

## Solibri Report

Model Name	0000 1 FED M3001 Version: 24.12
Checker	vgiannakopoulos@politecnica.it
Organization	POLITECNICA INGEGNERIA E ARCHITETTURA SOC. COOP.
Time	28/08/2025 12:37:40
0000_1_IDR_M3001 (IDR)	Time: 2025-08-28 11:37:44+01:00 Application: Autodesk Revit 2025 (ENU) IFC: IFC4
0000_1_IMP_M3001 (IMP)	Time: 2025-08-27 15:03:43+01:00 Application: Autodesk Revit 2025 (ENU) IFC: IFC4
0000_1_PRS_M3001 (PRS1)	Time: 2025-08-27 17:28:09 Application: Autodesk Civil 3D 2025 - English IFC: IFC4
0000_1_PRS_M3002 (PRS2)	Time: 2025-08-26 17:37:03+01:00 Application: Autodesk Revit 2025 (ENU) IFC: IFC4
0000_1_STR_M3001 (STR1)	Time: 2025-08-26 17:37:24+01:00 Application: Autodesk Revit 2025 (ENU) IFC: IFC4
0000 1 STR M3002 (STR2)	Time: 2025-08-27 13:15:49 Application: Tekla Structures IFC: IFC4
0000 1 STR M3003 (STR3)	Time: 2025-08-27 18:23:47 Application: Tekla Structures IFC: IFC4
0000 1 STR M3004 (STR4)	Time: 2025-08-27 13:10:26 IFC: IFC4
0000 1 STR M3005 (STR5)	Time: 2025-08-27 13:04:15 IFC: IFC4

Model Checking	Acc	Rej	Maj	Nor	Min	Comment
<b>Model Structure Check</b>				x		
Model Structure	OK			x		
Unique GUID values	OK			x		
Amount of Site Instances				x		
<b>Model Validation</b>		X		x		
Required Property Sets		X		x		
<b>Classificazione oggetti</b>		X		x		
Oggetti non classificati Codice Elemento		X		x		
<b>Clash Detection</b>	OK			x	x	
Clash Detection Matrix	OK			x	x	

# 1. Model Checking

## 1.1. Model Structure Check

### 1.1.1. Model Structure

#### Results

(PRS1) 0000\_1\_PRS\_M3001

#### No Building

##### No Building

The model does not have any building.

#### No Floors

##### No floors

The Model does not have any floor.

(STR3) 0000\_1\_STR\_M3003

#### Components Aren't Related to Floors

##### Reinforcing Bar Components (Accepted)

Reinforcing Bar components, which aren't related to any floor.

**(STR4) 0000\_1\_STR\_M3004**

**Components Aren't Related to Floors**

**Reinforcing Bar Components (Accepted)**

Reinforcing Bar components, which aren't related to any floor.

**(STR5) 0000\_1\_STR\_M3005**

**Components Aren't Related to Floors**

**Reinforcing Bar Components (Accepted)**

Reinforcing Bar components, which aren't related to any floor.

### **1.1.2. Unique GUID values**

**Results**

**(PRS1) 0000\_1\_PRS\_M3001**

**More than one Site exists**

**The model (PRS1) 0000\_1\_PRS\_M3001 has 3 sites (Accepted)**

The model (PRS1) 0000\_1\_PRS\_M3001 has 3 sites. Only one is allowed.

### 1.1.3. Amount of Site Instances

#### Results

##### Project

**(PRS1) Tangenziale Di Fogliano - Due Maestà: Count (3) of the components does not match the requirement: = 1**

Count (3) of the components does not match the requirement: = 1.

## 1.2. Model Validation

### 1.2.1. Required Property Sets

Report: Any

Property sets of {0} components

Property Set	Property
Additional Data	Categories
BillOfQuantityInformation	NetQuantity
	UDM
	Volume
Custom Properties	Sheet File
FILE DESCRIPTION	description
	implementation level
FILE NAME	author
	authorization
	name
	organization
	originating system
	preprocessor version
	time stamp
FILE SCHEMA	schema name
IFC FILE DESCRIPTION	DESCRIPTION
	IMPLEMENTATION LEVEL
IFC FILE NAME	AUTHOR
	AUTHORIZATION
	NAME
	ORGANIZATION
	ORIGINATING SYSTEM
	PREPROCESSOR VERSION
	TIME STAMP
IFC FILE SCHEMA	SCHEMA NAME
Pset_BeamCommon	IsExternal
	LoadBearing
	Roll
	Slope
	Status
Pset_ColumnCommon	IsExternal
	LoadBearing
	Roll

