



# Alucompact

## Technical Data and Certifications

### MATERIAL PROPERTIES TESTED IN ACCORDANCE TO EN 438-2 (average value of production control) - Classification CGS

Properties	Norms	Unit	Alucompact	Alucompact Arrigo	Alucompact 4, Alucompact 3 Mark <sup>1)</sup>
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#### Physical data

Apparent density	DIN 52350/ISO 1183	g/cm <sup>3</sup>	ca. 1,55	ca. 1,55	ca. 1,65
Thickness (e.g.)	EN 438-2, point 5	mm	10	10	10
Weight		kg/m <sup>2</sup>	15,5	15,5	16,5

#### Mechanical properties

Resistance against stress abrasion	EN 438-2, point 10	U	450	450	450
Falling ball impact resistance	EN 438-2, point 21	mm			
Resistance against scratching	EN 438-2, point 25	degr./ scratch r.	3 4N	3 4N	3 4N
Flexural strength	EN ISO 178	Mpa	200	200	200
E-Modulus	EN ISO 178	Mpa	18000	18000	18000
Tensile strength	EN ISO 527-2	Mpa			
Susceptibility to cracking	EN 438-2, point 24				

#### Thermal properties

Dimensional changes during climatic changes, measured at elevated temperatures	EN 438-2, point 17	length. %	0,15	*	*
		cross. %	0,25	*	*
Resistance to boiling water	EN 438-2, point 12	%	0,3	*	*
Coefficient of thermal expansion	DIN 52328	1/K			
Thermal conductivity		W/mK			
Resistance to vapour diffusion		μ	730000		
Surface resistance	DIN 53482	Ohm			
Resistance to cigarette burns	EN 438-2, point 30	Degree	5 - no visible changes <sup>2)</sup>	5 - no visible changes <sup>2)</sup>	5 - no visible changes <sup>2)</sup>
Resistance to hot soucepans	EN 438-2, point 16	Degree	5 - no visible changes, no blisters or cracks <sup>3)</sup>	5 - no visible changes, no blisters or cracks <sup>3)</sup>	5 - no visible changes, no blisters or cracks <sup>3)</sup>
Heating value		MJ/kg			

#### Optical properties

Light fastness	EN 438-2, point 27	Level	6-8	6-8	6-8
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1) Properties for Alucompact 3 Mark are similar to those of the Alucompact 4

2) Slight change in glossy finish, yellow or light brown colours are permitted by EN 438

3) Slight change in glossy finish permitted by EN 438

\* These qualities are only suitable for inner lining. The panels should not be exposed to high fluctuations of temperature or moisture.  
(Recommended range: +15 - +35°C, 30 -70% rel. to air moisture)



## REACTION TO FIRE CLASSIFICATION

Standard Class 2

Europe EN 13501-1 Euroclass	D-s2, d0
Austria A3800/1	Tr1, Q1
Germany DIN 4102	B2