CelingCovering WallCovering

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for foundation

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name: cross-section Length: linear	Type name: cross-section Length: linear Load-bearing	Type name: cross-section Length: linear Load-bearing Location: Storey/floor/level	Type name: cross-section Length: linear Load-bearing Location: Storey/floor/level Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size Contract	CCSTypeName Length - - CoveringFinish ConcreteSurfaceFinish CompressiveStrength EnvironmentalClass MaxAggregateSize SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Volume (strip): V2_UKE Volume (pad): V2_UKG	Volume (strip): V2_UKE Volume (pad): V2_UKG	Volume (strip): V2_UKE Volume (pad): V2_UKG	Volume (strip): V2_UKE Volume (pad): V2_UKG	- -
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Volume: V2_UKE, V2_UKG Material: UKE, UKG	Volume: V2_UKE, V2_UKG Material: UKE, UKG	Volume: V2_UKE, V2_UKG Material: UKE, UKG Reinforcement volume ratio	Volume: V2_UKE, V2_UKG Material: UKE, UKG Reinforcement volume ratio Concrete compressive strength Exposure class Manufacturer Product name Product type	ReinforcementVolumeRatio CompressiveStrength EnvironmentalClass Manufacturer ModelLabel ModelReference
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Unique ID Placement ID Fire rating Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size	Contract - Unique ID Placement ID Fire rating - - - - - Manufacturer Product name Product type	SubcontractResource.Name - - - FireRating CoveringFinish ConcreteSurfaceFinish CompressiveStrength EnvironmentalClass MaxAggregateSize Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for concrete wall

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Thickness Height Length	Type name Thickness Height Length Load-bearing	Type name Thickness Height Length Load-bearing Location: Storey/floor/level	Type name Thickness Height Length Load-bearing Location: Storey/floor/level Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size Contract	CCSTypeName - - - LoadBearing - ExternalSurfaceType ExternalSurfaceClass CompressiveStrength EnvironmentalClass MaxAggregateSize SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Area (prefab): A2_ULM Volume (in situ): V2_ULM	Area (prefab): A2_ULM Volume (in situ): V2_ULM	Area (prefab): A2_ULM Volume (in situ): V2_ULM	Area (prefab): A2_ULM Volume (in situ): V2_ULM	- -
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Volume: V2_ULM Material: ULM	Volume: V2_ULM Material: ULM	Volume: V2_ULM Material: ULM Reinforcement volume ratio	Volume: V2_ULM Material: ULM Reinforcement volume ratio Concrete compressive strength Exposure class Manufacturer Product name Product type	- - ReinforcementVolumeRatio StrengthClass EnvironmentalClass Manufacturer ModelLabel ModelReference
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Unique ID Placement ID Fire rating Acoustic rating Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size	Contract - Unique ID Placement ID Fire class Acoustic rating - - - - - Manufacturer Product name Product type	SubcontractResource.Name - - - FireRating AcousticRating ExternalSurfaceType ExternalSurfaceClass CompressiveStrength EnvironmentalClass MaxAggregateSize Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for concrete column

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name: cross-section Length	Type name: cross-section Length Load-bearing	Type name: cross-section Length Load-bearing Location: Storey/floor/level	Type name: cross-section Length Load-bearing Location: Storey/floor/level Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size Contract	CCSTypeName - LoadBearing - ExternalSurfaceType ExternalSurfaceClass CompressiveStrength EnvironmentalClass MaxAggregateSize SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Length (prefab): L3_ULD Volume (in situ): V1_ULD Length (in situ): L1.1_ULD	Length (prefab): L3_ULD Volume (in situ): V1_ULD Length (in situ): L1.1_ULD	Length (prefab): L3_ULD Volume (in situ): V1_ULD Length (in situ): L1.1_ULD	Length (prefab): L3_ULD Volume (in situ): V1_ULD Length (in situ): L1.1_ULD	- - -
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Volume: V1_ULD Material: ULD	Volume: V1_ULD Material: ULD	Volume: V1_ULD Material: ULD Reinforcement volume ratio	Volume: V1_ULD Material: ULD Reinforcement volume ratio Concrete compressive strength Exposure class Manufacturer Product name Product type	- - ReinforcementVolumeRatio CompressiveStrength EnvironmentalClass Manufacturer ModelLabel ModelReference
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Unique ID Placement ID Fire rating Surface treatment Surface requirement Compressive strength Exposure class Maximum aggregate size	Contract - Unique ID Placement ID Fire rating - - - - - Manufacturer Product name Product type	SubcontractResource.Name - - - FireRating ExternalSurfaceType ExternalSurfaceClass CompressiveStrength EnvironmentalClass MaxAggregateSize Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for steel column

