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22	Heating conitation components	26 11 2015	Applies to all types of components for beating and capitation (av

#### Model delivery specification

sociated railings

e ducts etc.

oards, control units, rack cabinets, luminaires, plugs, workstations etc.)

units, fans, diffusers, dampers, silencers etc.)

exchangers, vessels, filters, pumps, valves, radiators etc.)

Building element Description Revision date	Wall Applies to all outside and inside	e walls					
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Illustration							
Description			Walls are modelled as generic objects in max. outer contour broken down into overall types. Expected dimension and location. Openings with expected dimension and location.	Walls are modelled as assemblies with details of materials. Specified main dimension and location. Openings with specified dimension and location.	Walls are modelled as assemblies with details of materials. Final dimension and location. Openings with final dimension and location. Surfaces down to 5 mm.	Walls are modelled as assemblies with details of materials. Final structure, dimension and location. Openings with final dimension and location. Surfaces down to 5 mm. Components, joints, holes etc.	
Mandatory shape and location attributes (attribute classes F, G)			Area	Area	Area Location	Area Location	
Mandatory attributes (attribute classes A-E, H-R)			Classification Type Type name	Classification Type Type name	Classification Type Type name Fire rating Acoustic rating	Classification Type Type name Fire rating Acoustic rating	
Other attributes			Location Width Length Height	Location Width Length Height U-value Material	Width Length Height U-value Material Contract	Width Length Height U-value Material Contract	



Building element Description Bovision date	Door Applies to all outside and insid	e doors and gates					
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Illustration							
Description			Doors are modelled as generic objects in max. outer contour broken down into overall types. Expected dimension and location. Doors are modelled in simple geometry.	Doors are modelled with hinges, frame, architrave, door sill / threshold. Specified dimension and location. Material on door panel modelled as glass or solid.	Doors are modelled with hinges, frame, architrave, door sill / threshold. Final dimension and location. Material on door panel modelled as glass or solid. Conspicuous fittings are modelled.	Doors are modelled with hinges, frame, architrave, door sill / threshold. Final structure, dimension and location. Material of door panel is modelled. Conspicuous fittings are modelled.	
Mandatory shape and location attributes (attribute classes F, G)			Width Height	Width Height	Width Height Location	Width Height Location	
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type name Fire rating Acoustic rating	Classification Type Type name Fire rating Acoustic rating Equipment Fittings	Classification Type Type name Fire rating Acoustic rating Equipment Fittings	
Other attributes			Type Area Location Orientation	Area Location Orientation Contract Wall width U-value Material Equipment	Area Orientation Contract Wall width U-value Material	Area Orientation Contract Wall width U-value Material	



Building element Description	Window Applies to all windows, with pa	anes and opaque areas			
Revision date	26-11-2015	Information level 2	Information level 3	Information level 4	l Ir
Illustration					
Description			Windows are modelled as generic objects in max. outer contour broken down into overall types. Expected dimension and location.	Windows are modelled with frame and architrave. Specified dimension and location.	Windows frame an Final dim
Mandatory shape and location attributes (attribute classes F, G)			Width Height	Width Height	Width Height Location
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type name Fire rating Acoustic rating	Classifica Type Type nar Fire ratin Acoustic U-value
Other attributes			Type Area Location Orientation	Area Location Orientation Contract Wall width U-value Equipment Fittings Material	



formation level 5	Information level 6	Information level 7
are modelled with d architrave. ension and location.	Windows are modelled with frame and architrave. Final structure, dimension and location.	
	Width Height Location	
tion ne g rating	Classification Type Type name Fire rating Acoustic rating Equipment U-value Fittings	

