

Granite[®] Comfort

Properties	<ul style="list-style-type: none"> • High solar reflectance performance • Very good resistance to solar radiation • Good corrosion resistance • Good formability • Thermosetting paint • Surface treatment and paint: free of hexavalent chromium and heavy metals 	
Applications	External building and general industry: sandwich panels, insulated systems, single profiles Building projects with low energy consumption requirement	
Description	Thickness ⁽¹⁾	25 microns
	Composition	Front: 5 microns primer + 20 microns top coat Back: 5, 7, 10 or 12 microns backing coat Double-side finish available
	Gloss (Gardner 60°) ⁽¹⁾	Usual: 30 GU Other gloss levels on request
	Colours	Colour palette, specific colours on request
	Total Solar Reflectance (ASTM E903-96)	≥ 25%
	Appearance	Smooth Grained and wrinkled on request
	Temporary protection (optional)	Self-adhesive film or heat-sealed film on smooth coating
Performance	Adhesion of the coating (T-bend)	≤ 1 T
	Resistance to cracking on bending (T-bend)	≤ 2 T
	Impact resistance	18 J
	Surface "pencil" hardness	HB to H
	Clemen scratch resistance	≥ 2 kg
	Corrosion resistance:	
	• Salt spray test	360 hours
	• Corrosion resistance category	RC3
	Condensation resistance (QCT)	1000 hours
	UV resistance:	
	• QUV (UVA + H ₂ O) test (2000 hours)	ΔE ≤ 3; GR ≥ 60%
	• UV resistance category	RUV3
	Fire behaviour classification (EN 13501-1)	A1
	Resistance to acids and bases	Good to very good
	Resistance to solvents:	
	• Aliphatics and alcohols	Very good
	• Ketones	Low
	• Aromatics	Good to very good
	Resistance to mineral oils	Very good
	Maximum continuous operating temperature	100°C
Guarantee	<ul style="list-style-type: none"> • Non-perforation of the sheet metal • Non-delamination of the paint • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%) 	<ul style="list-style-type: none"> ≤ 10 years, depending on the external environment ≤ 10 years, depending on the external environment ≤ 5 years, depending on the geographic location and the paint colour category
Remarks	<p>These performance characteristics refer specifically to metallic coating Z225 and Optigal[®] ZM100 (guaranteed minimum). If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p>	

(1) Nominal value, tolerance according to EN 10169