	Slope
	Status
Pset ElementAssemblyCommon	Reference
	Status
Pset IdentificativoOggetto	Codice WBS
	Codice elemento
	ID elemento
Pset IdentificativoProgetto	Codice Intervento
	Fase Progettuale
	Nome Progetto
	Progettista
Pset Localizzazione	Codice Strada
	Comune
	Regione
	Sistema di Coordinate
Pset MechanicalFastenerBolt	HeadShape
	KeyShape
	NutShape
	NutsCount
	ThreadDiameter
	ThreadLength
	WasherShape
	WashersCount
Pset MechanicalFastenerCommon	NominalDiameter
	NominalLength
Pset PlateCommon	IsExternal
	LoadBearing
	Status
Pset ReinforcingBarCommon	BarLength
	BarSpacing
	BendingShapeCode
	NominalDiameter
	Reference
	Status
Pset SlabCommon	Combustible
	Compartmentation
	IsExternal
	LoadBearing
	Status

Pset_WallCommon	Combustible
	Compartmentation
	ExtendToStructure
	IsExternal
	LoadBearing
	Status
Qto_BeamBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	GrossWeight
	Length
	NetSurfaceArea
	NetVolume
	NetWeight
	OuterSurfaceArea
Qto_CableCarrierSegmentBaseQuantities	CrossSectionArea
	Length
	OuterSurfaceArea
Qto_ColumnBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	GrossWeight
	Length
	NetSurfaceArea
	NetVolume
	NetWeight
	OuterSurfaceArea
Qto_DistributionChamberElementBaseQuantities	GrossSurfaceArea
	GrossVolume
	NetSurfaceArea
	NetVolume
Qto_FootingBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	Height
	Length
	NetVolume
	OuterSurfaceArea

	Width
Qto_PileBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	Length
	NetVolume
	OuterSurfaceArea
Qto_PipeSegmentBaseQuantities	GrossCrossSectionArea
	Length
	NetCrossSectionArea
	OuterSurfaceArea
Qto_PlateBaseQuantities	GrossArea
	GrossVolume
	GrossWeight
	NetArea
	NetVolume
	NetWeight
	Perimeter
	SideArea
	Width
Qto_RailingBaseQuantities	Length
Qto_ReinforcingElementBaseQuantities	Length
	Weight
Qto_SlabBaseQuantities	Depth
	GrossArea
	GrossVolume
	GrossWeight
	Length
	NetArea
	NetVolume
	NetWeight
	Perimeter
	SideArea
	Width
Qto_WallBaseQuantities	GrossVolume
	GrossWeight
	Height
	Length
	NetFootprintArea

	NetSideArea
	NetVolume
	NetWeight
	Width
Telecom Address	ElectronicMailAddresses
	FacsimileNumbers
	PagerNumber
	TelephoneNumbers
	WWWHomePageURL

## Results

### Missing Property Values

### Column components

#### Pset\_IdentificativoOggetto - Codice WBS (Rejected)

Column components don't have a value in property Codice WBS in the property set: Pset\_IdentificativoOggetto. The value is required.

*(STR3) 0000\_1\_STR\_M3003*

## **Mechanical Fastener components**

### **Pset\_IdentificativoOggetto - Codice WBS (Rejected)**

Mechanical Fastener components don't have a value in property Codice WBS in the property set: Pset\_IdentificativoOggetto. The value is required.

## **Plate components**

### **Pset\_IdentificativoOggetto - Codice WBS (Rejected)**

Plate components don't have a value in property Codice WBS in the property set: Pset\_IdentificativoOggetto. The value is required.

*(STR3) 0000\_1\_STR\_M3003*

## Reinforcing Bar components

### Pset\_IdentificativoOggetto - Codice WBS (Rejected)

Reinforcing Bar components don't have a value in property Codice WBS in the property set: Pset\_IdentificativoOggetto. The value is required.

