



METRODOM

**TECHNICAL DESCRIPTION
APARTMENT**

1112 Budapest, Mikes Kelemen utca 30-38.

1. TECHNICAL CONTENTS OF THE BUILDING

1.1 Load-bearing structures

Foundation:	monolith water-tight reinforced concrete slab
Ascending structures:	monolith reinforced concrete load-bearing pillars, reinforced concrete stairwell and elevator cores, 30 mm thick frame walling
Slabs:	monolith reinforced concrete flat plate intermediate and terminal slabs
Stairs structure:	monolith reinforced concrete

1.2 Roof structure

Non-walkable flat roof:	6 cm thick, fractioned, \check{R} 16-32 mm grain size rounded fractioned gravel load on the thermal and water insulating layer, frost proof concrete pavers on the maintenance paths
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1.3 Staircase, corridors

Floor:	granite powder floor tiles (min 7 mm thick), colored in material
Wall:	white dispersion paint on plastered brick and reinforced concrete surfaces
Ceiling:	white dispersion paint on plastered surface, thermal insulating layer of dimensioned thickness on bottom plane of the slab above the ground floor
Entrance door to the building:	custom-made aluminum-glass portal structure, automatic shutting system, proxy card and key operated opening or via the intercom from the apartments

1.4 Dustbin storage (1 on each floor, 7 in total)

Floor:	granite powder floor tiles (min 8 mm thick), colored in material
Wall:	wall tiles up to the height of 2.10 meters, white dispersion wall paint on plastered surface above
Ceiling:	thermal insulating layer of dimensioned thickness on bottom plane of the slab
Door:	non-flammable metal doors

1.5 Stroller storage (1 in each building, 7 in total)

Floor:	granite powder floor tiles (min 7 mm thick), colored in material with 6 mm footing
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Wall:	white dispersion wall paint on plastered surface
Ceiling:	thermal insulating layer of dimensioned thickness on bottom plane of the slab
Door:	non-flammable metal doors

1.6 Bicycle storage

Implementation:	inside the underground parking lot, sharing the air-space, lockable, separated by perforated and full ceramic brick walling from the parking slots
Floor:	reinforced concrete, non-sloping structure with artificial resin coating
Wall:	exposed reinforced concrete
Ceiling:	thermal dimensioned thermal insulating tiles, reinforced concrete slab
Lighting:	ceiling lamps with motion-sensor switches, perpetual emergency lights

1.7 Elevators

Quantity:	Single cage Kone elevators without machine room, counterweight operated elevators, one in each building (7 in total)
Structure:	steel fixtures, doors and external covers with lining
Capacity:	13-person, 1000 kg capacity in buildings A and B, 8-person, 630 kg capacity in buildings C, D, E, F, G

1.8 Garden (internal court)

Implementation	intensive green roof constructed partly on the slab of the ground floor parking garage, paved walking paths, pre-planted vegetation with garden furniture, playground, swimming pool, grilling equipment
Intensive green roof:	minimum 30 cm thick lightened soil-mixture for roof-gardens
Pool:	119 cm deep, 85 sqm, perimeter-overflow pool with water purification appliance
Greenery:	80 cm thick shrub-soil, lawn, bush and deciduous trees planted in accordance with the landscaping plan
Walking paths:	decorative concrete cover
Furniture:	garden benches, garden grill, dustbins
Playground:	according to the implementation plans (climbing structure, swing, sandbox)

1.9 Security system

Camera system:	fully installed, closed circuit camera system, the cameras are installed at the ground floor entrance to the buildings and at the Mikes Kelemen and Órmezei street entrance gates to the residential complex (pedestrian entrance and vehicle driveway)
Guarding:	guards' room in Building A constructed for 24/7 watch, with heating/cooling, staff bathroom and monitors of the camera surveillance system

2. TECHNICAL CONTENTS OF THE APARTMENTS

2.1 Non load-bearing structures

Façade filling walls:	30 cm thick burnt brick wall
Apartment separation and corridor walls:	sound blocking brick wall (apartment/corridor: 30 cm thick, apartment/apartment 30 cm thick Silka HML 300 NF+GT)
Partition walls in the apartments:	10 cm thick wall, burnt brick
Blade and parapet wall:	10 cm thick burnt brick wall according to the implementation plan or two-layer plasterboard wall
Floor underlay:	Step-insulating layer and screed concrete underlay on reinforced concrete slab
Façade:	8 cm thick façade insulation system with decorative mortar cover, at least "BB – near zero energy need" energy rating
Façade cover:	stone or crushed granite cover on the façade, and decorative mortar according to the implementation plan

2.2 Balcony, terrace, private garden

Terrace construction:	Due to the order of layers, the floor plane of the terrace/balcony, in some cases, may be higher than that of the apartment. The elevation difference complies with the specifications in the implementation plan, with an internal step in case of a difference exceeding 20 cms.
Tiling:	colored in material, frost resistant crushed granite floor tiles (minimum 7 mm thick), with 8 cm high footing, bonded with flexible adhesive mortar, system compliant flexible grouting materials, silicone grouting at negative corners, mesh laying (cannot be modified, not even for a surcharge)
Private gardens:	parts of condominium owned private gardens connected to ground floor apartments are separated from traffic by hedge-

fence or other separating greenery. Pre-planted vegetation according to the landscaping plan, automated irrigation system, no modification is allowed, not even for a surcharge