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name: profile Length	Type name: profile Length Load-bearing	Type name: profile Length Load-bearing Location: Storey/floor/level	Type name: profile Length Load-bearing Location: Storey/floor/level Steel grade Contract	CCSTypeName - - - SteelGrade SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Length: L3_ULD	Length: L3_ULD	Length: L3_ULD	Length: L3_ULD	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Volume: V2_ULD Material: ULD	Volume: V2_ULD Material: ULD	Volume: V2_ULD Material: ULD	Volume: V2_ULD Material: ULD	- -
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Unique ID Placement ID Corrosivity category Fire rating Steel grade	- - Unique ID Placement ID Corrosivity category Fire rating - Manufacturer Product name Product type	SubcontractResource.Name - - - CorrosivityCategory FireRating SteelGrade Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

Specification for concrete slab

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**

9.1 Classification*

| Classification code | Classification code
Type (code/ID) | Classification code
Type (code/ID) | Classification code
Type (code/ID) | CCSClassCode
CCSTypeID |

9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications

| Type name
Thickness | Type name
Thickness
Load-bearing | Type name
Thickness
Load-bearing
Location: Storey/floor/level | Type name
Thickness
Load-bearing
Location: Storey/floor/level
Surface treatment
Surface requirement
Concrete compressive strength
Exposure class
Maximum aggregate size
Contract | CCSTypeName
-
LoadBearing
-
ExternalSurfaceType
ExternalSurfaceClass
CompressiveStrength

EnvironmentalClass
MaxAggregateSize
SubcontractResource.Name |

9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision

| Area: A2_BC | Area: A2_BC | Area: A2_BC | Area: A2_BC | - |

9.33 Sustainability, individual (life cycle assessments, LCA)*

| Volume: V2_BC
Material: BC | Volume: V2_BC
Material: BC | Volume: V2_BC
Material: BC
Reinforcement volume ratio | Volume: V2_BC
Material: BC
Reinforcement volume ratio
Compressive strength
Exposure class
Manufacturer
Product name
Product type | -
-
ReinforcementVolumeRatio
CompressiveStrength
EnvironmentalClass
Manufacturer
ModelLabel
ModelReference |

Supplementary properties (selected for the specific project)

| Contract
Location: Storey/floor/level | Contract
Location: Storey/floor/level | Contract
-
Unique ID
Placement ID
Fire rating
Acoustic rating
Surface treatment
Surface requirement
Concrete compressive strength
Exposure class
Maximum aggregate size | Contract
-
Unique ID
Placement ID
Fire rating
Acoustic rating
-
-
-

-
-
Manufacturer
Product name
Product type | SubcontractResource.Name
-
-
-
FireRating
AcousticRating
ExternalSurfaceType
ExternalSurfaceClass
CompressiveStrength
EnvironmentalClass
MaxAggregateSize
Manufacturer
ModelLabel
ModelReference |

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for concrete beam

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**

9.1 Classification*

Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID

9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications

Type name: cross-section Length	Type name: cross-section Length Load-bearing	Type name: cross-section Length Load-bearing Location: Storey/floor/level	Type name: cross-section Length Load-bearing Location: Storey/floor/level Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size Contract	CCSTypeName - LoadBearing - ExternalSurfaceType ExternalSurfaceClass CompressiveStrength EnvironmentalClass MaxAggregateSize SubcontractResource.Name

9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision

Length (prefab): L3_ULE Volume (in situ): V2_ULE Length (in situ): L1.1_ULE	Length (prefab): L3_ULE Volume (in situ): V2_ULE Length (in situ): L1.1_ULE	Length (prefab): L3_ULE Volume (in situ): V2_ULE Length (in situ): L1.1_ULE	Length (prefab): L3_ULE Volume (in situ): V2_ULE Length (in situ): L1.1_ULE	- - -

9.33 Sustainability, individual services (life cycle assessments, LCA)*

Volume: V2_ULE Material: ULE	Volume: V2_ULE Material: ULE	Volume: V2_ULE Material: ULE Reinforcement volume ratio	Volume: V2_ULE Material: ULE Reinforcement volume ratio Concrete compressive strength Exposure class Manufacturer Product name Product type	- - ReinforcementVolumeRatio CompressiveStrength EnvironmentalClass Manufacturer ModelLabel ModelReference

