



ewings

ALUMINUM SHEETS



e-wings is a product by eCoils

Technical Datasheets for Aluminium



TECHNICAL FEATURES

Normative Reference

UNI EN 485-2; UNI EN 485-4; UNI EN 573-3

COIL DIMENSION GUIDELINES

Alloys	Width	Thickness	H Note
3005	500 / 650 / 1010 / 1310	0,7	41 for double seam
3005	1250 / 1500	0,6 / 0,8 / 1 / 1,2 / 1,5	42 for tinsmithing, facades, embossing and other processing
5005	1250 / 1500	0,6 / 0,8 / 1 / 1,2 / 1,5	42 44 for even better folds
5754	1250 / 1500	0,6 / 0,8 / 1 / 1,2 / 1,5	41 the best combination of fold and hold

COIL DIMENSIONAL CHARACTERISTICS

Alloys	H	Thickness	Width	Length MIN.	Length MAX.
3005	42	0,8	1500	2000	4000
3005	42	1	1500	2000	4000
5005	44	1	1250 / 1500	2000	4000
3005	42	1,2	1500	2000	4000



NOTE Other sizes and alloys are available. For info contact the sales office directly.

FINISHES

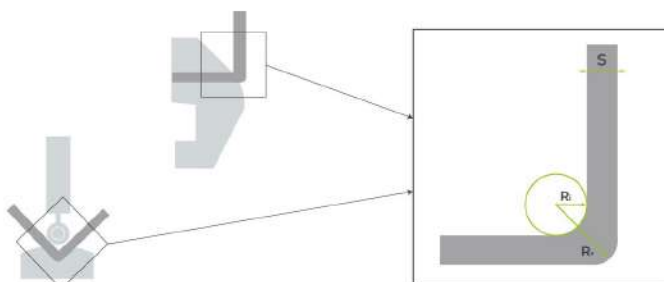
Upper face coating

1. Wrinkled finish with 40 mcr.
2. Wrinkled finish with 25 mcr.

Lower face coating

1. Wrinkled finish with 40 mcr.
2. Smooth finish with 25 mcr. *
3. Back in matching 15 mcr.
4. Painting for bonding
5. Foamable primer
6. Protective primer

FOLD RADIUS



S : Thickness
Ri : Inner radius of fold
Re : Outer radius of fold

*Minimum order quantity required

Colors and Finishes smooth

SOLID COLOR



Mo98 Simil Ral 9010



Mo153 Br.White



Mo136 Silver



Mo102 White-Gray



Mo195 Simil Ral 1015



Mo100 Simil Ral 1013



Mo99 Simil Ral 7016



Mo167 Black

Colors and Finishes Wrinkled

SPECIAL EFFECTS



Wood Effects



Corten Effects



Copper



Titanium Effects

COLORS ESKIN



Damask Eskin



TDM ESKIN



RAL 7022 ESKIN



NOTE Orders > of 3 tons, color upon request

GENERAL FEATURES

General Features	Testing	Test results	
		Finishes wrinkled	Smooth finishes
Brilliance	UNI EN 13523-2	Solid colors: 20-90 gloss	Solid colors: 20-90 gloss

MECHANICAL CHARACTERISTICS

General Features	Testing	Test results	
		Finishes wrinkled	Smooth finishes
Impact test	UNI ISO 6272	no detachment	
Adherence	UNI ISO 2409	no detachment	
Deep-drawing	UNI ISO 1520	no detachment	
Adhesion after deep drawing 6mm	UNI EN 13523-6	Excellent	Good
Adhesion after fold	UNI EN 13523-7	< 1 T	L 1,5 T
Pencil hardness	UNI EN 13523-4	F - H	
Resistance to cracking (T-fold test): All Products	UNI EN 13523-7	F - H	
Aluminum		$\leq 3 T$ (no cracking) $\leq 1 T$ (no cracking) $\leq 1,5 T$ (no cracking) $\leq 2 T$ (no cracking)	
Aluminum			
Aluminum			
Abrasion resistance	UNI EN 13523-16	Weight loss 30 - 35 mmg	
Resistance to rapid deformation (impact test)	UNI EN 13523-5	16 J there is no evidence of any cracking under magnification 10x	

TECHNICAL DATA

	Description	Specifications
Polyethylene protective film	Thickness 70 μ m : • transparent • black and white • black and white with laser cut	-Regulatory references: N/R; -Item on request; -Various levels of adhesiveness available; -Ideal for protecting laminates from dirt and scratches during processing.





MECHANICAL CHARACTERISTICS

Characteristics chemical and physical	Testing	Test results	
		Finishes wrinkled	Smooth finishes
Saline fog	UNI ISO 9227	resistance 1000 hours	
Resistance to fluorescent light UV and water condensation	UNI EN 13523-10	2000h UVA 340 residual gloss > 80 % of value initial UV resistance category: RUV 4	
	Solid Colors	2000h UVA 340 residual gloss > 50 % of value initial UV resistance category: RUV 3	
Water resistance	UNI EN 13523-9	there are no adhesion losses or boils	
Resistance to 100% humidity relative: all products	ASTM D 2247-94	1000h no formation of blisters	

PATENTED

Patented	Testing	Test results	
		Finishes wrinkled	Smooth finishes
Classification of resistance to fire for construction	EN 13501-1:2007	A2	A2

Standards for storage and processing

TRANSPORT

T.1 Transportation must be carried out under conditions that ensure protection of the material from moisture and condensation.

Arrangement on the vehicles must ensure protection of the material from impact, abrasion and tipping.

STORAGE

D.1 Coils or pallets of pre-coated sheets should be stored in covered places or sheltered from temperature changes to avoid the danger of condensation, which could cause staining on metal substrate or problems with detachment of the protective film.

D.2 Materials protected by the self-adhesive polyethylene temporary protection film should be placed away from heat sources and not exposed to sunlight.

PROCESSING

L.1 Materials should preferably be processed (within six months of shipment) with special equipment to avoid abrasion on the surface.

L.2 Profiling rolls or bending tools should take into account not only the finished thickness of the sheet metal but also any tolerances, thus avoiding re-rolling.



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