



IZOME Slab

Simultaneous thermal insulation
and floor screeding
Ultra-lightweight dry concrete
Increased acoustic comfort



Flooring and Sloping Operations

Flooring and sloping are operations carried out for the purpose of leveling the surface or directing surface water toward drains.

Thermal Insulation Challenges

Typically, the thermal insulation of building floors in contact with the outside environment—such as the roof, the ceiling above the parking area, or floors in contact with the soil—is done by applying a layer of thermal insulation like rock wool or XPS, followed by pouring a layer of lightweight concrete over it. However, due to the shifting or compressibility of the insulation layer, this often leads to surface cracking.

The Solution

By using IZOME ultra-lightweight concrete, you can reliably execute both thermal insulation and flooring in a single layer with the lowest possible weight.



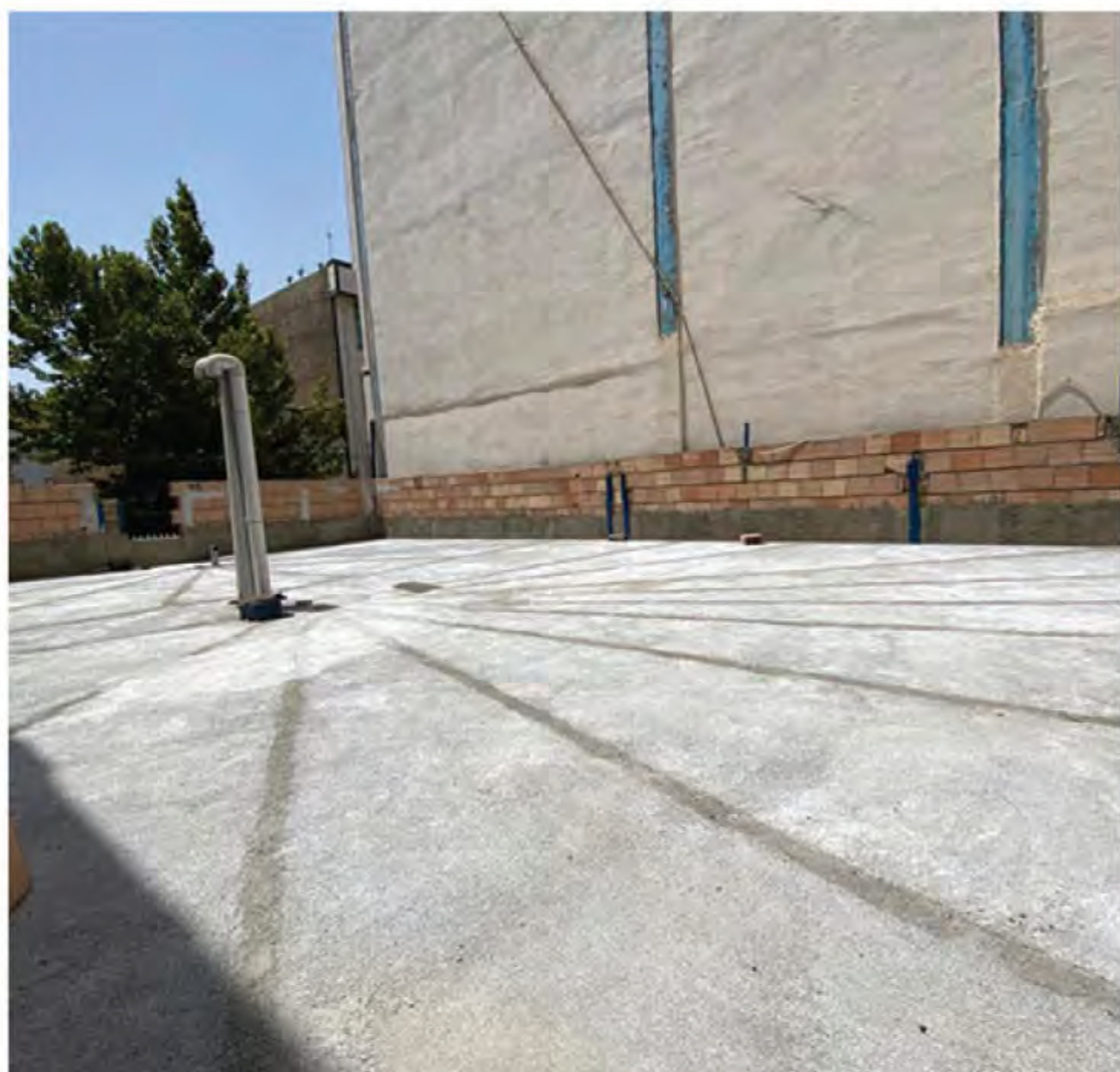
Technical Specifications of Various IZOME Types

Technical Specifications	IZOME Light 110	IZOME 250	IZOME Fine 300	IZOME XX 500	IZOME Speed 525	IZOME Max 800
Dry Density (kg/m³)	110	250	300	500	525	800
Specific Weight (Dried Mortar) ±10%	130	265	350	515	540	815
Thermal Conductivity Coefficient (λ W/mK)	0.043	0.067	0.080	0.095	0.095	0.176
28-day Compressive Strength (N/mm²)	0.528	0.83	1.80	2.24	2.24	≥ 4.0
Water Vapor Permeability (μ)	0.43	0.43	0.43	0.43	0.43	0.43
Moisture Resistance	Anti-rot					

The values in the table above were determined under monitored conditions.



IZOME ROOF RFS



Application Scope of IZOME Product

- Thermal insulation and roof sloping
- Thermal insulation and flooring over the parking lot
- Ultra-lightweight flooring for building stories
- Insulation and flooring for floors in contact with the ground
- Ultra-lightweight filler for leveling uneven surfaces
- Replacement for thermal insulation layers (XPS, rock wool, etc.)
- Sloping concrete in various types of flooring

