Normative IFC Rules Report

Normative

Report Date	2025-12-15 20:33:41
IFC Schema	IFC4X3_ADD2
MVD(s) ⚠️	CoordinationView
File Name in Header	-
File Name	BSI Val_edits_norm.ifc
File Size	557.36 kB
File Date	2025-12-15T13:27:36

Normative IFC Rules ☐ include Passed, Disabled and N/A ⓘ

⌄ IFC105 - Resource Entities Need To Be Referenced By Rooted Entity *(occurred 1 time)*

ⓘ The rule verifies that resource entities are directly or indirectly related to at least one rooted entity instance by means of forward or a small curated set of inverse attributes. Resource entities are the schema classes that do not inherit from IfcRoot, typically defined in the resource layer of the schema (e.g Geometry Resource). The inverse attributes that are followed are: StyledByItem HasCoordinateOperation LayerAssignments LayerAssignment HasSubContexts HasProperties (material and profile def) HasRepresentation (material) HasColours HasTextures (tessellated face sets)

https://buildingsmart.github.io/ifc-gherkin-rules/branches/main/features/IFC105_Resource-entities-need-to-be-referenced-by-rooted-entity.html

Severity	Id	Entity	Expected	Observed
Error	#12236	IfcCartesianPoint	*it must be referenced by an entity instance inheriting from IfcRoot directly or indirectly*	-

⌄ OJT001 - Object Predefined Type *(occurred 1 time)*

ⓘ The rule verifies that the attribute 'PredefinedType' for object occurrences is used in accordance with Concept Template 4.1.3.2 - Object Predefined Type. Ref: https://standards.buildingsmart.org/IFC/RELEASE/IFC4_3/HTML/concepts/Object_Attributes/Object_Predefined_Type/content.html

https://buildingsmart.github.io/ifc-gherkin-rules/branches/main/features/OJT001_Object-predefined-type.html

Severity	Id	Entity	Expected	Observed
Error	#16797	IfcCourse	*The value of attribute .ObjectType. must be ^not empty^*	-

⌄ SPS002 - Correct Spatial Breakdown *(occurred 1 time)*

ⓘ The rule verifies that spatial elements are aggregated as per the Spatial Composition Table. The possible allowed breakdown can be found in the csv file in the folder 'features/resources/spatial_CompositionTable.csv'

https://buildingsmart.github.io/ifc-gherkin-rules/branches/main/features/SPS002_Correct-spatial-breakdown.html

Severity	Id	Entity	Expected	Observed
Error	#16148	IfcRoadPart	[["context","to be the whole that is decomposed by"],["oneOf",["IfcFacility","IfcFacilityPartCommon","IfcRoad","IfcRoadPart","IfcSpace"]]]	IfcAlignment(#36)

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