2.3 Doors and windows

Entrance door:	fire protection MABISZ certified multi-point (1 latch bolt with 3 locking bolts and 2 passive lift-off preventers) security door in pressed steel door case, hard metal sheet door cover with peep hole, non-optional color (not even for surcharge)
Interior doors:	full doors with paper fill structure, optional color, in a size according to the architectural design (bathroom, toilet, wardrobe, storage 75/210, rooms 90/210)
Windows, terrace doors:	air chamber, plastic cased windows and doors with 2 layer thermal insulating glass ($u_g=1,0$ W/m ² k), one vent gap in each apartment (placed typically in the living room). Opening type is apartment specific.
Shutter preparation:	built in shutter boxes under the wall plane in the rooms for facade windows and doors, with power preparation for power driven winding. Shutter drive smart-switches can be ordered for a surcharge

2.4 Floor

Rooms:	7 mm thick laminated parquets, color matching spacers, foam underlayer and vapor isolation, abrasion resistance rating 31, in 4 selectable colors
Ante-room, kitchen, service room:	glazed ceramics tiles (min 7 mm thick), with footing, mesh laying, selectable color
Bathroom, toilet:	glazed ceramics tiles (min 7 mm thick), with footing, mesh laying in selectable colors

2.5 Wall facing, wall surface

Rooms, ante-room, service room:	white dispersed painting on plastered wall (colored painting or wallpaper is unavailable)
Bathroom, toilet:	tiles up to the height of the doors in the bathroom, up to the height of 1.5 meter in the toilet, glazed ceramics (min 7 mm thick), plastic edge protectors at the positive corners, optional colors and tile arrangement
Kitchen:	tile cover between 85 and 145 cm height in a 60 cm stripe. Glazed ceramics tiles, white plastic edge protectors at positive corners, mesh laying, optional colors

2.6 Heating and air conditioning

System:	<i>Dual Eco Plus</i> combined cooling-heating system, smart-home integrated controlling, individual metering
Furnace:	a combined system of condensing gas furnaces and air to air heat pumps deployed in each building
Wiring:	wires serving heating and cooling in the slab (ceiling) for heating and cooling the ceiling surface
Heating:	ceiling surface heating in the bedrooms, the living room and in the bathroom with smart-home integrated temperature and humidity gauging thermostats and in the bathroom auxiliary electricity heated towel drying rails (white)
Cooling:	ceiling surface cooling in the bedrooms and the living room, with smart-home integrated temperature and humidity gauging thermostats
Ventilation restrictions:	during times of humid weather and when a summer thunderstorm does not cool down temperature but does increase humidity, the system will temporarily shut down and then automatically restart cooling. To avoid the apartment heating up, airing should be postponed to a later time.
Cooling and shading:	to provide for the efficient operation of the cooling system, windows and doors should be kept shut and shading ensured

2.7 Water and sewage

Water pipes:	the base and uptake pipework of sanitary cold and hot water is made of plastic or galvanized pipes, the branch pipes inside the apartments are five-layer plastic pipes running in the wall and the floor
Sewage disposal:	plastic pipework in the bathroom and the toilet
Consumption meter cabinet:	heat volume meters connected to the heating system installed in wall cases in the corridors, separate meters connected to the cold and hot water systems

2.8 Ventilation

Ventilated rooms:	internal (with no natural ventilation) rooms bathrooms, toilets and service rooms (storage)
Ventilation system:	duct system made up of metal air duct elements, individual, switch operated fan ventilation in the toilets and bathrooms, connectivity placed on shaft-wall plane for optional kitchen hood. Storage and service rooms gravitational ventilation. Air is extracted above the ceiling plane
Ducts:	in shaft, metal ventilation ducts

2.9 Sanitaryware and fixtures

Wash basin:	porcelain, white, <i>Villeroy & Boch O.novo</i> , or similar
Handwash basin:	only in separated toilets, porcelain, white, <i>Villeroy & Boch O.novo</i> or similar
Bathtub:	acrylic white steel plate bathtub, 170 cm in length, built-in, tiled fore-wall, chrome sinkpipe and spiller (only in bathrooms where bathtub is marked on the layout plan)
Shower tray:	white, enameled steel plate, 90x90 cm, chrome sinkpipe (shower cabin is not part of the technical contents)
Tap:	<i>Hansgrohe Logis</i> or similar, chrome plated mixer taps for basins, showers and bathtubs. Handheld shower with fixed holder for the bathtub taps, handheld shower with shower rod for the shower taps (mounting of fixed holders and rods is the responsibility of the owner)
WC:	<i>Villeroy & Boch O.novo</i> or similar, porcelain, deep flush, wall mounted toilet bowl, concealed cisterns built into the wall, two-plate design for long and short flushing
Washing machine connector:	wall mounted with outlets to the sewage network and cold water supply in the bathroom and in service rooms where indicated on the layout plan
Dishwasher connector:	water supply through the combined sink valve and draining outlet through the combined sink valve. (Kitchen sink and valves are not part of the technical contents)

