USER MANUAL -
REVIT FILES

Table of contents

1. *IC_BSF_SF* 2
2. *IC_BSF_SF B-B* 3
3. *IC_BSF_B+S* 4
4. *IC_BSF* 5

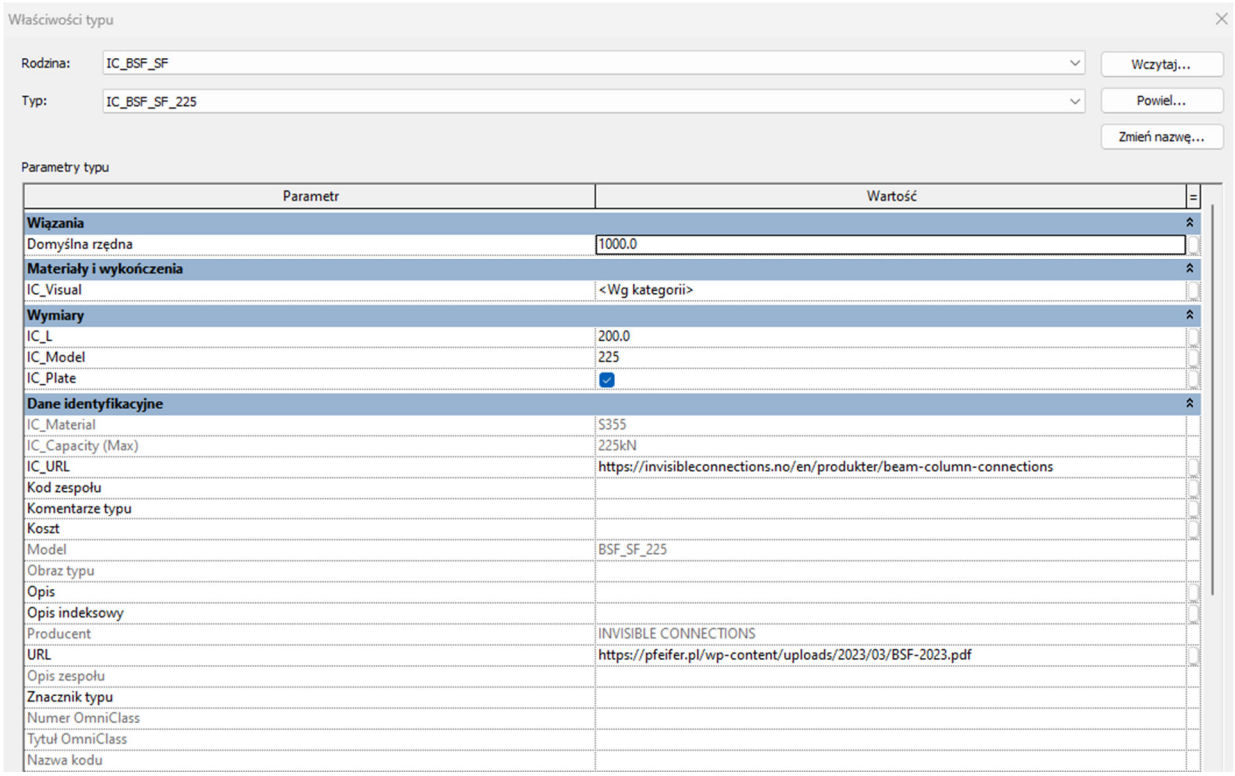
1. IC_BSF_SF

A structural connection element supported by four parameters:

a) IC_Visual – Parameter responsible for assigning material for the element.
b) IC_L – Parameter responsible for the correct length of the bars (depending on the width of the pole).
c) IC_Model - The parameter responsible for assigning the appropriate sizes for the item, the parameter also suggests what available variants we have to choose from, if we select a model that is not in the catalog, the element will tell us by showing the text "OUT OF STOCK" in the Model field.
d) IC_Plate – The parameter responsible for the visibility of the washer at the end of the bar, the parameter should be disabled only if the element occurs on both sides of the column.