Description	Applies to all floor dividers that	t make a horizontal separatio	n		
Revision date	26-11-2015 Information level 1	Information level 2	Information level 3	Information level 4	In
llustration					
Description			Floor build ups are modelled as a combined generic object (floor, slab and ceiling) broken down into overall types. Floor dividers are a continuous surface over the whole of the relevant storey. Expected dimension and location.	Floor build ups are modelled as assemblies broken down into floors, slabs and ceilings. Floors and ceilings may be a continuous surface over the whole of the relevant storey Specified main dimension and location. Larger apertures are	Floor buil assemblie floors, sla Ceilings a walls etc. Final dime any risers Panel divi
Mandatory shape and location			Area	Area	Area
attributes (attribute classes F, G)			Height	Height	Height Location
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type name	Classificat Type Type nam Fire rating Acoustic r
Other attributes			Type Location	Location Contract Fire rating Acoustic rating U-value	Contract U-value Material

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Information level 5	Information level 6	Information level 7
uild ups are modelled as lies broken down into slabs and ceilings. and floors are divided by cc. mension and location incl. ers etc. ivisions marked with g. Larger apertures are ed.	Floor build ups are modelled as assemblies broken down into floors, slabs and ceilings. Ceilings and floors are separated by walls etc. Final structure, dimension and location incl. any risers etc. Panel divisions marked with hatching. Larger apertures are modelled.	
n	Area Height Location	
cation ame ing c rating	Classification Type Type name Fire rating Acoustic rating	
ct 2 al	Contract U-value Material	

Building element	Stairs, ramps and railings	abricated stairs and ramps ar	nd accordiated railings		
Revision date	26-11-2015	abricated stairs and ramps ar	iu associateu rainings		
	Information level 1	Information level 2	Information level 3	Information level 4	In
Illustration					
Description			Staircases are modelled. Expected dimension and location.	Specified dimension and location. Staircases and railings are modelled.	Staircase handrails Final dim
Mandatory shape and location attributes (attribute classes F, G)				Ramp slope	Ramp slo Location
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type name	Classifica Type Type nan Fire ratin
Other attributes			Location	Location Contract Material	Contract Material



formation level 5	Information level 6	Information level 7
s, railings, balustres and are modelled. ension and location.	Staircases, railings, handrails and balustres are modelled. Final dimension and location (element length/division), number, shape and location. Final in terms of brackets, holes, joints.	
pe	Ramp slope Location	
tion ne g	Classification Type Type name Fire rating	
	Contract Material	

Building element	Roof Applies to all roof structures that close the building from above				
Description Beviaion date	Applies to all root structures the	at close the building from abo	ve		
Revision date	01-12-2015	Information loval 2	Information loval 2	Information loval 4	
Illustration					
Description			Roofs are modelled as a collective	Roofs are modelled as assemblies	Roofs are
			generic object without sub- structures and divided into overall types. Expected dimension and location.	broken down into roof slab, roof structure, insulation and membrane. Specified dimension and location.	broken d structure membra Final dim Finish, rc materials gutters a modelled
Mandatory shape and location attributes (attribute classes F, G)			Area	Area	Area Location
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type name	Classifica Type Type nar Fire ratin
Other attributes			Type Height Location	Height Location Contract Fire rating U-value Material	Height Contract U-value Material



formation level 5	Information level 6	Information level 7
e modelled as assemblies own into roof slab, roof , insulation and ne. ension and location. of gradient and are included. Roof nd downpipes are l.	Roofs are modelled as assemblies broken down into roof slab, roof structure, insulation and membrane. Final dimension and location. Finish, roof gradient, holes, elements, joists, components and materials are modelled.	
	Area Location	
tion ne g	Classification Type Type name Fire rating	
	Height Contract U-value Material	

Building element Description Bevision date	Furniture and equipment Applies to loose and permanen	t fittings			
	Information level 1	Information level 2	Information level 3	Information level 4	Inf
Illustration					8
Description			Modelled as generic objects in max. outer contour.	Modelled with specified geometry and category.	Modelled category.
Mandatory shape and location attributes (attribute classes F, G)				Width Height Length	Width Height Length Location
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type name	Classificati Type Type name
Other attributes			Type Location	Location Contract Number	Location Number



Information level 5	Information level 6	Information level 7
ed with final geometry and	Modelled with final geometry and	
ry.	category.	
n	Width Height Length Location	
cation	Classification	
ame	Type Type name	
n :r	Location Number	