Supplementary properties (selected for the specific project)

Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Unique ID Placement ID Fire rating Surface treatment Surface requirement Concrete compressive strength Exposure class Maximum aggregate size	Contract - Unique ID Placement ID Fire rating - - - - - Manufacturer Product name Product type	SubcontractResource.Name - - - FireRating ExternalSurfaceType ExternalSurfaceClass CompressiveStrength EnvironmentalClass MaxAggregateSize Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for steel beam

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name: profile Length	Type name: profile Length Load-bearing	Type name: profile Length Load-bearing Location: Storey/floor/level	Type name: profile Length Load-bearing Location: Storey/floor/level Steel grade Contract	CCSTypeName Length - - SteelGrade SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Length: L3_ULE	Length: L3_ULE	Length: L3_ULE	Length: L3_ULE	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Volume: V2_ULE Material: ULE	Volume: V2_ULE Material: ULE	Volume: V2_ULE Material: ULE	Volume: V2_ULE Material: ULE Manufacturer Product name Product type	- - Manufacturer ModelLabel ModelReference
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Unique ID Placement ID Corrosivity category Fire rating Steel grade	- - Unique ID Placement ID Corrosivity category Fire rating - Manufacturer Product name Product type	SubcontractResource.Name - - - CorrosivityCategory FireRating SteelGrade Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for electrical routing

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Dimension	Type name Dimension Centre elevation	Type name Dimension Centre elevation Location: Storey/floor/level	Type name Dimension Centre elevation Location: Storey/floor/level Material Number of compartments Contract	CCSTypeName NorminalSize Elevation - - - SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
	Length (routing, incl. fittings): L1_BH	Length (routing): L2_UBA Number (connectors): N1_UBA	Length (routing): L2_UBA Number (connectors): N1_UBA	- -
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
		Length: L2_UBA Material: UBA	Length: L2_UBA Material: UBA	- -
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level Material	Contract - Material Number of compartments Unique ID Placement ID	- - - - Unique ID Placement ID Manufacturer Product name Product type	SubcontractResource.Name - - - - - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for electrical components

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name	Type name	Type name Elevation Location: Storey/floor/level	Type name Elevation Location: Storey/floor/level Distribution board number Dimensions Contract	CCSTypeName - - - - SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Number: N1	Number: N1	Number: N1	Number: N1	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
	Number: N1_UAA	Number: N1_UAA Material: UAA	Number: N1_UAA Material: UAA	- -
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level Elevation Room number	Contract - - Room number Distribution board number Group number Unique ID Placement ID	- - - Room number - Group number Unique ID Placement ID Manufacturer Product name Product type	SubcontractResource.Name - - - - - - - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for ventilation routing

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**

9.1 Classification*

Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID

9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications

Type name Dimension	Type name Dimension Centre elevation Insulation thickness System	Type name Dimension Centre elevation Insulation thickness System Insulation type Location: Storey/floor/level System Air direction	Type name Dimension Centre elevation Insulation thickness System Insulation type Location: Storey/floor/level System Air direction Air volume Material Contract	CCSTypeName - - - - - - - AirFlowType AirFlowRate - SubcontractResource.Name

9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision

	Length (duct, incl. fittings): L1	Length (duct): L2_WPB Number (fittings): N1_XMF	Length (duct): L2_WPB Number (fittings): N1_XMF	- -

9.33 Sustainability, individual services (life cycle assessments, LCA)*

	Length: L1 Material: WPB	Length: L2_WPB Number: N1_XMF Material: WPB, XMF	Length: L2_WPB Number: N1_XMF Material: WPB, XMF	- - -

Supplementary properties (selected for the specific project)

	Contract Location: Storey/floor/level Air direction Air volume	Contract - - Air volume Material Unique ID Placement ID	- - - - - Unique ID Placement ID Manufacturer Product name Product type	SubcontractResource.Name - AirFlowType AirFlowRate - - - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for ventilation components