In addition, we have auxiliary parameters (Parameters filled in automatically):

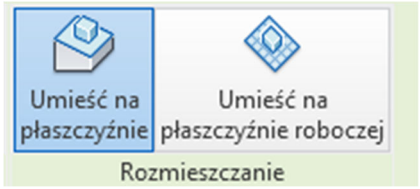
a) IC_Material - The parameter indicates the material of the element.
b) IC_Capacity (Max) – The parameter indicates the maximum load capacity of the component.
c) IC_URL – The parameter indicates a reference to the manufacturer's directory (Invisible Connections).
d) Model – The system parameter indicates the model of the element we have selected.
e) Manufacturer – The system parameter indicates the manufacturer.
f) URL – The system parameter indicates a reference to the manufacturer's directory.



Possible variants of the pole connector:

a) BSF_SF_225
b) BSF_SF_300
c) BSF_SF_450
d) BSF_SF_700
e) BSF_SF_1100

Place the element in any element using the Plane Placement function:



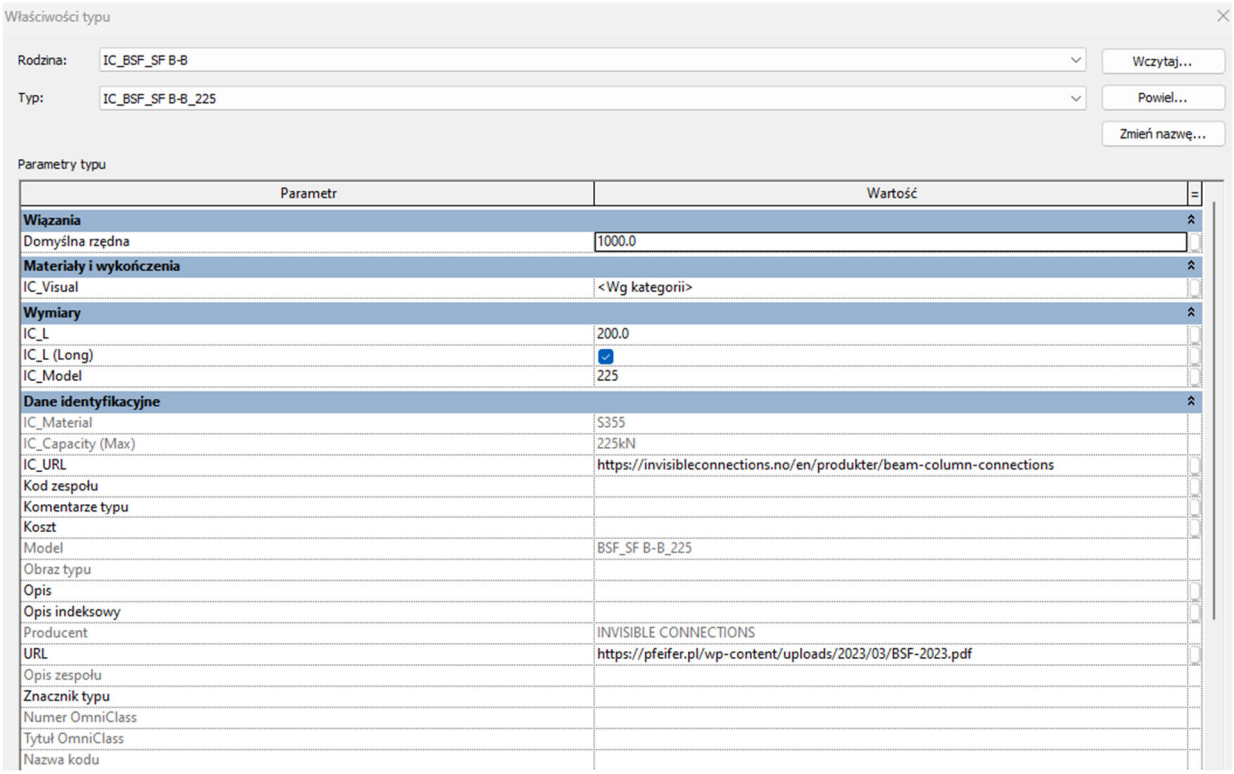
2. IC_BSF_SF B-B

A structural connection element supported by four parameters:

a) IC_Visual – Parameter responsible for assigning material for the element.
b) IC_L – Parameter responsible for the correct length of the bars (dependent on the width of the beam).
c) IC_L (Long) - Parameter responsible for the correct length of the members, which is defined in the catalog (Applies to the beam-butt connection). In the case of the IC_L (Long) checked, the length of the bars is taken from the catalog, in the case of the unchecked box, the length of the bars is taken from the IC_L field.
d) IC_Model - The parameter responsible for assigning the appropriate sizes for the item, the parameter also suggests what available variants we have to choose from, if we select a model that is not in the catalog, the element will tell us by showing the text "OUT OF STOCK" in the Model field.