Object	Room						
Description	Applies to all room objects bou	inded by 3D structures					
Revision date	26-11-2015	T	T	T	<b>T</b>	T	
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Graphic/object							
Description			Room objects are inserted and bounded by 3D structures. Modelled to soffit of ceiling.	Room objects are inserted and bounded by 3D structures. Modelled to soffit of ceiling.	Room objects are inserted and bounded by 3D structures. Modelled to soffit of ceiling.	Room objects are inserted and bounded by 3D structures. Modelled to soffit of ceiling.	
Mandatory shape and location attributes (attribute classes F, G)			Area Volume	Area Volume	Area Volume Location	Area Volume Location	
Mandatory attributes (attribute classes A-E, H-R)			Room name	Room name Room number	Room name Room number	Room name Room number	
Other attributes			Location Floor surface Ceiling surface Planned area	Location Floor surface Ceiling surface Wall surface Planned area	Floor surface Ceiling surface Wall surface Planned area	Floor surface Ceiling surface Wall surface Planned area	



Object	Area				
Description	Applies to all areas bounded by	3D structures			
Revision date	26-11-2015				
	Information level 1	Information level 2	Information level 3	Information level 4	In
Graphic/object					
Description			Areas are used to define e.g. the total area and/or sub-areas of the building. Areas may be divided into sub- areas (building, floor, section, room)	Areas are used to define e.g. the total area and/or sub-areas of the building. Areas may be divided into sub- areas (building, floor, section, room)	Areas are total area building. Areas may areas (bui room)
Mandatory shape and location			Gross area	Gross area	Gross are
attributes (attribute classes F, G)			Sub-areas	Sub-areas	Sub-areas
Mandatory attributes (attribute classes A-E, H-R)			Area name	Area name	Area nam
Other attributes					



Information level 5	Information level 6	Information level 7
re used to define e.g. the ea and/or sub-areas of the g. nay be divided into sub- puilding, floor, section,	Areas are used to define e.g. the total area and/or sub-areas of the building. Areas may be divided into sub- areas (building, floor, section, room)	
rea eas	Gross area Sub-areas	
ime	Area name	

Building element	Steel column				
Description	Applies to steel columns				
Revision date	01-12-2015				
	Information level 1	Information level 2	Information level 3	Information level 4	In
Illustration					
Description			Columns are modelled as generic	Columns are modelled in	Columns
Description			objects in max. outer contour broken down into overall types. Expected main geometry, orientation and location.	specified main dimension, orientation and location. Larger holes for main lead- throughs with specified size and location.	dimensio orientatio Final brac throughs Fire insul it is cruci coordina
Nondetermedian and location					
attributes (attribute classes F, G)			Height Length	Width Height Length Profile type	Height Length Profile ty Location floor)
Mandatory attributes (attribute			Classification	Classification	Classifica
classes A-E, H-R)			Type name	Type name Type Construction type	Type nam Type Construct
Other attributes				Contract	Fire ratin
				Location	Insulation Insulation Corrosion Serial nur Contract Steel qua Surface t

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formation level 5	Information level 6	Information level 7
are modelled in final n, profile length, on and location. kets and holes for lead- ation is modelled where al to inter-disciplinary ion.	Columns are modelled in final dimension, orientation, location and profile length for production. Final brackets, holes for lead- throughs, bolts, connection plates, welds and fire insulation.	
oe e.g. building number or	Width Height Length Profile type Location (e.g. building number or floor)	
ion le ion type	Classification Type name Type Construction type Steel quality Serial number Steel quality Surface treatment Fire rating Insulation type Insulation thickness Contract	
g type thickness class nber lity eatment		