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name	Type name System	Type name System Elevation Location: Storey/floor/level	Type name System Elevation Location: Storey/floor/level Air volume Dimensions Contract	CCSTypeName - - - AirFlowRate - SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Number: N1	Number: N1	Number: N1	Number: N1	-
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
	Number: N1_GQA, N1_EZA, N1_HF	Number: N1_GQA, N1_EZA, N1_HF Air volume (m³/h): (GQA) Air volume (m³/h): (EZA) Air volume (m³/h): (HF)	Number: N1_GQA, N1_EZA, N1_HF Air volume (m³/h): (GQA) Air volume (m³/h): (EZA) Air volume (m³/h): (HF)	- - - -
Supplementary properties (selected for the specific project)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level Elevation Room number Air volume	Contract - - Room number Air volume Unique ID Placement ID	- - - Room number - Unique ID Placement ID Manufacturer Product name Product type	SubcontractResource.Name - - - AirFlowRate - - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

![DiKon - Digital Konvergens]

DiKon supplement
Specification for heating and sanitation routing

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name Dimension	Type name Dimension Centre elevation Insulation thickness System	Type name Dimension Centre elevation Insulation thickness System Insulation type Location: Storey/floor/level	Type name Dimension Centre elevation Insulation thickness System Insulation type Location: Storey/floor/level Material Contract	CCSTypeName - - - - - - - SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
	Length (pipes, incl. fittings): L1	Length (pipes): L2_WPA Number (fittings): N1_XMC	Length (pipes): L2_WPA Number (fittings): N1_XMC	- -
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
	Length: L1 Material: WPA	Length: L2_WPA Number: N1_XMC Material: WPA, XMC	Length: L2_WPA Number: N1_XMC Material: WPA, XMC	- - -
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level	Contract - Material Unique ID Placement ID	- - - Unique ID Placement ID Manufacturer Product name Product type	SubcontractResource.Name - - - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for heating and sanitation components

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID)	CCSClassCode CCSTypeID
9.4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
Type name	Type name System	Type name System Elevation Location: Storey/floor/level	Type name System Elevation Location: Storey/floor/level Dimensions Contract	CCSTypeName - - - SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
Number: N1	Number: N1	Number: N1	Number: N1	-
9.33 Sustainability, individual (life cycle assessments, LCA)*				
	Number: N1_ EPE, N1_EPD, N1_CPA, N1_HD	Number: N1_ EPE, N1_EPD, N1_CPA, N1_HD Dimension: (EPE) Impact: (EPD) Volume: (CPA) Weight: (HD)	Number: N1_ EPE, N1_EPD, N1_CPA, N1_HD Dimension: (EPE) Impact: (EPD) Volume: (CPA) Weight: (HD)	- - - - -
Supplementary properties (*selected for the specific project*)				
Contract Location: Storey/floor/level	Contract Location: Storey/floor/level Elevation Room number	Contract - - Room number Unique ID Placement ID	- - - Room number Unique ID Placement ID Manufacturer Product name Product type	SubcontractResource.Name - - - - - Manufacturer ModelLabel ModelReference

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

DiKon supplement
Specification for recesses and openings

Version 2024-09-07

LOI 200	LOI 300	LOI 325	LOI 400	CCS properties**
9.1 Classification*				
Classification code	Classification code Type (code/ID)	Classification code Type (code/ID)	Classification code Type (code/ID) Unique ID (Code/ID)	CCSClassCode CCSTypeID
9 .4 Digital design* – Properties with a grey background from DiKon/BIM7AA/Molio's construction element specifications				
	Type name Width Height Depth Diameter	Type name Width Height Depth Diameter Professional discipline	Type name Width Height Depth Diameter Professional discipline Contract	CCSTypeName Width Height Depth Diameter Purpose SubcontractResource.Name
9.6 Bill of quantities* – Refer to Molio's measurement rules (A310), latest revision				
9.33 Sustainability, individual services (life cycle assessments, LCA)*				
Gross volume[1]: V1	Gross volume: V1 Material: ULK ULM	Gross volume: V1 Material: ULK ULM	Gross volume: V1 Material: ULK ULM	- - - -
Supplementary properties (*selected for the specific project*)				
Type name Width Height Depth Diameter Contract	- - - - - Contract Fire rating Acoustic rating Professional discipline	- - - - - Contract Fire rating Acoustic rating - Unique ID Placement ID	- - - - - - Fire rating Acoustic rating - Unique ID Placement ID	- - - - - - FireRating AcousticRating - - -

*Property data specified under LOI is mandatory for each construction element if the specified ICT service in YBL 2018 is selected in conjunction with LOD DK levels.

**CCS properties are an indicative mapping of properties.

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[1] Included only if the construction takes place on the construction site and if the construction site, including waste, is included in the LCA calculation.