*(STR4) 0000\_1\_STR\_M3004, (STR3) 0000\_1\_STR\_M3003, (STR2) 0000\_1\_STR\_M3002*

**Pset\_IdentificativoOggetto - Codice elemento (Rejected)**

Reinforcing Bar components don't have a value in property Codice elemento in the property set: Pset\_IdentificativoOggetto. The value is required.

*(STR4) 0000\_1\_STR\_M3004, (STR3) 0000\_1\_STR\_M3003, (STR2) 0000\_1\_STR\_M3002*

## 1.3. Classificazione oggetti

### 1.3.1. Oggetti non classificati \_Codice Elemento

Report: Any

Property sets of {0} components

Property Set	Property
Additional Data	Categories
BillOfQuantityInformation	NetQuantity
	UDM
	Volume
Custom Properties	Sheet File
FILE DESCRIPTION	description
	implementation level
FILE NAME	author
	authorization
	name
	organization
	originating system
	preprocessor version
	time stamp
FILE SCHEMA	schema name
IFC FILE DESCRIPTION	DESCRIPTION
	IMPLEMENTATION LEVEL
IFC FILE NAME	AUTHOR
	AUTHORIZATION
	NAME
	ORGANIZATION
	ORIGINATING SYSTEM
	PREPROCESSOR VERSION
	TIME STAMP
IFC FILE SCHEMA	SCHEMA NAME
Pset_BeamCommon	IsExternal
	LoadBearing
	Roll
	Slope
	Status
Pset_ColumnCommon	IsExternal
	LoadBearing
	Roll

	Slope
	Status
Pset ElementAssemblyCommon	Reference
	Status
Pset IdentificativoOggetto	Codice WBS
	Codice elemento
	ID elemento
Pset IdentificativoProgetto	Codice Intervento
	Fase Progettuale
	Nome Progetto
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Pset Localizzazione	Codice Strada
	Comune
	Regione
	Sistema di Coordinate
Pset MechanicalFastenerBolt	HeadShape
	KeyShape
	NutShape
	NutsCount
	ThreadDiameter
	ThreadLength
	WasherShape
	WashersCount
Pset MechanicalFastenerCommon	NominalDiameter
	NominalLength
Pset PlateCommon	IsExternal
	LoadBearing
	Status
Pset ReinforcingBarCommon	BarLength
	BarSpacing
	BendingShapeCode
	NominalDiameter
	Reference
	Status
Pset SlabCommon	Combustible
	Compartmentation
	IsExternal
	LoadBearing
	Status

Pset_WallCommon	Combustible
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	ExtendToStructure
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	LoadBearing
	Status
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	GrossSurfaceArea
	GrossVolume
	GrossWeight
	Length
	NetSurfaceArea
	NetVolume
	NetWeight
	OuterSurfaceArea
Qto_CableCarrierSegmentBaseQuantities	CrossSectionArea
	Length
	OuterSurfaceArea
Qto_ColumnBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	GrossWeight
	Length
	NetSurfaceArea
	NetVolume
	NetWeight
	OuterSurfaceArea
Qto_DistributionChamberElementBaseQuantities	GrossSurfaceArea
	GrossVolume
	NetSurfaceArea
	NetVolume
Qto_FootingBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	Height
	Length
	NetVolume
	OuterSurfaceArea

	Width
Qto_PileBaseQuantities	CrossSectionArea
	GrossSurfaceArea
	GrossVolume
	Length
	NetVolume
	OuterSurfaceArea
Qto_PipeSegmentBaseQuantities	GrossCrossSectionArea
	Length
	NetCrossSectionArea
	OuterSurfaceArea
Qto_PlateBaseQuantities	GrossArea
	GrossVolume
	GrossWeight
	NetArea
	NetVolume
	NetWeight
	Perimeter
	SideArea
	Width
Qto_RailingBaseQuantities	Length
Qto_ReinforcingElementBaseQuantities	Length
	Weight
Qto_SlabBaseQuantities	Depth
	GrossArea
	GrossVolume
	GrossWeight
	Length
	NetArea
	NetVolume
	NetWeight
	Perimeter
	SideArea
	Width
Qto_WallBaseQuantities	GrossVolume
	GrossWeight
	Height
	Length
	NetFootprintArea

	NetSideArea
	NetVolume
	NetWeight
	Width
Telecom Address	ElectronicMailAddresses
	FacsimileNumbers
	PagerNumber
	TelephoneNumbers
	WWWHomePageURL

## Results

### Missing Property Values

#### Reinforcing Bar components

##### **Pset\_IdentificativoOggetto - Codice elemento (Rejected)**

Reinforcing Bar components don't have a value in property Codice elemento in the property set: Pset\_IdentificativoOggetto. The value is required.

