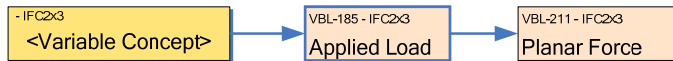


IFC Release Specific Concept Description (IFC2x3)

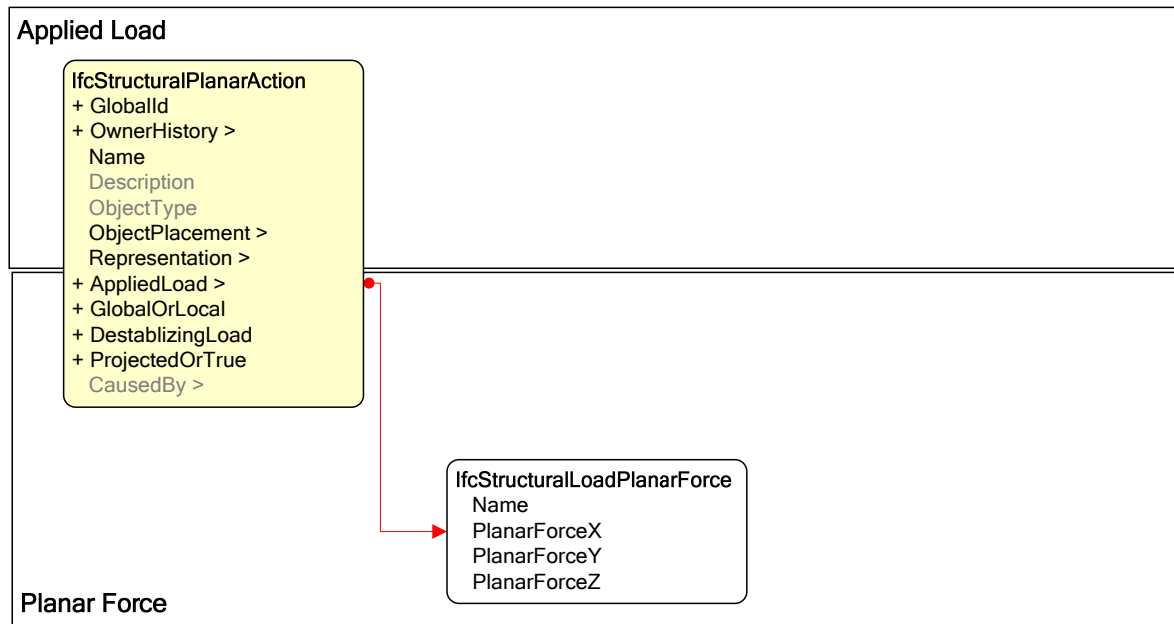
Planar Force

Reference	VBL-211	Version	2	Status	Proposal
Relationships	Implements general concept 'Planar Force'.				
History	Created 23.10.2006, improved 28.9.2007				
Authors	Sakari Lehtinen				
Document Owner	Virtual Building Laboratory @ TUT (sakari.lehtinen@tut.fi)				

Usage in view definition diagram



Instantiation diagram



Implementation agreements

IfcStructuralPlanarAction

Attribute	Implementation agreements
GlobalId	N/A
OwnerHistory	N/A
Name	Reserved.
Description	Reserved.
ObjectType	N/A
ObjectPlacement	N/A
Representation	N/A
AppliedLoad	Must be IfcStructuralLoadPlanarForce
GlobalOrLocal	N/A
DestablizingLoad	N/A
CausedBy	N/A
ProjectedOrTrue	N/A

Additional information

P21 example

```
#39=IFCGEOMETRICREPRESENTATIONCONTEXT('3D Model', 'Design', 3, $, #64, $);  
#1887=IFCRELCONNECTSSTRUCTURALACTIVITY('2aShwLf2bC1srk9rfzXxup', #2, $, $, #27, #35);  
#35=IFCSTRUCTURALPLANARACTION('384VvF0wnDpN6ozCvAgshQ', #2, $, 'Example planar action', $, #1655, #1623, #1656, .LOCAL_COORDS., .F., .TRUE_LENGTH., $);  
#80=IFCAXIS2PLACEMENT3D(#42, #81, #44);  
#1655=IFCLOCALPLACEMENT($, #80);  
#1612=IFCCARTESIANPOINT((-100.0, 100.0, 2680.0));  
#1611=IFCCARTESIANPOINT((-100.0, -12100.0, 2680.0));  
#1610=IFCCARTESIANPOINT((7100.0, -12100.0, 2680.0));  
#1609=IFCCARTESIANPOINT((7100.0, 100.0, 2680.0));  
#1613=IFCPOLYLOOP((#1612, #1611, #1610, #1609));  
#1621=IFCFACEOUTERBOUND(#1613, .T.);  
#1615=IFCDIRECTION((0.0, 0.0, 1.0));  
#1614=IFCDIRECTION((0.0, -12200.0, 0.0));  
#1616=IFCAXIS2PLACEMENT3D(#1612, #1615, #1614);  
#1617=IFCPLANE(#1616);  
#1604=IFCFACESURFACE((#1621), #1617, .T.);  
#1622=IFCTOPOLOGYREPRESENTATION(#77, $, $, (#1604));  
#1623=IFCPRODUCTREPRESENTATION($, $, (#1622));  
#1656=IFCSTRUCTURALLOADPLANARFORCE($, 2000, 2000, 2000.0);
```

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The content of this document has to be certified by the IAI before becoming part of an official IFC Model View Definition.