

# IFC Release Specific Concept Description (IFC2x3)

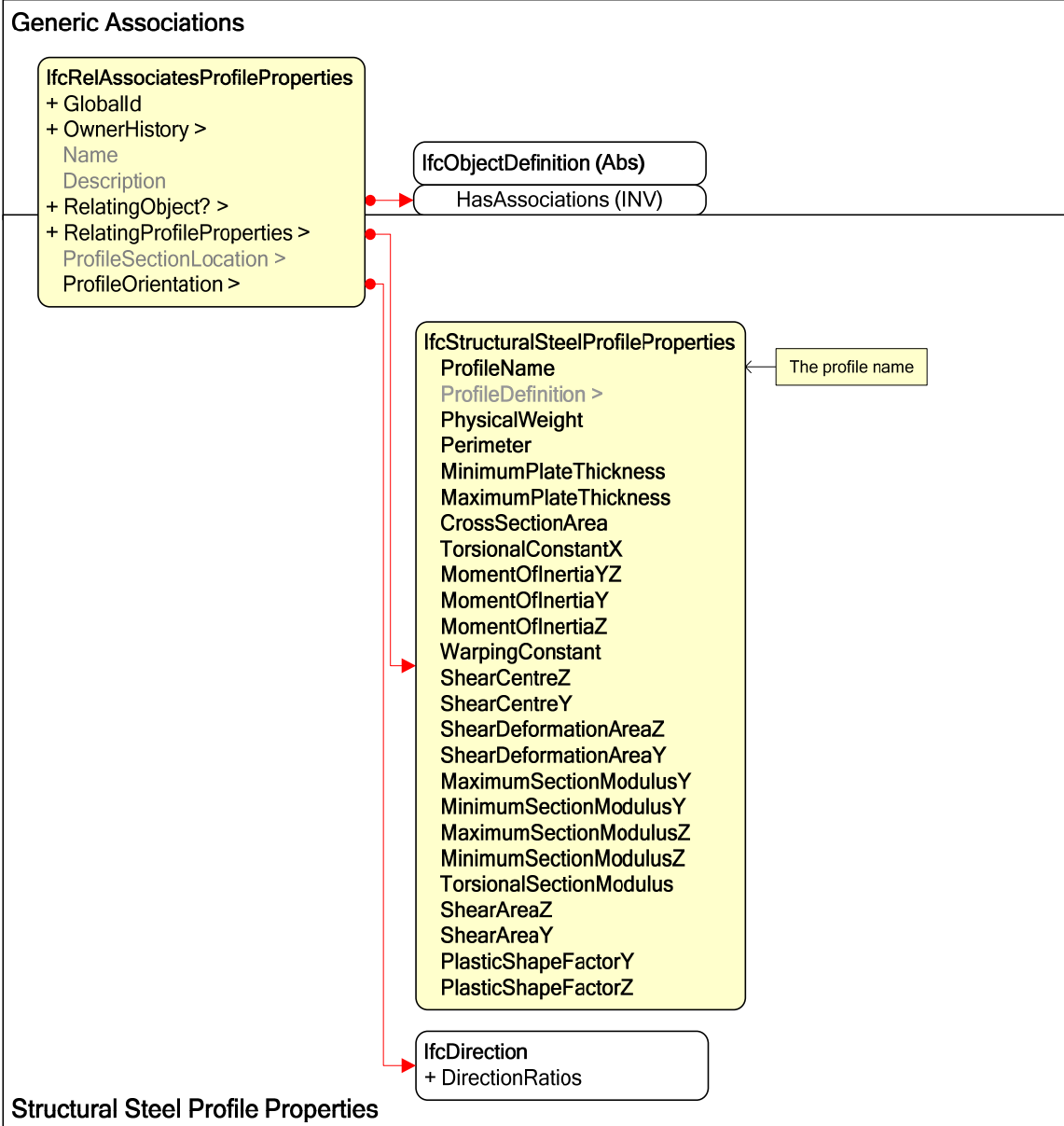
## Structural Steel Profile Properties

Reference	VL-447	Version	1	Status	Proposal
Relationships					
History	Created 31.1.2008				
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### Usage in view definition diagram



### Instantiation diagram



## Implementation agreements

### IfcRelAssociatesProfileProperties

Attribute	Implementation agreements
GlobalId	Providing a GUID is mandatory, but the GUID is allowed to change.
OwnerHistory	Providing an OwnerHistory is mandatory, but it is allowed to use dummy data.
Name	Reserved.
Description	Reserved.
RelatedObjects	N/A
RelatingProfileProperties	Must be IfcGeneralProfileProperties.
ProfileSectionLocation	Not used.
ProfileOrientation	Must be IfcDirection.

### IfcStructuralSteelProfileProperties

Attribute	Implementation agreements
ProfileName	The profile name associated to the structural member is entered here.
ProfileDefinition	Not used. The profile library of the importing application will be used. The profile is recognized and mapped to the library by its name.
PhysicalWeight	<Open>
Perimeter	<Open>
MinimumPlateThickness	<Open>
MaximumPlateThickness	<Open>
CrossSectionArea	<Open>
TorsionalConstantX	<Open>
MomentOfInertiaYZ	<Open>
MomentOfInertiaY	<Open>
MomentOfInertiaZ	<Open>
WarpingConstant	<Open>
ShearCentreZ	<Open>
ShearCentreY	<Open>
ShearDeformationAreaZ	<Open>
ShearDeformationAreaY	<Open>
MaximumSectionModulusY	<Open>
MinimumSectionModulusY	<Open>
MaximumSectionModulusZ	<Open>
MinimumSectionModulusZ	<Open>
TorsionalSectionModulus	<Open>
CentreOfGravityInX	<Open>
CentreOfGravityInY	<Open>
ShearAreaZ	<Open>
ShearAreaY	<Open>
PlasticShapeFactorY	<Open>
PlasticShapeFactorZ	<Open>

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