



Complex of detached houses in Zabierzów at st. Kamienna (building F1, F2 - stage II)

**UPPER-END STANDARD FOR A SINGLE-FAMILY HOUSE
IN SEMI-DETACHED HOUSES**

Walls	<ul style="list-style-type: none"> - Load-bearing walls: traditional reinforced concrete and brick construction, insulated with foamed polystyrene (under the thin-coat finish) and mineral wool (under the wooden elements), - Partition walls: in drywall technology
Upper floor slab	Reinforced concrete
Facade	<ul style="list-style-type: none"> - BAUMIT thin-coat silicate render, - Siberian spruce façade panel
Roofing	Steep roofing tile sheet, PVC gutters and downspouts
Window joinery and balcony door	<ul style="list-style-type: none"> - PVC windows and balcony doors, triple glazed package, with circumferential window fittings, ceasment and tilt-and-turn windows, some of them with trickle vents, glazing set with heat transfer coefficient of $U < 1.1 \text{ W/m}^2\text{K}$ - wood veneer on both sides - FAKRO wooden roof windows
Entrance door of the house	Anti-burglary GERDA OPTIWA LIZBONA RC3 with C class cylinder
Exterior window sills	Steel, powder-coated
Interior sills	For individual finishing
Stairs	<ul style="list-style-type: none"> - Reinforced concrete entrance door from the ground level (level of parking place under the building) to the vestibule on the ground floor of the building - Inside stairs from the vestibule to the ground floor - reinforced concrete to be finished individually - Inside stairs from ground floor to attic - reinforced concrete for individual finishing

Interior wall coating	- Gypsum based plasters - Attic: gypsum boards
Floors	Cementitious levelling screed in one level on the floor
Internal door joinery	To be individually manufactured
Terraces/balconies/balustrades	- On the ground floor: wood - On the first floor: wood - Partition between terraces: wooden - Galvanized steel balustrades with powder coating
Internal/external electrical system	Individually metered, with ground fault interrupter, fittings (sockets, switches, 3 phase outlet to connect an electric cooker with ceramic or induction hob), sockets on terraces, outlets for external lighting, prepared for the installation of photovoltaic panels, a circuit to supply a pump in a rainwater storage tank
Internal systems - cold and hot water	Individually metered, with hookups to the equipment and fixtures (without sanitary ware), outside with water tap (garden), domestic hot water tank.
Heating system	- Gas, individually metered, central heating with programmer, dual purpose gas boiler by Viessmann with closed combustion chamber, - Hydronic radiant floor heating by Tweetop, - In the bathrooms, the "towel heater"
Internal sewage system	PVC piping, hookups to appliances
Telecommunication/internet system	Ducting with a pilot rope to enable the installation of one socket on the ground floor and first floor (2 locations), without fittings, ducting with entry to the roof for the photovoltaic installation
Intercom system	Wiring with video intercom (2 pieces) opening gate and gateway to the housing estate
TV antenna system	Ducting enabling installation to one SAT outlet on the ground floor and first floor (2 locations), DVB-T antenna
Ventilation	Gravity ventilation, blow to fireplace
Flue ducts	For gas boiler and fireplace

Road	All purpose road to st. Kamienna with cobblesett, a walking route to st. Topolowa
Gateway	Gateway with electric drive opened by remote control and intercom from every house
Gate	Gate opened with intercom from each building
Fencing of the housing estate	Coated mesh, height approx. 1.70 m
Estate lighting	<ul style="list-style-type: none"> - Along the footways and roadways, lamps on buildings - Metering of lighting, gateway drive and gate opening - common for all houses
Technical infrastructure within the estate	<ul style="list-style-type: none"> - Sewage system, - Rainwater drainage system with a drainage network and rainwater retention tanks (with a possibility of installing a pump) - Water mains, gas mains, - Power supply - Telecommunication conduit system
Area	Grassed and seeded, graded