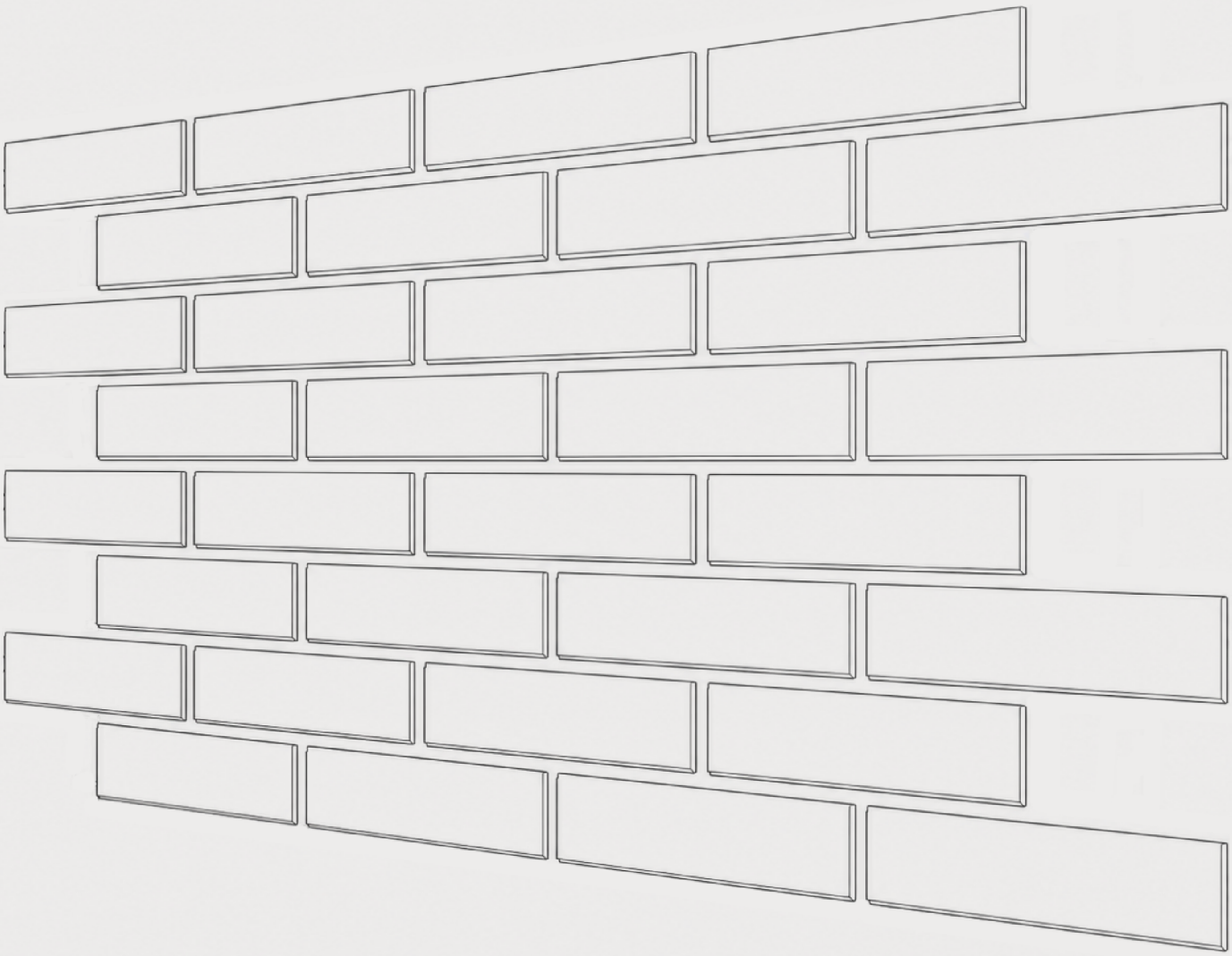
Technical Specification

Detailed Data.
Trusted Performance.



Afdal Tariqah

THERMAL PANELS & FACADE SOLUTIONS

Product Description

Product description	Glazed ceramic tile
Type of body	Gray body
Surface	Matt
Dimensions (L x W)	245 x 65 mm
Thickness	8.5 & 12 mm

Physical and Mechanical Properties

Physical / Mechanical Property	Standards Used	Requirements	Actual Values
Permissible deviation in length and width	ISO 10545-2	2.0 mm	< 2.0 mm
Permissible deviation in thickness	ISO 10545-2	0.5 mm	0.2 mm
Water absorption, %	ISO 10545-3	0.5 ≤ E ≤ 3.0	0.5 ≤ E ≤ 3.0
Breaking load	ISO 10545-4	≥ 1100 N	≥ 1550 N
Flexural strength	ISO 10545-4	≥ 30 MPa	≥ 34 MPa
Abrasion resistance	ISO 10545-7	Min. Class 1	Class 2
Linear thermal expansion	ISO 10545-8	≤ 90 × 10^{-7}	≤ 70 × 10^{-7}
Thermal shock resistance	ISO 10545-9	Resistant	Resistant
Crazing resistance	ISO 10545-11	2 hours, 5 bar	2 hours, 6 bar
Frost resistance	ISO 10545-12	100 cycles	150 cycles
Resistance to acids and alkalis	ISO 10545-13	Min. Class B	Min. Class B
Resistance to household chemicals	ISO 10545-13	Min. Class B	Min. Class B
Stain resistance	ISO 10545-14	Min. Class 3	Min. Class 5

Packing and Loading Standards for 8.5 mm thickness

Per Box		Per Pallet			Per Truck			
Pcs	**m²**	**Pcs**	**Boxes**	**m²**	**Pcs**	**Boxes**	**Pallets**	**m²**
46	0.73	5,382	117	85.71	91,494	1,989	17	1,457.04

Packing and Loading Standards for 12 mm thickness

Per Box		Per Pallet			Per Truck			
Pcs	**m²**	**Pcs**	**Boxes**	**m²**	**Pcs**	**Boxes**	**Pallets**	**m²**
32	0.51	3,744	117	59.62	63,648	1,989	17	1,013.59