Building element	Steel beam				
Description	Applies to steel beams				
Revision date	01-12-2015				
	Information level 1	Information level 2	Information level 3	Information level 4	
Illustration					
Description			Beams are modelled as generic objects in max. outer contour broken down into overall types. Expected main geometry, orientation and location.	Beams are modelled in specified main dimension, orientation and location. Larger holes for main lead- throughs with specified size and location.	Beams dimen orient Final b throug Fire in under crucia coordi
Mandatory shape and location attributes (attribute classes F, G)			Width Height Length	Width Height Length Profile type	Width Height Length Profile Locatio floor)
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Type Construction type	Classif Type r Type Constr
Other attributes				Contract Location	Fire ra Insulat Corros Serial Contra Steel c Surfac

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Information lovel F	Information level C	Information level 7
Information level 5	Information level 6	Information level 7
00		
are modelled in final sion, profile length, ation and location. rackets and holes for lead- hs. sulation is modelled on the side of beams where it is to inter-disciplinary nation.	Beams are modelled in final dimension, orientation, location and profile length for production. Final brackets, holes for lead- throughs, bolts, connection plates, welds and fire insulation.	
type on (e.g. building number or	Width Height Length Profile type Location (e.g. building number or floor)	
cation ame uction type	Classification Type name Type Serial number Construction type Steel quality Surface treatment Corrosion class Fire rating Insulation type Insulation thickness Environmental class Contract	
ting ion type ion thickness ion class number ct ct uality e treatment		

Description	Applies to site-cast and prefabi				
Revision date	01-12-2015	Information level 2	Information level 3	Information level 4	Inf
Illustration					
Description			Columns are modelled as generic objects in max. outer contour broken down into overall types. Expected main geometry, orientation and Location.	Columns are modelled in specified main dimension, orientation and Location. Larger holes for main lead- throughs with specified size and Location.	Columns a dimension orientation Final brack and holes
Mandatory shape and Location attributes (attribute classes F, G	)		Width Height Length	Width Height Length Profile type	Width Height Length Profile type Location (e floor)
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Type Construction type	Classificati Type name Type Constructio
Other attributes				Reinforcement quantity Concrete strength Environmental class Max. stone size Contract Location	Serial num Reinforcen Surface tre Contract Concrete s Environme Max. stone



Information level 5	Information level 6	Information level 7
0		
ns are modelled in final sion, element length, ition and location. rackets, corrugated pipes les for lead-throughs.	Columns are modelled in final dimension, production length, orientation and Location. Final brackets, holes for lead- throughs, joints, reinforcement incl. supports, mounting points, bevels and insert plates.	
type n (e.g. building number or	Width Height Length Profile type Location (e.g. building number or floor)	
cation ame uction type	Classification Type name Type Serial number Construction type Concrete strength Environmental class Max. stone size Surface requirements Surface treatment Reinforcement quantity Contract	
number reement quantity e treatment ct te strength nmental class cone size		

Building element Description	Concrete beam Applies to site-cast and prefabr	icated concrete beams			
Revision date	01-12-2015	Information level 2	Information level 2	Information level 4	
Illustration		Information level 2			
Description			Beams are modelled as generic objects in max. outer contour broken down into overall types. Expected main geometry, orientation and location.	Beams are modelled in specified main dimension, orientation and location. Larger holes for main lead- throughs with specified size and location.	Beams a dimensic orientati Final bra throughs
Mandatory shape and location attributes (attribute classes F, G)			Width Height Length	Width Height Length Profile type	Width Height Length Profile ty Location floor)
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Type Construction type	Classifica Type nan Type Construc
Other attributes				Concrete strength Environmental class Max. stone size Reinforcement quantity Contract Location	Serial nu Reinforce Surface t Contract Concrete Environn Max. sto

formation level 5	Information level 6	Information level 7
e modelled in final n, element length, on and location. :kets and holes for lead-	Beams are modelled in final dimension, production length, orientation and location. Final brackets, holes for lead- throughs, joints, reinforcement incl. supports, mounting points, bevels and insert plates.	
pe (e.g. building number or	Width Height Length Profile type Location (e.g. building number or floor)	
tion ne tion type	Classification Type name Type Serial number Construction type Concrete strength Environmental class Max. stone size Surface requirements Surface treatment Reinforcement quantity Contract	
mber ement quantity reatment strength nental class ne size		

