

MAS	"MAS" – Information requirements for all elements, bills of material quantities							AIM	Description	
	Attribute	Example	Project phase							
			KC	ST	DT	AP	BV			IM
01_Name	Window								Element name/description	
02_Material	Timber								Element material (specify if required within other data sets)	
03_Type	LKA-003-1								Element type in the design and/or according to BIM requirements	

Architectural solutions, Windows and doors	"Windows" - information requirements for windows							AIM	Description	
	Attribute	Example	Project phase							
			KC	ST	DT	AP	BV			IM
01_Name	Window								Element name/description	
02_Material	Timber								Element material	
03_Type	LKA-003-1								Element type in design	
05_Height	1470								Window frame (opening) height, mm	
06_Width	1220								Window frame (opening) width, mm	
15_Tone	White, NCS 0502y								Element colour/tone. If painted, the manufacturer should also be specified.	
18_Fire resistance class	EI 60								Fire resistance class of the element	
28_Fire reaction class	N/A								Reaction of the element to fire	
29_Thermal conductivity	1.3 W/m2k								Thermal conductivity of the element	
30_Sound insulation	43 dB								Sound insulation of the element, if required	
31_Watertightness	E900								Watertightness of the element, if required	
32_Air permeability	Class 4								Air permeability of the element, if required	
33_Wind load resistance	Class C3								Wind load resistance of the element, if required	
34_Glazing	Triple glazing								General description of element glazing	
35_Glass coating	3k4LowE+4+4LowE -12TGI								Specific coating of glazing, if required	
36_Solar radiation coefficient	N/A								Solar transmittance (g-value) of the element, if required	
37_Opening	Yes								Can the element be opened	
38_Fittings	Roto Frank								Element fittings manufacturer and model	
39_Fittings category	47-D130U, as per LVS EN 1906								Application category, standard	
40_Profile system	IV78								Element profile system	
53_Manufacturer	Staji								Element manufacturer	
54_Product ID	Climatrend IV78								Element model/product	
67_Technical specification	/relative link								Technical specification by the element manufacturer	

Architectural solutions, Doors	"Doors" - information requirements for doors							AIM	Description	
	Attribute	Example	Project phase							
			KC	ST	DT	AP	BV			IM
01_Name	Fireproof front door								Element name/description	
02_Material	Aluminium								Element material	
03_Type	AD-21								Element type in design	
05_Height	2270								Door frame (opening) height, mm	
06_Width	1570								Door frame (opening) width, mm	
15_Tone	White, RAL 9016								Element colour/tone. If painted, the manufacturer should also be specified.	
18_Fire resistance class	EI 60								Fire resistance class of the element	
28_Fire reaction class	N/A								Reaction of the element to fire (LVS EN 13501)	
29_Thermal conductivity	1.9 W/m ² k								Thermal conductivity of the element (for outside doors only)	
30_Sound insulation	39 dB								Sound insulation of the element, if required	
31_Watertightness	N/A								Watertightness of the element, if required (LVS EN 12208)	
32_Air permeability	N/A								Air permeability of the element, if required (LVS EN 12207)	
33_Wind load resistance	N/A								Wind load resistance of the element, if required (LVS EN 12210)	
34_Glazing	Triple glazing								General description of element glazing	
35_Glass coating	44.2Lam/16/22 mm								Specific coating of glazing, if required	
36_Solar radiation coefficient	N/A								Solar transmittance (g-value) of the element, if required	
38_Fittings	Assa Abloy								Element fittings manufacturer and model	
39_Fittings category	47-D130U, as per LVS EN 1906								Application category, standard	
41_Indoor element	No								Specify whether the element is located indoors or outdoors	
53_Manufacturer	Ponzo								Element manufacturer	
54_Product ID	PE 78 EI								Element model/product	
67_Technical specification	/relative link								Technical specification by the ceiling finishing material manufacturer	

