

The matt finish UGITOP®

Description

- > UGITOP is a double sided matt finish (surface roughness Ra typical: 1,5 µm / 60 µinch).
- > This finish is available on 304 austenitic grades (1.4301) and 316L (1.4404).
(Please refer to our dimensional range).
- > We propose a standard width range up to 1250 mm and further widths up to 1500 mm are available on consultation.
- > The surface conforms to the norm EN 10088 2F.



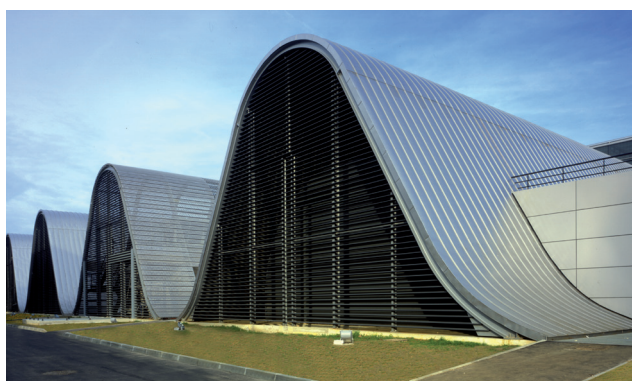
UGITOP surface finish

Key strengths

- > This surface finish is characterised from its installation by a permanent and durable matt finish.
- > Good resistance to significant temperature changes.
- > Good corrosion resistance.
- > High ductility coefficient.
- > Low thermal expansion coefficient.
- > No embrittlement of stainless steel in cold weather (+5°C).
- > It blends into all types of environment, both rural and urban, traditional or modern, and is suited to all styles of architecture.

Applications

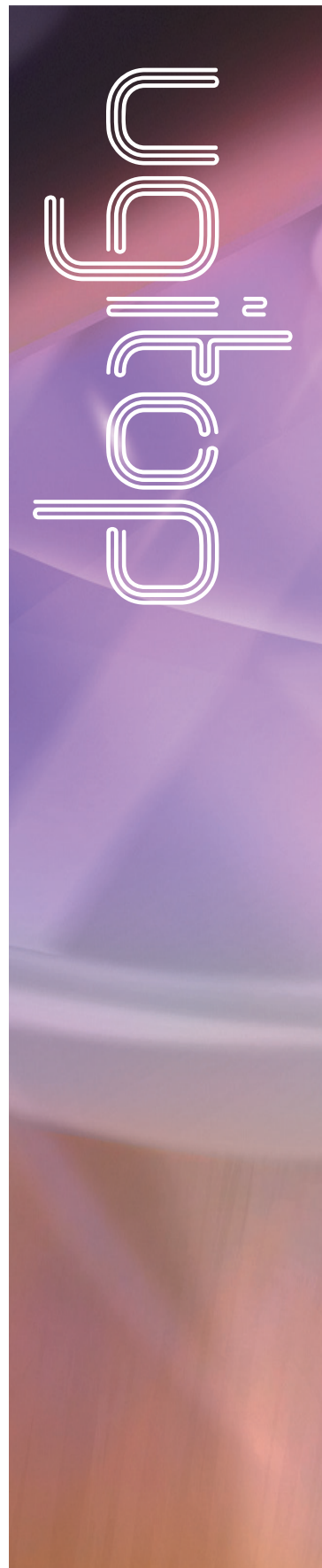
- > **Roofing:** fully supported roofs, self-supporting roofs, batten roll roofs.
- > **Façade:** cassette, panels, cladding.
- > **Cladding:** profiles.
- > **Accessories:** gutters, downpipes.



Research Center, Gif sur Yvette - France
CEA / Vasconi Associés Architectes
© Philippe Ruault



Refuge Topali - Club alpin Suisse Vallée Matter, St Niklaus.
Meier Associés architectes S.A.
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Our manufacturing process

UGITOP is manufactured according to the typical stainless steel manufacturing process up to the rolling operation where the patterning process takes place.

View all of the stainless steel manufacturing process on our website:

<http://www.aperam.com/stainlesseurope-manufacturing-process>.

- > This engraving operation is conducted with specially prepared cylinders on a matt annealed base (2D).
- > This engraving technique used enables both a uniform and reproducible finish for the different grades and dimensions.
- > This production method is certified to the standards ISO 9001 and ISO 14001:

<http://www.aperam.com/stainlesseurope-system-certificates>.



- > The engraving is conducted during the rolling operation



- > The pickling and annealing stage restores the ductility of the metal and optimises the matt finish.

A guide to the choice of grade relative to atmospheric exposure

The choice of stainless steel grade for a roofing application must take into account the environment in which the material will be used.

Commercial designations		External environment					
		Unpolluted rural	Urban and industrial		Marine		
			Normal	Severe (1)	20 to 10 km	10 to 3 km	Coastal (<3km)
Austenitics	304	✓	✓	▲	✓	✗	✗
	316L	✓	✓	▲	✓	▲	▲

✓ : Kind suitable for exhibition ▲ : Type the choice will be determined after we have consulted ✗ : Type not suitable for exposure

(1) In particular, any environment or atmosphere containing corrosive substances or halogens: chlorides, fluorides, etc.

Our dimensional range

Grades	Norms				Our dimensional range Thicknesses in mm (with standard tolerances)										
	ASTM	UNS	EN		0.4	0.5	0.6	0.7	0.8	1	1.2	1.5	2	2.5	3
304*	304	S30400	1.4301	Largeurs max en mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
316L*	316L	S31603	1.4404		1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250

* 1,500 mm wide in thickness ≥0,4mm , consult us.

The UGITOP finish is available in coils, slit coils and sheets.

Their mechanical properties comply with norms EN 10088-2 and ASTM A240.

If you wish to find out more about our grades, please consult our technical data sheets on-line:

<http://www.aperam.com/technical-data-sheets>