Description A	Applies to site-cast and prefabri	icated concrete walls			
Revision date 0	1-12-2015 Information level 1	Information level 2	Information level 3	Information level 4	In
Illustration					
Description			Walls are modelled as generic objects in max. outer contour broken down into overall types. Expected main geometry, orientation and location.	Walls are modelled in specified main dimension, orientation and location. Large openings and holes for main lead-throughs with specified size and location.	Walls are dimensio orientatio Final ope lead-thro edge leng Final brac corrugate
Mandatory shape and location attributes (attribute classes F, G)			Width Height Length	Width Height Length Profile type	Width Height Length Profile ty Location ( floor)
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Type Construction type	Classificat Type nam Type Construct
Other attributes				Concrete strength Environmental class Max. stone size Contract Reinforcement quantity Location	Serial nun Reinforce Surface tr Contract Concrete Environm Max. stor

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Information level 5	Information level 6	Information level 7
re modelled in final ion, element division, tion and location. benings, holes for main roughs with diameter or ngth over 150 mm. rackets, skirts, bends and ated pipes.	Walls are modelled in final dimension, orientation, location and element division for production. Final openings and holes for lead- throughs. Final brackets, joints, joint locks, reinforcement incl. supports, mounting points, bevels, inserts and plates.	
type n (e.g. building number or	Width Height Length Profile type Location (e.g. building number or floor)	
cation ame uction type	Classification Type name Type Serial number Construction type Concrete strength Environmental class Max. stone size Surface requirements Surface treatment Reinforcement quantity Contract	
umber cement quantity treatment ct te strength imental class one size		

Building element Description Revision date	<b>Concrete slab</b> Applies to site-cast and prefabr 01-12-2015	icated concrete slabs					
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Illustration						Contraction of the open of the	
Description			slabs are modelled as generic objects in max. outer contour broken down into overall types. Expected main geometry, orientation and location.	slabs are modelled in specified main dimension, orientation and location. Large openings and holes for main lead-throughs with specified size and location.	slabs are modelled in final dimension, orientation and location, with stress direction, element division and large site- cast areas. Final openings, holes for main lead-throughs with diameter or edge length over 150 mm.	slabs are modelled in final dimension, orientation, location and element division for production. Final openings and holes for lead- throughs. Final brackets, joints, joint locks, reinforcement incl. supports, mounting points, bevels, inserts and plates, structural joints and coverings.	
Mandatory shape and location attributes (attribute classes F, G)			Width Height Length	Width Height Length Profile type	Width Height Length Profile type Location (e.g. building number or floor)	Width Height Length Profile type Location (e.g. building number or floor)	
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type Type Construction type	Classification Type Type Construction type	Classification Type name Type Serial number Construction type Concrete strength Environmental class Max. stone size Surface requirements Surface treatment Reinforcement quantity Contract	
Other attributes				Concrete strength Environmental class Max. stone size Reinforcement quantity Contract Location	Serial number Reinforcement quantity Surface treatment Contract Concrete strength Environmental class Max. stone size		

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Building element Description Revision date	Foundations Applies to linear and point four 01-12-2015	ndations					
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Illustration							
Description			Foundations are modelled as generic objects in max. outer contour broken down into overall types. Expected main geometry, orientation and location.	Foundations are modelled in specified main dimension, orientation and location. Larger holes for main lead- throughs with specified size and location.	Foundations are modelled in final dimension, element division, orientation and location. Final steps, plinths and holes for lead-throughs.	Foundations are modelled in final dimension, element division, orientation and location. Final steps, plinths, brackets and holes for lead-throughs. Final reinforcement incl. supports, mounting points, fixings, inserts and plates.	
Mandatory shape and location attributes (attribute classes F, G)			Width Height Length	Width Height Length Profile type	Width Height Length Profile type Location (e.g. building number or level)	Width Height Length Profile type Location (e.g. building number or level)	
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Type Construction type	Classification Type name Type Construction type	Classification Type name Type Serial number Construction type Concrete strength Environmental class Max. stone size Surface requirements Surface treatment Reinforcement quantity Contract	
Other attributes				Concrete strength Environmental class Max. stone size Reinforcement quantity Contract Location	Serial number Reinforcement quantity Surface treatment Contract Concrete strength Environmental class Max. stone size		