Architectural solutions, Ceiling	"Ceiling finish" - information requirements for ceiling							AIM	Description	
	Attribute	Example	Project phase							
			KC	ST	DT	AP	BV			IM
01_Name	Suspended ceiling sheets								Element name/description	
02_Material	Fibrolite								Ceiling finishing material	
03_Type	PG-01								Ceiling finish type in the design	
07_Thickness	38								Ceiling finish thickness including the supporting structure (frame), mm	
09_Area	17.8								Ceiling finish area, m ²	
15_Tone	Black								Ceiling material colour/tone. If painted, the manufacturer should also be specified.	
28_Fire reaction class	B-s1, d0 as per LVS EN 13501-1								Specified fire reaction class of the element	
42_Load-bearing structure	VENTATEC Performance T24								Bearing structure system/model	
53_Manufacturer	CEWOOD								Ceiling finishing material manufacturer	
54_Product ID	CW-W15S086								Ceiling finishing material model/product	
66_Installation requirements	/relative link								Ceiling finishing material cleaning requirements	
67_Technical specification	/relative link								Technical specification by the ceiling finishing material manufacturer	

Architectural solutions, Wall and facade finish	"Wall finish" - information requirements for wall and facade finish							AIM	Description	
	Attribute	Example	Project phase							
			KC	ST	DT	AP	BV			IM
01_Name	Painted wallpaper								Element name/description	
02_Material	Vinyl								Wall finishing material	
03_Type	GS-001								Wall finish type in the design	
07_Thickness	1								Wall finish thickness, mm	
09_Area	16.5								Wall finish area, m ²	
15_Tone	L503 Snowdrift, Tikkurila Joker								Wall material colour/tone. If painted, the manufacturer should also be specified.	
20_Foundation	Plasterboard partition wall								Substrate of wall finish	
53_Manufacturer	Rasch								Wall finishing material manufacturer	
54_Product ID	Wallton 2020 143904								Wall finishing material model/product	
66_Installation requirements	/relative link								Wall finishing material cleaning requirements	
67_Technical specification	/relative link								Technical specification by the wall finishing material manufacturer	

Architectural solutions, Floor finish	"Floor finish" - information requirements for floor finish							AIM	Description	
	Attribute	Example	Project phase							
			KC	ST	DT	AP	BV			IM
01_Name	Tiles								Element name/description	

Mechanical, elect

"Equipment"* - Information requirements for equipment (fittings, pumps, equipment, etc.)

Attribute	Example	Project phase						AIM	Description
		KC	ST	DT	AP	BV	IM		
01_Name	Water pump								Element name/description
46_System	Internal water supply and sewerage								Mechanical, electrical and plumbing system
48_Technical characteristics	1500w, Q=100-350 l/min, D50/32								Technical characteristics of the element
49_BMS_protocol	ModBus								If available, specify the type of protocol
53_Manufacturer	Pedrollo								Element manufacturer
54_Product ID	FM 32/160C								Element model No./product
67_Technical specification	/relative link								Technical specification by the element manufacturer

"Asset info"* - Information about the location, type, name of the asset

Attribute	Example	Project phase						AIM	Description
		KC	ST	DT	AP	BV	IM		
21_Project ID	AB7								Project code - Aspazijas bulvāris 7
22_Zone	B1								Block 1 - If the building is divided into several blocks or zones
23_Floor	L01								1 st floor - The floor where the asset is located
25_Room No.	105								Space 105 - Exact location of asset
26_Asset	Conditioner								Asset name
27_Unique ID									Unique element identification number. See Paragraph 4.5.5 of BIM requirements "Unique Identification Number"
46_System	AVK-K								Conditioning – Design part names according to LBN 202-18 "Execution of the Construction Intention Documentation".

