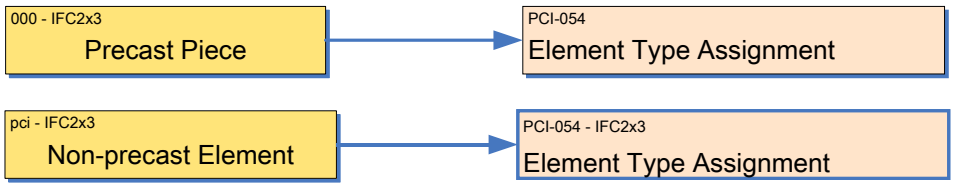
IFC Release Specific Concept Description (IFC 2x3**)**

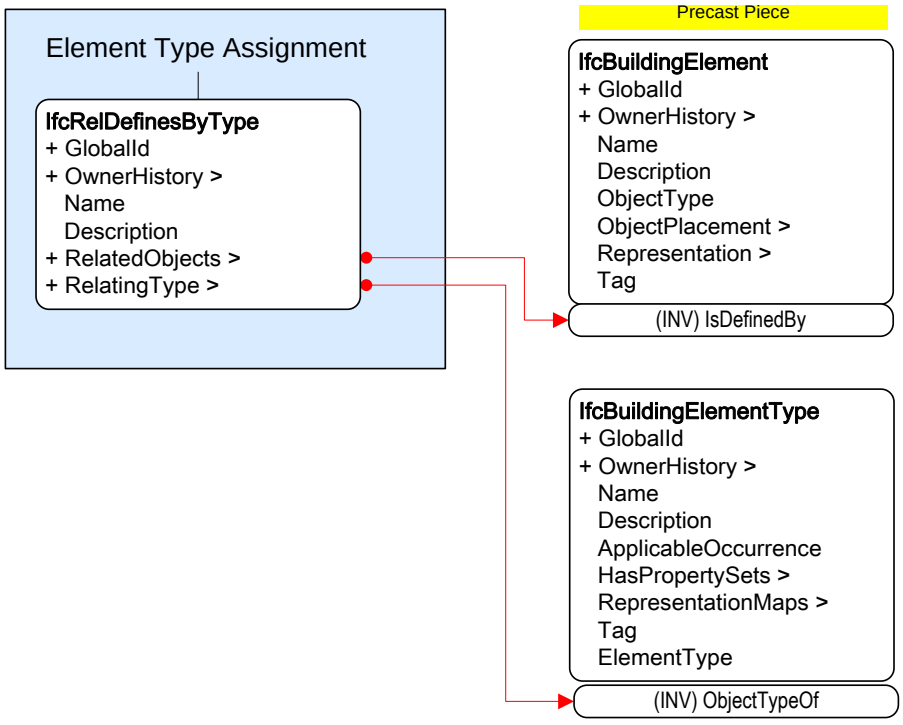
Element Type Assignment

Reference	PCI-054	**Version**	1.1	**Status**	Draft
Relationships	Associates an ElementType to an Element instance, associating the ElementType's information. BuildingElement may be any BuildingElement subtypes: Beam, Column, Simple Slab, Simple Wall, Member, Pile, Ramp, Stair or ProxyElement.. Similarly, BuildingElementType may be any of the matching subtypes.Some of these Elementand Element types have specific attributes. these are addressed in PCI-053 and PCI-080				
History	Edited 15 November, 2012				
Authors	Ivan Panushev / Aram Chuck Eastman chuck.eastman@coa.gatech.edu				
Document Owner	Precast/Prestressed Concrete Institute				

Usage in view definition diagram



Instantiation diagram



Implementation agreements

IfcRelDefinesByType

Attribute	Implementation agreements

GlobalId	Must be provided
OwnerHistory	Must be provided, but may contain dummy data
Name	<Open>
Description	<Open>
RelatedObjects	Must be subtype of IfcBuildingElement. See precast piece or precast piece mark concept bindings for rules about appropriate subtype selection.
RelatingType	Must be a sub-type of IfcBuildingElementType. The subtype must match the subtype of IfcBuildingElement (e.g. IfcBeam must have IfcBeamType for RelatingType)

IfcBuildingElement subtypes can be Precast Piece

IfcBuildingElement Representation should be (INV) of ProductRepresentation

IfcBuildingElementType can take any of its subtypes

Example: Part21 file for IcfBeam type assignments

```
#1571=
IFCBEAM('1A0gmi0000734oD34sE3an',#20,'PRECAST_SLAB','P32K(200X1200)','P32K(2
00X1200)',#1558,#1567,'TS_2108');
#3406=
IFCRELDEFINESBYTYPE('2axqNaAIT0xgpSjZD$JSfR',#20,$,$,(#1571,#1532,#1493,#145
4,#579,#540,#501,#462,#423,#341),#360);
```

PCI NBIMS Examples - 1.ifc

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