

# ISO 16757-4:2025-10 (E)

## Data structures for electronic product catalogues for building services - Part 4: Data dictionary structures for product catalogues

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
4	Modelling of required kinds of data .....	3
4.1	General .....	3
4.2	Overall model .....	3
4.3	Subject kinds of the overall model .....	4
4.3.1	Product .....	4
4.3.2	Catalogue .....	5
4.3.3	Block .....	6
4.3.4	Ports and in/outlets .....	7
4.4	Relationship types .....	9
4.4.1	isSubtypeOf .....	9
4.4.2	hasPart .....	10
4.4.3	hasBlock .....	11
4.4.4	isDependentOn .....	11
4.4.5	isSubkindOf .....	11
4.5	Property kinds and their representation in the overall model .....	12
4.5.1	General .....	12
4.5.2	What does a property describe .....	12
4.5.3	Representation of the property kinds using the overall model .....	13
4.6	Relationship to data templates .....	15
5	Representation of the overall model by means of ISO 12006-3 .....	15
5.1	General .....	15
5.2	Relationships in ISO 12006-3 .....	16
5.2.1	Overview .....	16
5.2.2	Property relationships .....	16
5.2.3	Subject relationships .....	16
5.3	Dictionary meta level to define subject kinds and relationship types .....	17
5.4	Kinds of subjects at the dictionary meta level .....	20
5.5	Subject relationship types at the dictionary meta level .....	20
5.6	Property relationships .....	22
6	Specific rules and recommendations .....	22
6.1	General .....	22
6.2	Rules for specific situations .....	22
6.2.1	Cardinality properties for hasPart and hasBlock relationships .....	22
6.2.2	References to literature .....	22
6.2.3	Positioning in space .....	23
6.2.4	Predefined calculation functions for dynamic properties .....	23
6.2.5	Relationships to classifications or other dictionaries .....	23
6.3	Recommendations for dealing with controlled value lists .....	24
6.3.1	Problem description .....	24

<b>6.3.2</b>	<b>Property value list with subject contextual filtering .....</b>	<b>24</b>
	<b>Bibliography .....</b>	<b>25</b>