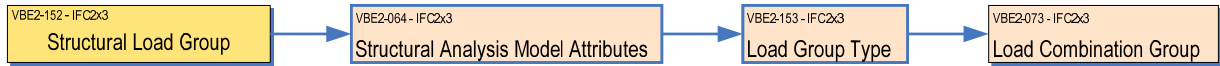


IFC Release Specific Concept Description (IFC2x3)

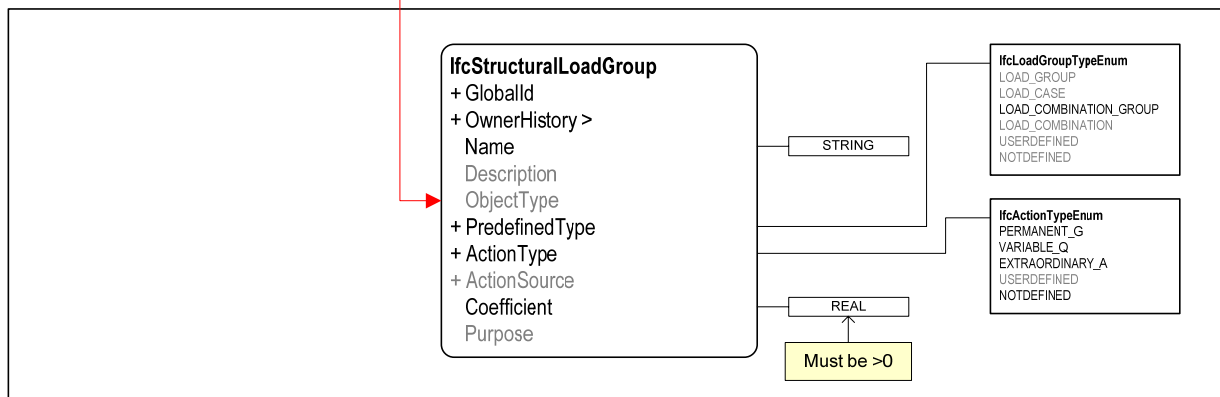
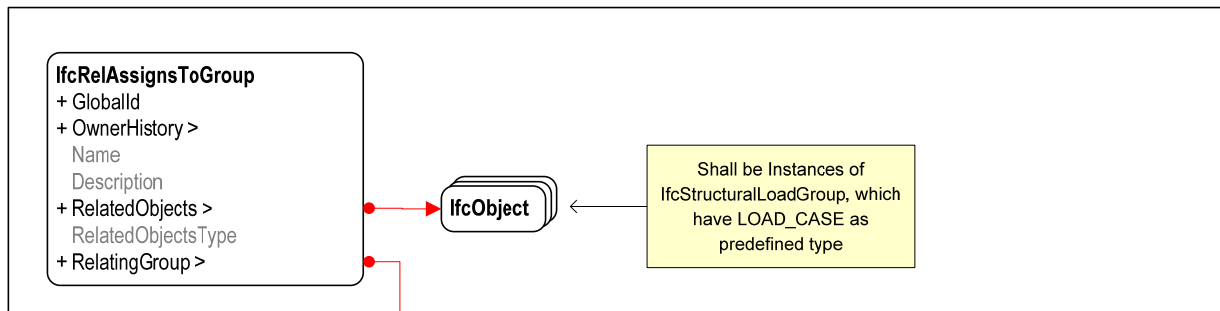
Structural Load Combination Group

Reference	VBE2-073	Version	1.0	Status	Draft
Relationships					
History	Created 23.10.2006				
Authors	Sakari Lehtinen				
Document Owner	Tampere University of Technology				

Usage in view definition diagram



Instantiation diagram



Implementation agreements

- *GlobalID*. Providing a GUID is mandatory. In the *IfcRelAssignsToGroup* GUID is allowed to change.
- *OwnerHistory*. Providing an *OwnerHistory* is mandatory, but it is allowed to use dummy data in the owner history.
- *Name*. Freely used string. Not used in the *IfcRelAssignsToGroup*.
- *Description*. Not used
- *RelatedObjects*. List of *IfcObjects*. Shall be instance of *IfcStructuralLoadGroup*, which has *LOAD_CASE* for *PredefinedType*.
- *RelatedObjectType*. Not used.
- *RelatingGroup*. Shall be instance of *IfcStructuralLoadGroup*.
- *IfcStructuralLoadGroup>PredefinedType*. Must be *LOAD_COMBINATION_GROUP*.
- *IfcStructuralLoadGroup>ActionType*. The type of the load.
- *IfcStructuralLoadGroup>ActionSource*. Not used.
- *IfcStructuralLoadGroup>Coefficient*. Must be greater than zero.

Each *IfcStructuralLoadGroup*, which has *LOAD_CASE* for *PredefinedType*, may be associated to several *IfcStructuralLoadGroup*, which have *LOAD_COMBINATION_GROUP* for *PredefinedType*.

Load groups have a hierarchy. From the bottom to up it is: Action->Load case->Load combination group->Load combination. Each can be part of the group above or groups items below in the hierarchy. For more details see *IfcStructuralLoadGroup* from the IFC2x3 online documentation.

Additional information

P21 example

```
#28=IFCSTRUCTURALANALYSISMODEL('2uRpA0c3HFLcw0f7ywxmPv', #2, 'Example model', $, $, .LOADING_3D., $, (#8, #16, #33), $);
#8=IFCSTRUCTURALLOADGROUP('3oBygqQiTanr_iNVK7zUuK', #2, 'wind west', $, $, .LOAD_COMBINATION., .NOTDEFINED., .NOTDEFINED., $, $);
#5=IFCRELASSIGNSTOGROUP('0Auj8TqP5074IBcmw_cony', #2, '$', $, (#4, #6, #7), $, #8);
#4=IFCSTRUCTURALLOADGROUP('18BCRV7eT4570ifRrTYfeDT', #2, 'west wind group', $, $, .LOAD_COMBINATION_GROUP., .PERMANENT_G., .NOTDEFINED., 1.0, $);
#1=IFCRELASSIGNSTOGROUP('1kQX$XAC13u7Ta3_Tpu6xp', #2, $, $, (#3), $, #4);
#3=IFCSTRUCTURALLOADGROUP('1eZwYewL9EfDqMZe4RIE1D', #2, 'west wind load', $, $, .LOAD_CASE., .VARIABLE_Q., .WIND_W., 1.05, $);
#9=IFCRELASSIGNSTOGROUP('08uWZEbKL6xNaymVWATv$S', #2, $, $, (#10, #11), $, #3);
#10=IFCSTRUCTURALLINEARACTION('2u6Aq3yejd94UEdv_Q34kp', #2, 'Example action', $, $, #1560, #1590, #1562, .LOCAL_COORDS., .F., .TRUE_LENGTH., $);
```

This document uses the official IFC Model View Definition Format version 1.1.0. of the IAI (www.iai-international.org)
The content of this document has to be certified by the IAI before becoming part of an official IFC Model View Definition.