In addition, we have auxiliary parameters (Parameters filled in automatically):

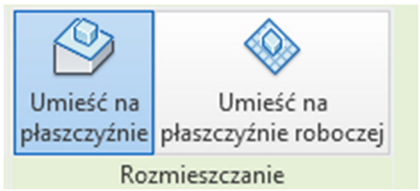
a) IC_Material - The parameter indicates the material of the element.
b) IC_Capacity (Max) – The parameter indicates the maximum load capacity of the component.
c) IC_URL – The parameter indicates a reference to the manufacturer's directory (Invisible Connections).
d) Model – The system parameter indicates the model of the element we have selected.
e) Manufacturer – The system parameter indicates the manufacturer.
f) URL – The system parameter indicates a reference to the manufacturer's directory.



Possible variants of the beam connector:

a) BSF_SF B-B_225
b) BSF_SF B-B_300
c) BSF_SF B-B_450
d) BSF_SF B-B_700
e) BSF_SF B-B_1100

Place the element in any element using the Plane Placement function:



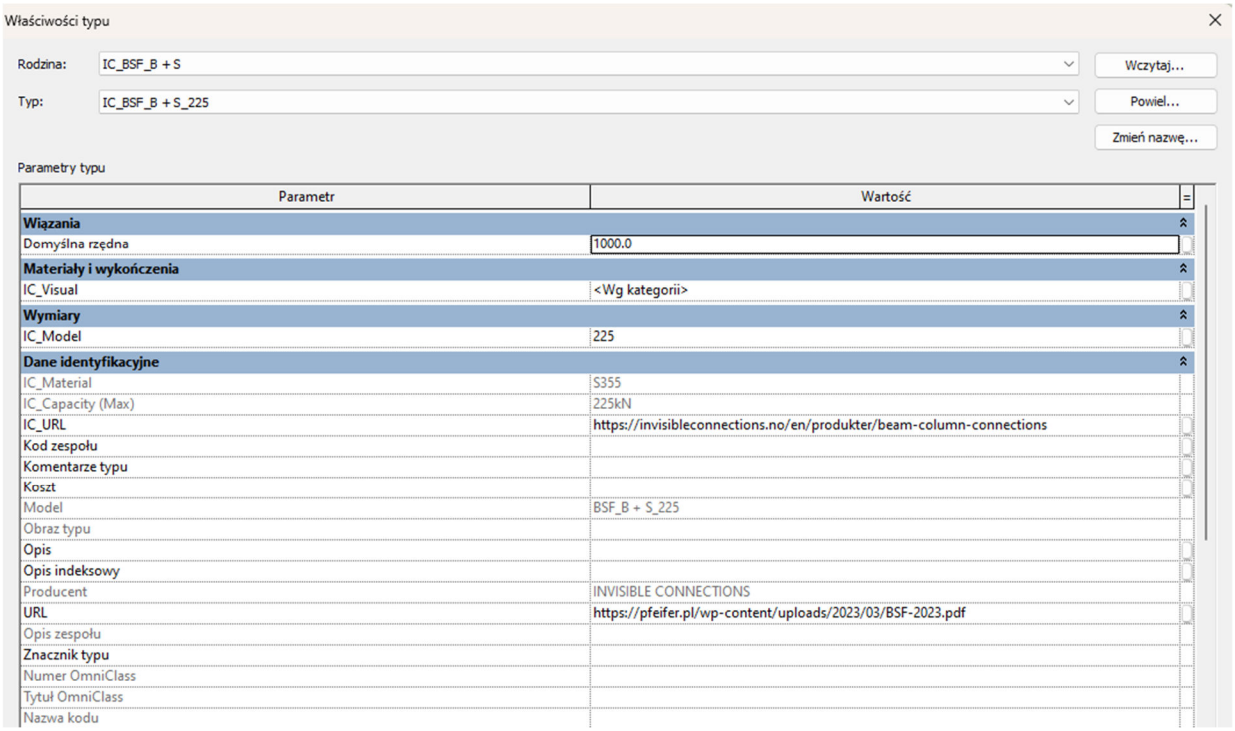
3. IC_BSF_B+S

A structural connection element that is supported by two parameters:

a) IC_Visual – Parameter responsible for assigning material for the element.
b) IC_Model - The parameter responsible for assigning the appropriate sizes for the item, the parameter also suggests what available variants we have to choose from, if we select a model that is not in the catalog, the element will tell us by showing the text "OUT OF STOCK" in the Model field.

