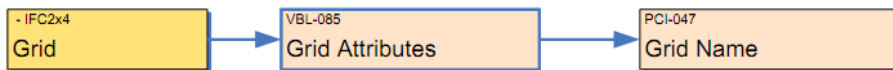


IFC Release Specific Concept Description (<IFC Release 2x3>)

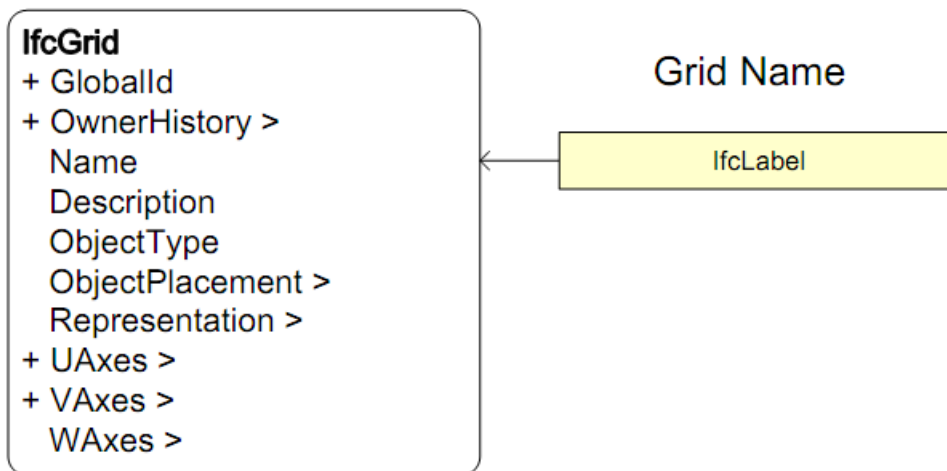
Grid Name

Reference	PCI-047	Version	1.1	Status	Draft
Relationships	Implements general concept 'Grid Name'				
History	v.1.0 8-Aug-09, Revised Nov 18, 2012				
Authors	Manu Venugopla; Chuck Eastman				
Document Owner	Precast/Prestress Concrete Institute				

Usage in view definition diagram



Instantiation diagram



Implementation agreements

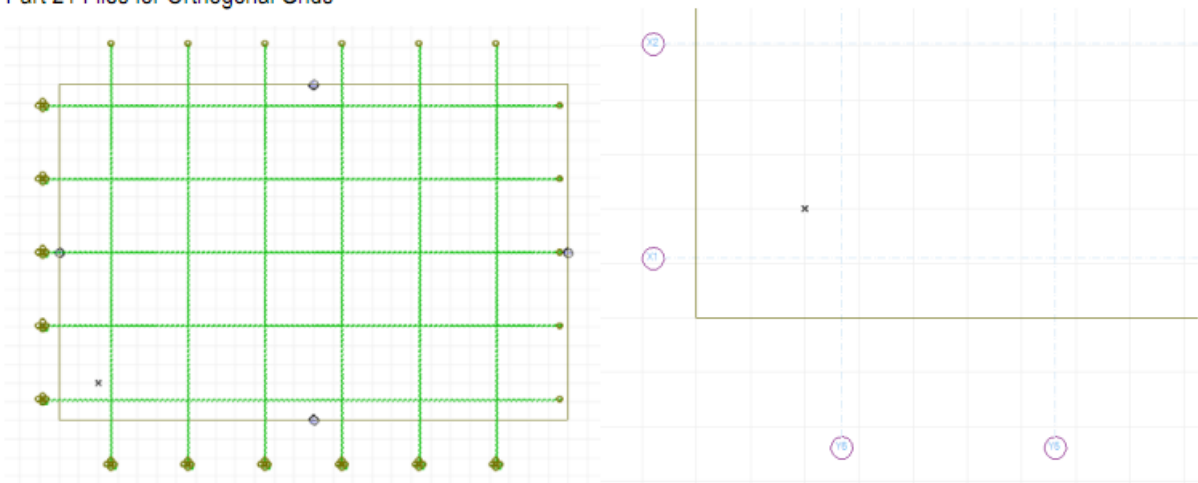
[IfcGrid](#)

Attribute	Implementation agreements
GlobalId	Must be provided
OwnerHistory	Must be provided, but may contain dummy data
Name	Name should be assigned.
Description	<Open>
ObjectType	Optional
ObjectPlacement	Optional
Representation	Is a subtype of IfcProductRepresentation

UAxes	LIST [1:?] OF UNIQUE IfcGridAxis . (List of grid axes defining the first row of grid lines)
VAxes	LIST [1:?] OF UNIQUE IfcGridAxis . (List of grid axes defining the second row of grid lines.)
Waxes	OPTIONAL LIST [1:?] OF UNIQUE IfcGridAxis . (List of grid axes defining the third row of grid lines. It may be given in the case of a triangular grid.)

Example:

Part 21 Files for Orthogonal Grids



```
#13= IFCOWNERHISTORY(#12,#5,$,.NOCHANGE,$,$,1242151847);
#103= IFCCARTESIANPOINT((0.,0.));
#107= IFCCARTESIANPOINT((32000.,0.));
#112= IFCPOLYLINE((#103,#107));
#116= IFCGRIDAXIS('X1',#112,.T.);
#133= IFCGRIDAXIS('X2',#129,.T.);
#150= IFCGRIDAXIS('X3',#146,.T.);
#167= IFCGRIDAXIS('X4',#163,.T.);
#184= IFCGRIDAXIS('X5',#180,.T.);
#201= IFCGRIDAXIS('Y6',#197,.T.);
#218= IFCGRIDAXIS('Y5',#214,.T.);
#299= IFCLOCALPLACEMENT(#90,#296);
#302=
IFCGRID('1bJRitt695SP_HdGztqaA_',#13,'OrthogonalGrid',$,$,#299,$,(#116,#133,#150,#167,#184),(#201,#218,#235,#253,
#270,#287),$);
```