"Asset data"* - Information characterising the asset

Attribute	Example	Project phase						AIM	Description
		KC	ST	DT	AP	BV	IM		
50_BūvSast	SIST								Building component SIST - internal engineering system. Constant attribute for all assets
51_PamatGr	BIROJ								Group of fixed assets BIROJ - Office equipment. Constant attribute for all assets
52_PamatINos	Conditioner Philips CNP1								Equipment, manufacturer and model name

"As-built model"* - Information obtained during construction works

Attribute	Example	Project phase						AIM	Description
		KC	ST	DT	AP	BV	IM		
53_Manufacturer	Philips								Name of the manufacturer
54_Product ID	CNP1								Model No./product
55_Serial No.	0242-112								Serial number
56_Transfer date	2019.12.01.								Date of hidden work statement
57_Contractor	SIA "ABC"								System installation contractor (subcontractor)
58_Equipment price	N/A								The price of the installed equipment (specify if more than EUR 10,000)
59_Warranty start	2019.12.12.								Warranty start date
60_Warranty end	2021.12.11.								Warranty end date
61_Warranty conditions	/relative link								Special warranty conditions, if any
62_Use instructions	/relative link								Equipment use instructions
63_Equipment passport	/relative link								Hazardous equipment passport
64_Spec_cleaning requirements	/relative link								Specific cleaning requirements, if any
65_Maintenance conditions	/relative link								Maintenance conditions – regulations
67_Technical specification	/relative link								Technical specification

Asset information

***Equipment and elements that need to have the information specified in the data sets added**

AVK-V - Ventilation

Air processing unit (intake-exhaust, intake, exhaust), humidifier/drier, air distributor, fire safety valve, flow control throttle, silencer, cleaning hatch.

AVK-K – Climate control system

Indoor and outdoor units of the air cooling system (chillers, VRF, split, multi-split, fan coil, precise climate control equipment), shut-off valves, control valves

AVK-A – heating

Shut-off valves, control valves, thermostat heads, heating devices (radiators, convectors, warm floors, hot air curtains, radiator heat supply systems)

AVK-VD – Smoke protection

Smoke extraction fans, counterflow fans, overpressure fans, valves, automation units

GDZ - Gas fire suppression systems

Gas cylinder, gas supply nozzles, smoke detector, overpressure valve, control panel with repeater.

UK, UKT – Water supply and sewerage

Water meter, pump, shut-off valves, control valves, water distribution fittings, plumbing equipment, inspection, cleaning hatch.

EL, ELT – Power supply

Electricity meter, illuminated escape route signs, escape route lighting fixtures, switchboards, generators, UPS, lighting fixtures.

SM – Thermal mechanics

Shut-off valves, control valves, main equipment of the heating unit (heat exchangers, expansion tanks, meters, pressure gauges, etc.)

ESS – Electronic communication systems

ESS-CI – Centralised warning system

Controller, extender (router), amplifier, multimedia player, UPS, announcement station, announcement station keyboard, speakers, external speaker (horn), equipment cabinet.

ESS-PK – Access control

Controller, reader, trigger (electromagnetic latch), router, switch, server, call panel, handset, battery pack.

ESS-AS – Security alarm

Central exchange, keyboard, extender, motion sensor, glass break sensor, combined sensor, vibration sensor, magnetic sensor, infrared barrier, siren, battery pack.

ESS-TK – Electronic communications networks

Equipment cabinet, patch panel (distribution panel), router, access point, data network socket (port), UPS.

ESS-VAS – Control and automation systems

Controller, router, server, monitoring workstation, humidity sensor, temperature sensor, moisture leakage sensor.

ESS-VN – Video surveillance

Recording equipment (server), disk array, video surveillance camera, router, switch, monitoring station, UPS, equipment cabinet.

UAS – Automatic fire suppression system

Pumps, control valves, shut-off valves, hydrophores, control panel, repeater, battery pack

SPR – Sprinkler system

Pumps, valves, control unit, sprinkler bell.

UATS – Fire detecting and emergency alarm system

Panel, repeater panel, extender, smoke sensor, heat sensor, combined sensor, detectors, remote indication, aspiration system, beam sensor, siren, alarm button, module (for ventilation shutdown, elevator, access control system), battery packs.

Other

Elevator, lift, gates, barriers

Note. The list is non-exhaustive and may be supplemented with other important equipment or systems during the design, construction and facility management stage, depending on the specifics of the project. Information needs be added to elements if these elements or equipment require regular inspection, maintenance or warranty service.