

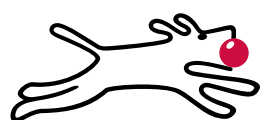
kloeckner metals

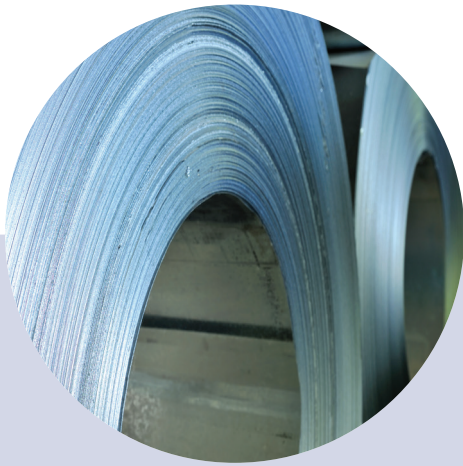
UK

55HX[®]

THE ALUMINIUM SOLUTION FOR
DESIGN AND EXTERIOR
ARCHITECTURE

ENTRUSTED TO DELIVER METAL SOLUTIONS



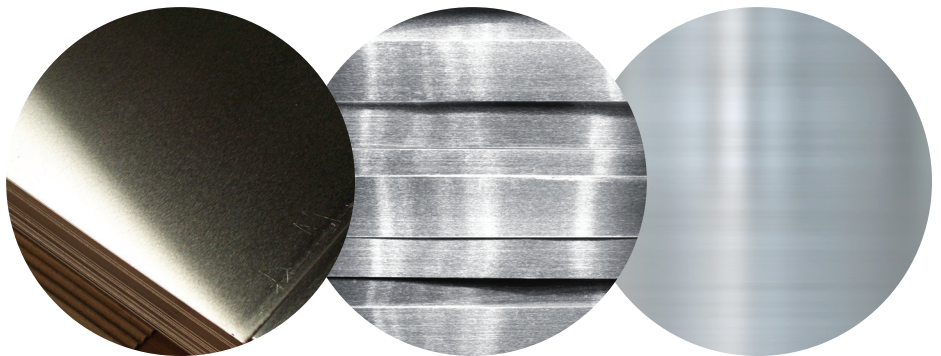


55HX®

55HX® was developed in order to fulfil contemporary demands on modern interior and exterior architecture. Thanks to its composition, 55HX® is especially suitable for decorative anodisation.

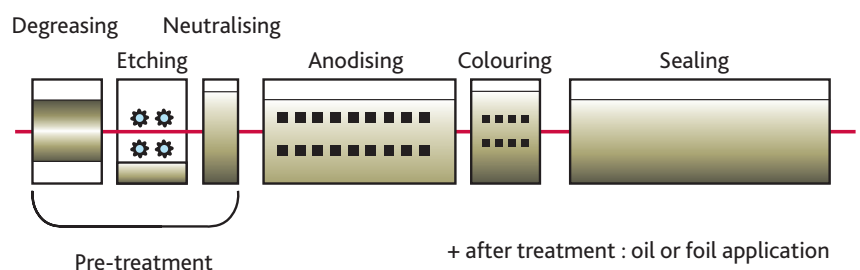
The material can be processed easily and thus gives the architects and designers the possibility of creating miscellaneous styles and objects with unique appearance. Last of all it is the objective to combine functional efficiency with a stylish design that at the same time is based on quality and durability. For all these applications 55HX® is available in mill finish or anodized.

55HX® complies with the EN 5005 H14 (AlMg1) with an optimised chemical composition and excellent mechanical properties.



Anodising Process

- "Anodising" grows a controlled protective layer of aluminium oxide on the surface of the metal substrate.
- Anodised aluminium is extensively used for building exteriors, where the aluminium is exposed to adverse environmental conditions.



The chemical composition and the manufacturing process are maintained within strict tolerances so that a uniform colour can be achieved

In order to achieve optimal colour uniformity, high-technical knowledge of treatment is the key. For example, etching must be deep enough (min. 15µ on the visible side) in order to reach a stable surface quality and to avoid possible differences in reflection. Narrow thickness tolerances of the anodizing layer, limited up to 25µ, are an important factor for colour uniformity.

A uniform colour is only obtained if the material was pre-treated before anodizing (de-greasing and removing of the natural oxide layer). It is obvious that constant process parameters must be guaranteed at all times.

Capabilities & Composition

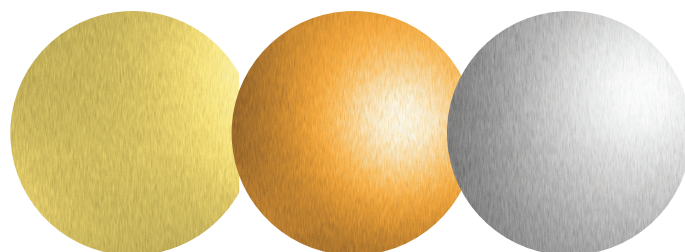
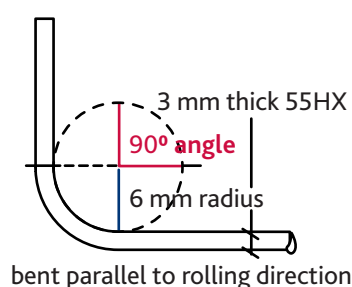
55HX® complies with EN 5005 H14 (AlMg1) with an optimized chemical composition and excellent mechanical properties.

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The chemical alloy is represented in weight percent. The values represent the maximum, apart from Mg where the proportion lies within the limits 0.5 - 1.1.

Bending Test

55HX® anodising quality, 3mm thickness is bent under 90° angle and with a bending radius of 2 times the material thickness.



(*) Colour uniformity of 55HX® is guaranteed between product batches when processing guidelines are met and after mutual agreement.

Key Benefits:

- Anodising free of streaks
- Colour uniformity between product batches (*)
- Excellent Flatness
- Outstanding formability
- After anodizing, weather, corrosion and UV-resistant
- Scratch resistant

55HX® inspires further creativity:

- Expanding
- Perforating
- Bending
- Natural or colour anodising

Chemical Composition EN 5005

Si	Fe	Cu	Mn	Mg	Cr	Zn	Others
0.30	0.70	0.20	0.20	0.5-1.1	0.10	0.25	0.15

Delivery possibilities

		Thickness (mm)	Width (mm)
55HX®	Coil	0.3 - 5	Up to 1,650
55HX®	Sheet	0.6 - 5	Up to 1,650



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UK

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