



**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**

<b>Walls</b>	<ul style="list-style-type: none"> <li>- 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),</li> <li>- Partition walls: 30m<sup>2</sup> of partition walls in KNAUFF drywall technology for individual arrangement</li> </ul>
<b>Upper floor slab</b>	Reinforced concrete
<b>Facade</b>	<ul style="list-style-type: none"> <li>- BAUMIT thin-coat silicate render,</li> <li>- Siberian spruce façade panel</li> </ul>
<b>Roofing</b>	Steep roofing tile sheet, PVC gutters and downspouts
<b>Window joinery and balcony door</b>	<ul style="list-style-type: none"> <li>- 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 <math>U &lt; 1.1 \text{ W/m}^2\text{K}</math> - wood veneer on both sides</li> <li>- FAKRO wooden roof windows</li> </ul>
<b>Entrance door of the house</b>	Anti-burglary GERDA OPTIWA LIZBONA RC3 with C class cylinder
<b>Exterior window sills</b>	Steel, powder-coated
<b>Interior sills</b>	For individual finishing
<b>Stairs</b>	<ul style="list-style-type: none"> <li>- 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</li> <li>- Inside stairs from the vestibule to the ground floor - reinforced concrete to be finished individually</li> <li>- Inside stairs from ground floor to attic - reinforced concrete for individual finishing</li> </ul>

<b>Interior wall coating</b>	- Gypsum based plasters - Attic: gypsum boards
<b>Floors</b>	Cementitious levelling screed in one level on the floor
<b>Internal door joinery</b>	To be individually manufactured
<b>Terraces/balconies/balustrades</b>	- On the ground floor: wood - On the first floor: wood - Partition between terraces: wooden - Galvanized steel balustrades with powder coating
<b>Internal/external electrical system</b>	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
<b>Internal systems - cold and hot water</b>	Individually metered, with hookups to the equipment and fixtures (without sanitary ware), outside with water tap (garden), domestic hot water tank. 200dm <sup>3</sup> with hot water circulation
<b>Heating system</b>	- Gas, individually metered, central heating with programmer, gas boiler with closed combustion chamber, with domestic hot water tank, - Hydronic radiant floor heating or traditional heating with radiators - In the bathrooms, the "towel heater"
<b>Internal sewage system</b>	PVC piping, hookups to appliances
<b>Telecommunication/internet system</b>	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
<b>Intercom system</b>	Wiring with video intercom (2 pieces) opening gate and gateway to the housing estate
<b>TV antenna system</b>	Ducting enabling installation to one SAT outlet on the ground floor and first floor (2 locations), DVB-T antenna
<b>Ventilation</b>	Gravity ventilation, blow to fireplace
<b>Flue ducts</b>	For gas boiler and fireplace

## LAND DEVELOPMENT

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