

Granite[®] HDS

Nspired by Nature



Properties

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

Applications

External uses: construction (cladding, roofing and accessories)

Description

| | |
|------------------------------------|---|
| Thickness ⁽¹⁾ | 35 microns |
| Composition | Front: 15 microns primer + 20 microns top coat Back: 5, 7, 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 | Smooth, grained |
| 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 | ≥ 2.2 kg |
| Corrosion resistance: • Salt spray test • Corrosion resistance category | 500 hours RC4 |
| Condensation resistance (QCT) | 1500 hours |
| 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 |
| 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 ≤ 20 years, depending on the external environment
- Non-delamination of the paint ≤ 20 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 (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