

Technical specification standard

Warehouse space, Hall + In-built area

Basis solution:

Basic grid	12 x 24 m for Hall objects A, B, C 6 x 5 m for Hall object D
Clear height	Approx. 14,0 m for Hall object A resp. approx. 7,0 m for Hall objects B, C, D; approx. 2,8 m for in-built offices
Floor load capacity	7 t/m ² for main Hall objects; loading rack system – foot 150 mm x 150 mm – vertical load 55 kN, 0,4 t/m ² for in-built offices

Shell construction:

Foundation	Caps footing (+ deep foundation – concrete bored piles, in accordance with geological surveys), according structural design Pre-cast foundation elements from steel - reinforced concrete with insulation
Load bearing system	Pre-cast frame from steel-reinforced concrete, columns in modular system 12 x 24 m, on building perimeter each 6 m preparation for installation of photovoltaic panels as well as client's technology, sustainable energy supplies and environmental aspects according to local administrations on the roof (additional load)
Non-load bearing system	Brickworks for the office inbuilds Fire-resistant concrete partitioning between the Halls Plasterboard partitions thickness 100 – 150 mm and suspended ceiling from cassettes only for in-built offices
Insulation	Against soil humidity PE Foil, min. 0,1 mm thickness + radon insulation necessity in accordance with AT regulations
Floors	Wired concrete floor with steel fibre reinforcement, thickness approx. 170 mm, according to structural design, smooth finishing of the concrete floor
Facade	Façade sandwich panels, mineral wool insulation, horizontal cladding (Panel thickness min. 160 mm for mineral wool, according to thermal regulations)
Roof composition	Trapezoidal corrugated metal sheet 150 mm , steam proof insulation 0,2 mm + thermal insulation (min. 180 mm of mineral wool), PVC foil 1,5 mm thickness Preparation for installation of photovoltaic panels as well as client's technology, sustainable energy supplies and environmental aspects according to local administrations

Facade openings	<p>Windows – 5 chamber plastic profile system (double glazing) + Insulation Glass (a=1,4/1,4 m), including support load-bearing structures (for in-built areas)</p> <p>External door – 5 chamber plastic profile system + Insulation filling (a=2,1/0,9 m), including support load-bearing structures (for main Hall object)</p> <p>Interior veneered door (a=2,0/0,8 m), including door casing (for in-built areas)</p> <p>Industrial sectional manual gates, size 2,7 x 3,0 m, insulated by PUR 40 mm (a=3,0/3,0 m) with hydraulic dock levelers (length 2,5m, width 2m, dynamic load bearing capacity 6000 kg), in number approx. 1 Pcs./1000 m² for warehouse area</p> <p>Drive-in sectional gates for direct access, size 4 x 4,5m, manual</p>
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Technical objects - equipments:

Heating and ventilation	<p>Concrete core activation, heat pump in warehouse, min. heat temperature is 12°C</p> <p>Floor heating for In-built office area, heat temperate is 18 - 21°C</p> <p>Separate ventilation in social areas</p>
Air-conditioning	<p>Local air-condition units + « under surface » piping only for In-built office area, (alt.- central unit + air-handling + « under surface » piping for bigger office premises)</p>
Roof rain water drainage	<p>Under pressure PVC system, „on surface“ piping, heated inlets, (in In-built office area with “under surface” piping)</p>
Water, sewage	<p>PVC « on surface » piping, Sanitary installations, (In-built office area with « under surface » piping) - JIKA / Ideal standard</p>

Fire protection:

Fire flaps and fire transmissions	Designed according to AT/EU regulations
Hydrants	Designed according to AT/EU regulations
Fire extinguishers	Designed according to AT/EU regulations
Fire smoke exhaustion	Roof heat and smoke domes (Roof lights), Designed according to AT/EU regulations pneumatic installation is necessary
Fire alarm system	According to AT/EU regulations
Sprinkler system	Full ESFR sprinkler system in warehouse, designed according to AT/EU regulations
Escape lights	Designed according to AT/EU regulations
Fire radio	Designed according to AT/EU regulations

Electrical:

Cabling	On surface cabling in warehouse, under surface in In-built office area
Switchboard room	In accordance to AT regulations for appropriate capacity value
Sockets circuits	1 Box = 2x230V + 2x400V with circuit breaker for 24A, in number 1 Box/ 1000 m ² for warehouse space
Forklifts recharging	Under window sill board PVC cable channel, sockets 4x230V + 2x Data/ Telephone for 1 working place (15 m ²) only in In-built office area
Forklifts recharging	Forklifts charging points in the warehouse included, approx. 2pcs per 1000 m ²
Illumination	Illumination level 1,0m above floor for main Hall object min. 250 lx Illumination level 1,0m above floor 500 lx for In-built office area
Lightning and ground connection	In accordance to AT regulations

Paved areas and roads:

Footpaths	Asphalt, paving or semi-vegetalized surfaces
Personal cars parking	Asphalt, paving or semi-vegetalized surfaces
Roads and rest paved areas	Concrete pavement or concrete road construction, + road curbs, thickness 100 mm
	Road drainage system through oil traps – connection on public sewage, in accordance with AT regulations
Green area	Leveling + grass, trees
Fencing	Wire fence, fencing on yard, height approx. 2m, zinc-coated access gates
External illumination	In accordance to AT regulations, (5 - 25 lx – illumination level)

Date: 25.04.2022