In addition, we have auxiliary parameters (Parameters filled in automatically):

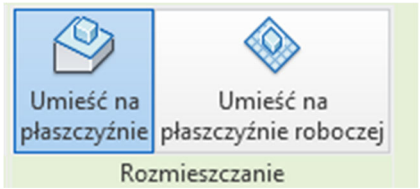
a) IC_Material - The parameter indicates the material of the element.
b) IC_Capacity (Max) - The parameter indicates the maximum load capacity of the element.
c) IC_URL – The parameter indicates a reference to the manufacturer's directory (Invisible Connections).
d) Model – The system parameter indicates the model of the element we have selected.
e) Manufacturer – The system parameter indicates the manufacturer.
f) URL – The system parameter indicates a reference to the manufacturer's directory.



Possible variants of the beam connector:

a) BSF_B + S_225
b) BSF_ B + S_300
c) BSF_ B + S_450
d) BSF_ B + S_700
e) BSF_ B + S_1100

Place the element in any element using the Plane Placement function:



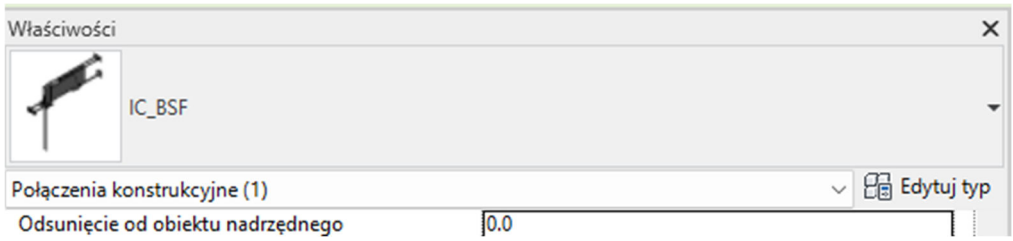
4. IC_BSF

A structural connection element supported by four parameters:

a) IC_BSF_B + S – Parameter responsible for selecting the appropriate element IC_BSF B + S from the selectable list (We can select only elements that are in the project).
b) IC_BSF_SF– Parameter responsible for selecting the appropriate IC_BSF_SF and IC_BSF B_B element from the selectable list (We can select only elements that are in the project).

c) IC_Model – Parameter responsible for the correct positioning of the element in relation to the upper plane of the beam on which we have inserted our connection (The distance from the upper edge of the beam is set according to the manufacturer's recommendations). It is enough to insert the element on the upper plane of the beam and we can be sure that the element is in the correct position in the beam. The parameter also suggests what available variants we have to choose from.