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Building element Description Bovision date	<b>Electrical routings</b> Applies to cable trays, cable ladders, installation channels, cable ducts etc. 26-11-2015					
	Information level 1	Information level 2	Information level 3	Information level 4	Inf	
Illustration					A.A.	
Description			Routings are modelled as common generic volume objects for all installations in expected max. outer contour. Expected location and orientation.	Routings are modelled in specified max. outer dimensions. Specified location and orientation of cable Routings and fittings.	Routings a outer dim Final locat cable Rout	
Mandatory shape and location attributes (attribute classes F, G)			No attributes	Width Height Length Diameter Elevation	Width Height Length Diameter Elevation ( Location ( floor or ro Elevation	
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name	Classificat Type nam Part divisio	
Other attributes				Contract	Contract Hole requi Material	



Information level 5	Information level 6	Information level 7
gs are modelled in final dimensions. ocation and orientation of Routings and fittings.	Routings are modelled in final dimensions based on actual choice of product. Final location and orientation of cable Routings and fittings.	
ter ion (absolute) on (e.g. building number, or room number) ion	Width Height Length Diameter Location (e.g. building number, floor or room number) Elevation Production length	
ication name ivision	Classification Type name Part division Product-specific type Producer	
act equirement ial	Contract Hole requirement Material	

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E	lectrica	com	ponen

**Building element** nts Applies to all types of components for electrical installations (boards, control units, rack cabinets, luminaires, plugs, workstations etc.) Description

Revision date	26-11-2015	1		1		1	
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Illustration							
						THE REAL PROPERTY OF THE PROPE	
						(a	
Description			Components are modelled as	Components are modelled in	Components are modelled in final	Components are modelled in final	
			generic volume objects in	specified max. outer dimensions.	outer dimensions.	dimensions based on actual	
			Expected Inax. outer contour.	of components	components	Final location and orientation of	
			of components	or components.	components.	components	
Mandatory shape and location			No attributes	Width	Width	Width	
attributes (attribute classes F, G)				Height	Height	Height	
				Diamotor	Diameter	Diameter	
				Denth	Denth	Denth	
				Depti	Location (e.g. building number.	Location (e.g. building number.	
					floor or room number)	floor or room number)	
					Elevation	Elevation	
Mandatory attributes (attribute			Classification	Classification	Classification	Classification	
classes A-E, H-R)			Type name	Type name	Type name	Type name	
						Product-specific type	
1						Producer	
Other attributes				Contract	Contract	Contract	
					Data for embedded electrical	Data for embedded electrical	
					Ducts and boxes	Ducts and boxes	
					Elevation	Elevation	
					component-IDs etc.)	component-IDs etc.)	



**Building element** 

Description

#### Ventilation routings

Applies to channels and channel fittings 26-11-2015

Revision date	26-11-2015						
	Information level 1	Information level 2	Information level 3	Information level 4	Information level 5	Information level 6	Information level 7
Illustration							
Description			Conduits are modelled as common generic volume objects for all installations in expected max. outer contour. Expected location and orientation.	Conduits are modelled in specified max. outer channel dimensions plus any insulation. Specified location and orientation of channels, fittings and poss. insulation.	Conduits are modelled in specified outer channel dimensions plus any insulation. Final location and orientation of channels, fittings and poss. insulation.	Conduits are modelled in final channel dimensions based on actual choice of product, and with any insulation. Final location and orientation of channels, fittings and poss. insulation.	
Mandatory shape and location attributes (attribute classes F, G)			No attributes	Width Height Length Diameter	Width Height Length Diameter Location (e.g. Building number, floor or room number) Elevation	Width Height Length Diameter Location (e.g. building number, floor or room number) Elevation Production length	
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Insulation thickness	Classification Type name Insulation thickness Material Insulation type	Classification Type name Insulation thickness Material Insulation type Product-specific type Producer	
Other attributes				Contract	Contract Hole requirement Air volume	Contract Hole requirement Air volume	