*(STR4) 0000\_1\_STR\_M3004, (STR3) 0000\_1\_STR\_M3003, (STR2) 0000\_1\_STR\_M3002*

## 1.4. Clash Detection

### 1.4.1. Clash Detection Matrix

#### Results

##### Structural -vs- Structural

##### Soletta in C.A. -vs- Soletta in C.A.

**(STR2) Wall.0.1.1 clashes with (STR2) Wall.0.13.1 (Accepted)**

(STR2) Wall.0.1.1 clashes with (STR2) Wall.0.13.1

Type: Overlapping

Clash Size:

- Length: 2.79 m
- Width: 1.26 m
- Height: 0.27 m
- Volume: 0.63 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR2) Wall.0.1.1 clashes with (STR2) Wall.0.17.1 (Accepted)**

(STR2) Wall.0.1.1 clashes with (STR2) Wall.0.17.1

Type: Overlapping

Clash Size:

- Length: 3.02 m
- Width: 1.28 m
- Height: 0.28 m
- Volume: 0.46 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR2) Wall.0.10.1 clashes with (STR2) Wall.0.13.1 (Accepted)**

(STR2) Wall.0.10.1 clashes with (STR2) Wall.0.13.1

Type: Overlapping

Clash Size:

- Length: 1.33 m
- Width: 0.70 m
- Height: 0.44 m

- Volume: 0.32 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m

- Vertical: 0.20 m

- Volume: -

**(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.10.1 (Accepted)**

(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.10.1

Type: Overlapping

Clash Size:

- Length: 1.43 m

- Width: 0.70 m

- Height: 0.44 m

- Volume: 0.35 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m

- Vertical: 0.20 m

- Volume: -

**(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.14.1 (Accepted)**

(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.14.1

Type: Overlapping

Clash Size:

- Length: 1.16 m

- Width: 0.70 m

- Height: 0.40 m

- Volume: 0.22 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m

- Vertical: 0.20 m

- Volume: -

**(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.17.1 (Accepted)**

(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.17.1

Type: Overlapping

Clash Size:

- Length: 3.60 m

- Width: 1.60 m

- Height: 0.24 m

- Volume: 0.03 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.7.1 (Accepted)**

(STR2) Wall.0.12.1 clashes with (STR2) Wall.0.7.1

Type: Overlapping

Clash Size:

- Length: 1.42 m
- Width: 0.70 m
- Height: 0.42 m
- Volume: 0.30 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR2) Wall.0.14.1 clashes with (STR2) Wall.0.13.1 (Accepted)**

(STR2) Wall.0.14.1 clashes with (STR2) Wall.0.13.1

Type: Overlapping

Clash Size:

- Length: 1.21 m
- Width: 0.70 m
- Height: 0.44 m
- Volume: 0.29 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR2) Wall.0.7.1 clashes with (STR2) Wall.0.13.1 (Accepted)**

(STR2) Wall.0.7.1 clashes with (STR2) Wall.0.13.1

Type: Overlapping

Clash Size:

- Length: 1.27 m
- Width: 0.70 m
- Height: 0.44 m
- Volume: 0.28 m<sup>3</sup>

Tolerance: M  
- Horizontal: 0.20 m  
- Vertical: 0.20 m  
- Volume: -

**Travi in C.A./C.A.P. -vs- Travi in C.A./C.A.P.**

**(STR3) Beam.0.233.1 clashes with (STR3) Beam.0.402.1 (Accepted)**

(STR3) Beam.0.233.1 clashes with (STR3) Beam.0.402.1

Type: Overlapping

Clash Size:

- Length: 0.73 m  
- Width: 0.40 m  
- Height: 1.03 m  
- Volume: 0.00 m<sup>3</sup>

Tolerance: M  
- Horizontal: 0.20 m  
- Vertical: 0.20 m  
- Volume: -

**(STR3) Beam.0.43.1 clashes with (STR3) Beam.0.215.1 (Accepted)**

(STR3) Beam.0.43.1 clashes with (STR3) Beam.0.215.1

Type: Overlapping

Clash Size:

- Length: 0.73 m  
- Width: 0.40 m  
- Height: 1.03 m  
- Volume: 0.01 m<sup>3</sup>

Tolerance: M  
- Horizontal: 0.20 m  
- Vertical: 0.20 m  
- Volume: -

**(STR3) Beam.0.43.1 clashes with (STR3) Beam.0.421.1 (Accepted)**

(STR3) Beam.0.43.1 clashes with (STR3) Beam.0.421.1

Type: Overlapping

Clash Size:

- Length: 0.73 m  
- Width: 0.40 m  
- Height: 1.03 m  
- Volume: 0.01 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR3) Beam.0.83.1 clashes with (STR3) Beam.0.447.1 (Accepted)**

(STR3) Beam.0.83.1 clashes with (STR3) Beam.0.447.1

Type: Overlapping

Clash Size:

- Length: 0.73 m
- Width: 0.40 m
- Height: 1.03 m
- Volume: 0.01 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**(STR3) Beam.0.98.1 clashes with (STR3) Beam.0.447.1 (Accepted)**

(STR3) Beam.0.98.1 clashes with (STR3) Beam.0.447.1

Type: Overlapping

Clash Size:

- Length: 0.73 m
- Width: 0.40 m
- Height: 1.03 m
- Volume: 0.01 m<sup>3</sup>

Tolerance: M

- Horizontal: 0.20 m
- Vertical: 0.20 m
- Volume: -

**Trasversi in C.A./C.A.P. -vs- Plinti e Zattere di Fondazione**

**(STR3) Beam.0.103.1 is inside (STR3) Beam.0.250.1 (Accepted)**

(STR3) Beam.0.103.1 is inside (STR3) Beam.0.250.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m

- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m

- Vertical: 0.50 m

- Volume: -

**(STR3) Beam.0.117.1 is inside (STR3) Beam.0.195.1 (Accepted)**

(STR3) Beam.0.117.1 is inside (STR3) Beam.0.195.1

Type: Inside

Clash Size:

- Length: 0.03 m

- Width: 0.03 m

- Height: 0.14 m

- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m

- Vertical: 0.50 m

- Volume: -

**(STR3) Beam.0.129.1 is inside (STR3) Beam.0.75.1 (Accepted)**

(STR3) Beam.0.129.1 is inside (STR3) Beam.0.75.1

Type: Inside

Clash Size:

- Length: 0.03 m

- Width: 0.03 m

- Height: 0.14 m

- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m

- Vertical: 0.50 m

- Volume: -

**(STR3) Beam.0.139.1 is inside (STR3) Beam.0.75.1 (Accepted)**

(STR3) Beam.0.139.1 is inside (STR3) Beam.0.75.1

Type: Inside

Clash Size:

- Length: 0.03 m

- Width: 0.03 m

- Height: 0.14 m

- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.140.1 is inside (STR3) Beam.0.66.1 (Accepted)**

(STR3) Beam.0.140.1 is inside (STR3) Beam.0.66.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.148.1 is inside (STR3) Beam.0.282.1 (Accepted)**

(STR3) Beam.0.148.1 is inside (STR3) Beam.0.282.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.160.1 is inside (STR3) Beam.0.1.1 (Accepted)**

(STR3) Beam.0.160.1 is inside (STR3) Beam.0.1.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.169.1 is inside (STR3) Beam.0.239.1 (Accepted)**

(STR3) Beam.0.169.1 is inside (STR3) Beam.0.239.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.170.1 is inside (STR3) Beam.0.239.1 (Accepted)**

(STR3) Beam.0.170.1 is inside (STR3) Beam.0.239.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.176.1 is inside (STR3) Beam.0.168.1 (Accepted)**

(STR3) Beam.0.176.1 is inside (STR3) Beam.0.168.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.216.1 is inside (STR3) Beam.0.282.1 (Accepted)**

(STR3) Beam.0.216.1 is inside (STR3) Beam.0.282.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.238.1 is inside (STR3) Beam.0.282.1 (Accepted)**

(STR3) Beam.0.238.1 is inside (STR3) Beam.0.282.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.24.1 is inside (STR3) Beam.0.75.1 (Accepted)**

(STR3) Beam.0.24.1 is inside (STR3) Beam.0.75.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m

- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.256.1 is inside (STR3) Beam.0.312.1 (Accepted)**

(STR3) Beam.0.256.1 is inside (STR3) Beam.0.312.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.270.1 is inside (STR3) Beam.0.255.1 (Accepted)**

(STR3) Beam.0.270.1 is inside (STR3) Beam.0.255.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.28.1 is inside (STR3) Beam.0.1.1 (Accepted)**

(STR3) Beam.0.28.1 is inside (STR3) Beam.0.1.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m

- Volume: -

**(STR3) Beam.0.286.1 is inside (STR3) Beam.0.250.1 (Accepted)**

(STR3) Beam.0.286.1 is inside (STR3) Beam.0.250.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.301.1 is inside (STR3) Beam.0.312.1 (Accepted)**

(STR3) Beam.0.301.1 is inside (STR3) Beam.0.312.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.302.1 is inside (STR3) Beam.0.195.1 (Accepted)**

(STR3) Beam.0.302.1 is inside (STR3) Beam.0.195.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m<sup>3</sup>

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.310.1 is inside (STR3) Beam.0.255.1 (Accepted)**

(STR3) Beam.0.310.1 is inside (STR3) Beam.0.255.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.311.1 is inside (STR3) Beam.0.66.1 (Accepted)**

(STR3) Beam.0.311.1 is inside (STR3) Beam.0.66.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.353.1 is inside (STR3) Beam.0.312.1 (Accepted)**

(STR3) Beam.0.353.1 is inside (STR3) Beam.0.312.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.358.1 is inside (STR3) Beam.0.168.1 (Accepted)**

(STR3) Beam.0.358.1 is inside (STR3) Beam.0.168.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.362.1 is inside (STR3) Beam.0.75.1 (Accepted)**

(STR3) Beam.0.362.1 is inside (STR3) Beam.0.75.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.383.1 is inside (STR3) Beam.0.1.1 (Accepted)**

(STR3) Beam.0.383.1 is inside (STR3) Beam.0.1.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.398.1 is inside (STR3) Beam.0.195.1 (Accepted)**

(STR3) Beam.0.398.1 is inside (STR3) Beam.0.195.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.412.1 is inside (STR3) Beam.0.239.1 (Accepted)**

(STR3) Beam.0.412.1 is inside (STR3) Beam.0.239.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.413.1 is inside (STR3) Beam.0.282.1 (Accepted)**

(STR3) Beam.0.413.1 is inside (STR3) Beam.0.282.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.440.1 is inside (STR3) Beam.0.255.1 (Accepted)**

(STR3) Beam.0.440.1 is inside (STR3) Beam.0.255.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.442.1 is inside (STR3) Beam.0.66.1 (Accepted)**

(STR3) Beam.0.442.1 is inside (STR3) Beam.0.66.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.444.1 is inside (STR3) Beam.0.66.1 (Accepted)**

(STR3) Beam.0.444.1 is inside (STR3) Beam.0.66.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.448.1 is inside (STR3) Beam.0.255.1 (Accepted)**

(STR3) Beam.0.448.1 is inside (STR3) Beam.0.255.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.49.1 is inside (STR3) Beam.0.195.1 (Accepted)**

(STR3) Beam.0.49.1 is inside (STR3) Beam.0.195.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.5.1 is inside (STR3) Beam.0.168.1 (Accepted)**

(STR3) Beam.0.5.1 is inside (STR3) Beam.0.168.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.54.1 is inside (STR3) Beam.0.312.1 (Accepted)**

(STR3) Beam.0.54.1 is inside (STR3) Beam.0.312.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.58.1 is inside (STR3) Beam.0.1.1 (Accepted)**

(STR3) Beam.0.58.1 is inside (STR3) Beam.0.1.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.84.1 is inside (STR3) Beam.0.168.1 (Accepted)**

(STR3) Beam.0.84.1 is inside (STR3) Beam.0.168.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -

**(STR3) Beam.0.9.1 is inside (STR3) Beam.0.239.1 (Accepted)**

(STR3) Beam.0.9.1 is inside (STR3) Beam.0.239.1

Type: Inside

Clash Size:

- Length: 0.03 m
- Width: 0.03 m
- Height: 0.14 m
- Volume: 0.00 m3

Tolerance: L

- Horizontal: 0.50 m
- Vertical: 0.50 m
- Volume: -