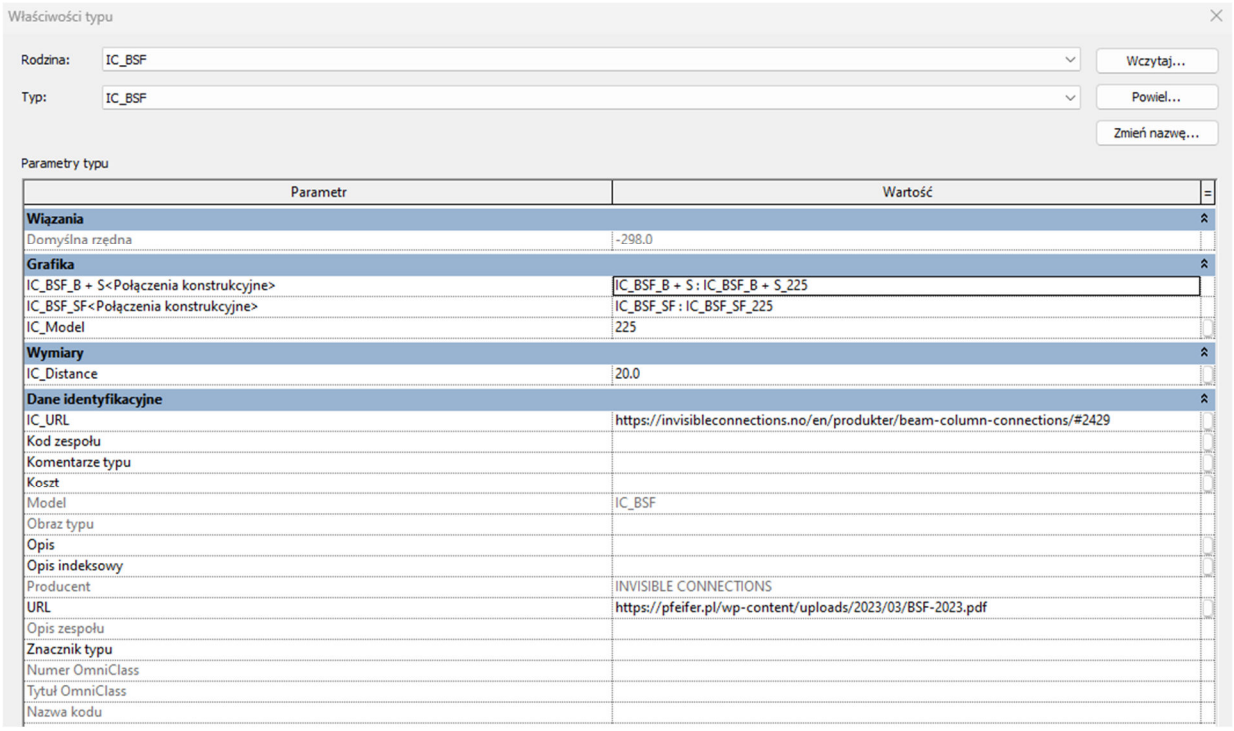
We do not perform any maneuvers in the Revit system parameter (Offset from Parent):



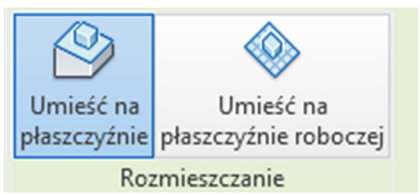
d) IC_Distance – Parameter responsible for moving the element in the column or beam away from the beam.

In addition, we have auxiliary parameters (Parameters filled in automatically):

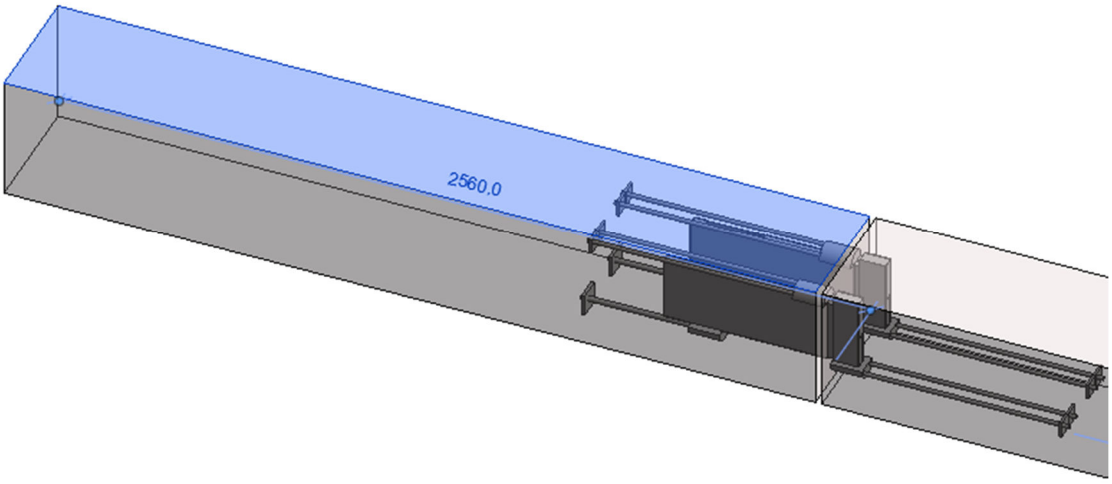
a) IC_URL – The parameter indicates a reference to the manufacturer's directory (Invisible Connections).
b) Model – The system parameter indicates the name.
c) Manufacturer – The system parameter indicates the manufacturer.
d) URL – The system parameter indicates a reference to the manufacturer's directory.