Building element	Ventilation components	nts for vontilation (vontilation	unite fans diffusors dampare si	loncors ats)	
Revision date	26-11-2015		i units, fans, unitusers, uampers, si	lencers etc.)	
	Information level 1	Information level 2	Information level 3	Information level 4	Ir
Illustration					
					(+)
Description			Components are modelled as	Components are modelled in	Compone
			generic volume objects in	specified max. outer dimensions.	outer dir
			expected max. outer contour.	Specified location and orientation	Final loca
			Expected location and orientation	of components.	compone
			or components.		
Mandatory shape and location			No attributes	Width	Width
attributes (attribute classes F, G)				Length	Length
				Diameter	Diameter
				Depth	Depth
					Location
					Elevation
Mandatory attributes (attribute			Classification	Classification	Classifica
classes A-E, H-R)			Type name	Type name	Type nan
Othor attributos				Contract	Contract
Other attributes				Contract	Unit type



formation level 5	Information level 6	Information level 7
ents are modelled in final nensions. ition and orientation of ents.	Components are modelled in final dimensions based on actual choice of product. Final location and orientation of components.	
(e.g. building number, oom number)	Width Height Length Diameter Depth Location (e.g. building number, floor or room number) Elevation	
tion ne	Classification Type name Product-specific type Producer	
2	Contract Unit type	

Building element	Heating and sanitation routing	s					
Description	Applies to pipes and pipe fitting	gs					
Revision date	26-11-2015						
	Information level 1	Information level 2	Information level 3	Information level 4	In		
Illustration				000	0000		
Description			Conduits are modelled as common generic volume objects for all installations in expected max. outer contour. Expected location and orientation.	Conduits are modelled in specified max. outer pipe dimensions plus any insulation. Specified location and orientation of pipes, fittings and poss. insulation.	Conduits outer pip insulation Final loca pipes, fitt insulation		
Mandatory shape and location attributes (attribute classes F, G)			No attributes	Length Diameter	Length Diameter Location floor or r Elevation		
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Insulation thickness	Classifica Type nan Insulation Material Insulation		
Other attributes				Contract	Contract Hole requ		



formation level 5	Information level 6	Information level 7
are modelled in final	Conduits are modelled in final	
e dimensions plus any tion and orientation of ings and poss.	pipe dimensions based on actual choice of product, and with any insulation. Final location and orientation of pipes, fittings and poss. insulation.	
	Length	
e.g. building number, oom number)	Diameter Location (e.g. building number, floor or room number) Elevation Production length	
ion	Classification	
e thickness	Type name Insulation thickness Material	
type	Product-specific type Producer Insulation type	
irement	Contract Hole requirement	

**Building element** 

Description	Applies to all types of compone	nts for heating and sanitation	(exchangers, vessels, filters, pump	ps, valves, radiators etc.)	
Revision date	26-11-2015				
	Information level 1	Information level 2	Information level 3	Information level 4	In
Illustration	Information level 1	Information level 2	Information level 3	Information level 4	Compone outer din Final loca compone
			or components.	of components.	
Mandatory shape and location attributes (attribute classes F, G)			No attributes	Length Diameter	Length Diameter Location floor or r Elevation
Mandatory attributes (attribute classes A-E, H-R)			Classification Type name	Classification Type name Insulation thickness	Classifica Type nan Insulation Material Insulation
Other attributes				Contract	Contract Hole requ



formation level 5	Information level 6	Information level 7
ents are modelled in final	Components are modelled in final	
nensions. tion and orientation of nts.	dimensions based on actual choice of product. Final location and orientation of components.	
	Length	
(e.g. building number, oom number)	Diameter Location (e.g. building number, floor or room number) Elevation Production length	
tion	Classification	
ne n thickness	Type name Insulation thickness Material	
n type	Product-specific type Producer Insulation type	
uirement	Contract Hole requirement	