

Granite[®] HDX

Nspired by Nature



Properties

- Very good UV resistance
- Excellent corrosion resistance
- Very good formability
- Robust coating
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

External uses in severe environments: profiles, sandwich panels for roofing and cladding, building materials (tiles, guttering etc)

Description

Thickness ⁽¹⁾	55 microns
Composition	Front: 25 microns primer + 30 microns top coat Back: 10 or 12 microns backing coat Double-side finish available
Gloss (Gardner 60°) ⁽¹⁾	30 GU Other gloss levels on request
Colours	Colour palette Other colours on request
Appearance	Grained
Temporary protection (optional)	Not applicable

Performance

Adhesion of the coating (T-bend)	≤ 1 T
Resistance to cracking on bending (T-bend)	≤ 1.5 T
Impact resistance	18 J
Clemen scratch resistance	≥ 3 kg
Corrosion resistance: • Salt spray test • Corrosion resistance category	700 hours RC5
Condensation resistance: • QCT test • Corrosion protection (interior) category	1500 hours CPI4
UV resistance: • QUV (UVA + H ₂ O) test (2000 hours) • UV resistance category	ΔE ≤ 2; GR ≥ 80% RUV4
Fire behaviour classification (EN 13501-1)	A1 for colour class 1 to 4, A2 for metallic colour class 5
Resistance to acids and bases	Good to very good
Resistance to solvents: • Aliphatics and alcohols • Ketones • Aromatics	Very good Low Good to very good
Resistance to mineral oils	Very good

Automatic guarantee

• Non-perforation of the sheet metal	≤ 35 years, depending on the external environment
• Non-delamination of the paint	≤ 35 years, depending on the external environment
• Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)	≤ 5 years, depending on the geographic location and the paint colour category

Remarks

These performance characteristics refer specifically to metallic coating Z225 and ZA200 (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 batch to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

(1) Nominal value, tolerance according to EN 10169