

Alloy 5005

5000 series | Reference sheet | Data checked 14 October 2026

A magnesium-containing wrought sheet alloy used for decorative architectural panels and anodized finishes; Fairview documents its H34 panel material.

Scope: Selected H34 panel facts only; single manufacturer source; source calls numerical data typical despite its requirements heading.

This reference sheet is not a material certificate, procurement specification or source of design allowables. Values apply only to their listed form, temper and condition. Confirm current requirements with the supplier and governing standard.

Forms and tempers

Forms: Sheet and plate

Tempers in record: H34

Selected physical properties

No physical property values published in this partial record.

Selected mechanical properties

H34 | Sheet / plate panel

Tensile strength	Yield / proof strength	Thickness / specimen scope
159 MPa	131 MPa	Source availability: .080, .090, .125 inch; property table does not allocate values by gauge

Condition: Published VitraPlate reference values; source expressly disclaims maximum/minimum specification or final-design interpretation; converted and rounded from source psi values

Basis: typical | Verification: single-source | Source: fairview5005 | Checked: 2026-10-14

Normalization: $\text{psi} \times 0.006894757293168$, rounded to nearest MPa; original source values retained

Original source values: {"ultimate": 23000, "yield": 19000, "unit": "psi"}

Alloy 5005 / Composition and sources

Selected chemistry

Element	Published limit / value	Provenance
Mg	0.5-1.1 wt %	Basis: composition-limit Verification: single-source Source: fairview5005 Checked: 2026-10-14
Si	Maximum 0.3 wt %	Basis: composition-limit Verification: single-source Source: fairview5005 Checked: 2026-10-14

This is selected chemistry, not a complete composition specification. Unlisted elements must not be assumed to be zero.

Applications and selection guidance

Applications: Architectural panels; Decorative anodized components

The reviewed panel source describes H34 material; qualify the finish and supplied gauge for the project. Published typical strengths do not replace an ordered specification or lot certificate.

Source register

fairview5005 | Fairview • VitraPlate 5005-H34

Revision / access scope: 2016 copyright; no explicit revision | Checked: 2026-10-14

https://www.fairview-na.com/wp-content/uploads/2016/10/VitraPlate_Data-Sheet_5005-H34.pdf

Source facts are presented in an original editorial layout. Source publications may change; full source tables and imagery are not reproduced. This partial sheet does not imply interchangeability between alloy designations or certification of any supplied product.