1.7 IFC entities

An IFC type is a clearly identified object in the IFC data model. Depending on the IFC type assignment and type definition, the object receives certain standard attributes and dependencies within the IFC schema. Choosing the right IFC type when exporting to IFC is therefore very important: if a wall is not assigned to the IFC type IfcWall, it will not receive all the attributes needed to be uniquely described. It will then not be interpreted correctly by other coordination or evaluation software.
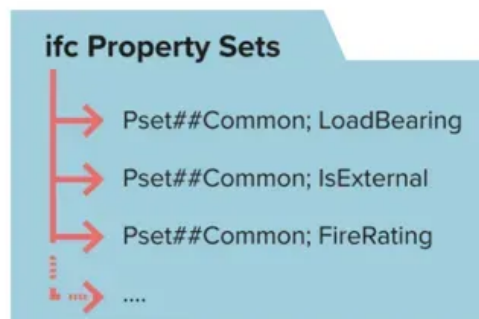

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PredefinedType

Since version 29, predefined types have been introduced in addition to IFC types, offering an additional level of "classification" to further distinguish objects. The types associated with the entity can be freely defined, enabling a more precise description of objects.

PropertySet

The IfcPropertySet is a **container that holds properties within a "property tree"**. Properties are organized into groups (called Psets = Property-Sets). Each element class has a typical Pset, which carries the most important characteristics. This Pset is designated by the suffix "Common", for example PsetWallCommon or Pset_BeamCommon. In addition, any user-defined property set can be entered. Property blocks that are not declared as part of the IFC specification must have a name value that does not contain the "Pset" prefix.

Beispiel: Für Balken sind die Eigenschaften der Brandschutzklassifizierung (FireRating), Tragfähigkeit (tragend / nicht tragend) (LoadBearing) und Innen- / Außenliegend (IsExternal) im Property Set (Pset_BeamCommon) enthalten.

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