2.10 High voltage power network

Meter cabinet:	ELMÚ certified meters of the apartments are grouped according to floor levels and placed electricity meter rooms
Capacity, configuration:	according to the applicable standards, 1x32 A in studios and 1-bedroom apartments, 3x16 in the bigger ones. To ensure future expandability, the cables running to the apartment distributors are 5x10 mm ² . (installation of compatible consumption meter and power switches lie with the owner, at her/his cost)
Electric fitting:	the entire electric fitting is implemented according to MSZ EN-60364 standard. Shock protection by neutralizing for the building (TN-C-S network) complemented with EPH network. Shock protection inside the apartments is provided by a dedicated FI relay

2.11 High voltage electric fittings

Sockets:	white, plastic fittings
Light switches:	smart switches, touch-control with manual switching option, white

Kitchen stove:	connector as indicated on the layout plan, only electric stoves can be installed in the apartments
Number of sockets:	2-4 pcs in the rooms, 2-4 in the kitchen above the kitchen counter, 1 socket for the refrigerator, the dishwasher and the hood each. 1 socket above the washbasin (next to the mirror spot) and 1 for the washing machine in the bathroom. The number and location of sockets in the rooms and the kitchen are defined in the electric implementation plan, which may be reviewed upon request at the technical consultation

2.12 Low voltage power network and electric fittings

Phone/cable Tv:	conduit and wiring in the living room and the bedrooms, 1 double connector in each. Contracting a telecommunication services provider is the responsibility of the buyer
Telecommunication services provider:	the telecommunication network of the building and the apartments will be built by the selected telecommunication services provider, wires and cables running through common spaces, through which services may be accessed, will be owned by the service provider. Alternative service provider may only provide services upon the decision of the house assembly following the formation of the residential community
Intercom:	without separate indoor unit, controlled via the smart home control panel, external units at the entrances to the stairways and at the street front entrance gate

2.13 Smart home system

General description:	turnkey installation of a <i>Z-wave</i> compliant, radio wave based, expandable system. A personal computer, smartphone or tablet connected to the internet is necessary to personalize, program and remotely control the devices. Ensuring the availability of these devices is the responsibility of the owner
Control panel:	Zipato Zipatile2 or identical, 8", 800x1280 pixel resolution touchscreen for controlling the basic functions of the system, 230V power feed
Thermostat head unit:	remote access and programmable (through the internet) digital wall thermostat, one in each room, manual thermal control option, digital temperature displays
Close/open sensor:	1 sensor per window/door detecting the open/close status of windows and doors. Battery is not replaceable, power is provided for the entire lifetime (10 years) of the product, after which the sensors must be replaced
Motion sensor:	1 Everspring motion sensor in the ante-room to detect the opening of the front door and to automatically control the lighting in the ante-room. The motion sensor has no security or property protection function

Smartlights: *MCO Home*, or identical smart-switch, touch controllable, can also be controlled manually, in white color. Radiance control may not be ordered, not even for a surcharge. A kitchen counter without a dedicated switch or other type of lighting core is not part of the smart home system

2.14 Lighting

General description: standard wire network with cores. 1 piece E27 socket lightbulb per room. Core placement is done according to the power design plan and may be reviewed at consultations.

Room, ante-room: one core on the ceiling in each, separate ceiling core above the dining table (unless the dining table is placed in the kitchen as shown on the layout plan)

Bathroom: 1 core mounted on the ceiling with receptacle and bulb, 1 separate core on the wall at a height of approx. 200 cms above the washbasin

Kitchen: 1 ceiling mounted core with receptacle and lightbulb, 1 separate wall mounted core for kitchen cabinet lights in a height of approx. 150 cm

Balcony, terrace: lights on the sidewall or the ceiling with bulb and shade (non-selectable), indoor switch. Façade mounted are positioned according to the plan, uniform implementation in every apartment (no modification option)

3. OPTIONAL SELECTIONS AND MODIFICATIONS, MISCELLANEOUS PROVISIONS

The technical contents defined by the site map and this technical description can only be changed within the specified scope and until the specified deadline. In this period of the construction all the deadlines are closed.

4. DIMENSION AND SIZE DEVIATIONS

4.1. The Seller informs the Buyer that sizes and dimensions indicated in the layout plans and the total surface area indicated on the layout plans, attached as an annex, were calculated with non-plastered, raw brick walls and concrete pillars, plasterwork and tiles will cause the eventual sizes and dimensions to be smaller.

4.2. Net interior ceiling height of apartments is at least 263 cms. Areas with plasterboard covered machinery cables running underneath the ceiling must be at least 220 cm in height.

Buyer has received the present technical description from the Seller and understood its contents and, regarding the property described herein and pursuant to the stipulations of the sales contract concluded between the Parties, accepts its terms.

In approval of the present technical description, Parties have read, interpreted and signed the present (pre)sales agreement as it is in full accordance with their contractual will.

Budapest, 2021.

Metrodom Zöldmező Kft.
Seller

Buyer

Buyer