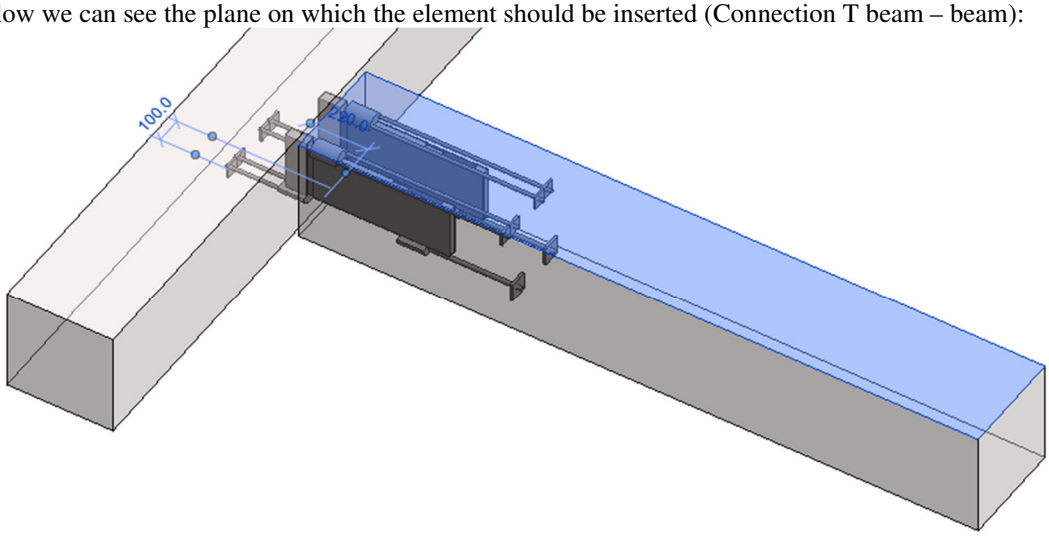
The element should be positioned using the Placement function on the plane in the beam (top plane of the beam):



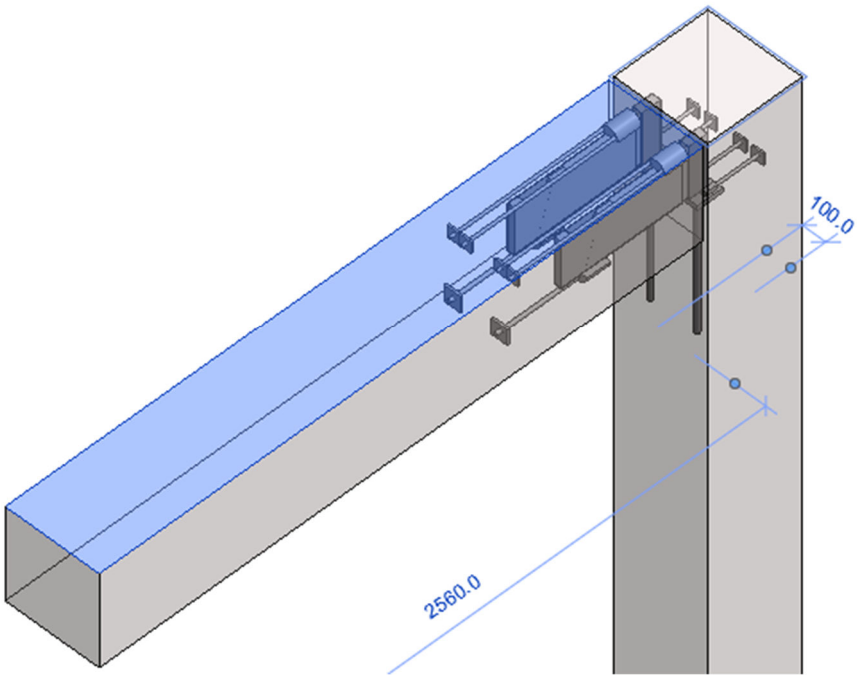
Below we can see the plane on which the element should be inserted (Beam-Beam Butt Connection):



Below we can see the plane on which the element should be inserted (Connection T beam – beam):



Below we can see the plane on which the element should be inserted (Column - Beam Connection):



Below we can see the plane on which the element should be inserted (Beam - Column - Beam Connection):

