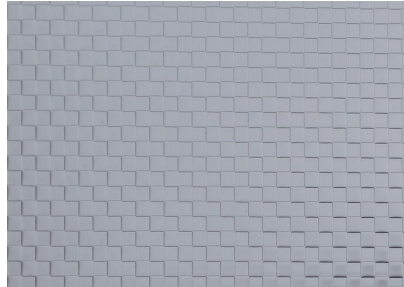


The chequer pattern finish UGINOX[®] TT4

Description

- > UGINOX TT4 is a one sided chequer patterned finish (typical pattern depth: 50 µm / 0.0020 inch).
- > This finish is available on select ferritic grades from our KARA range <http://www.aperam.com/kara> and on select austenitic grades. (Please refer to our dimensional range).
- > We propose a width range up to 1500 mm depending on thickness.
- > The surface conforms to the norm EN 10088 2M.



UGINOX TT4 surface finish

Key strengths

- > Wear resistant finish.
- > Good resistance to mechanical attack.
- > High mechanical performance.
- > Good corrosion resistance.
- > Easy to deep draw.

Applications

- > **Building:** façade, floor, street furniture, decorative elements, etc.
- > **Catering:** work tops, cladding, etc.
- > **Lifts:** cabins, doors, various decorative components, etc.
- > **Sinks:** bowls, draining boards, etc.

Recommendations

Coatings

- > We recommend the use of a coating to protect the surface during transport, storage and subsequent transforming operations.
- > The choice of coating is based on the requirements (ease of forming, laser cutting, ...). Please do not hesitate to consult us for specific requests.
- > If coating is not required, we suggest paper interleaving in between the coil laps or sheets.



Our manufacturing Process

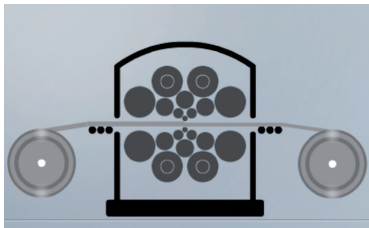
UGINOX TT4 is patterned with specially prepared cylinders during the rolling operation followed by a further annealing stage in a bright annealing furnace. This operation produces a ductile product, optimised for deep-drawing, free of internal stresses in order to avoid forming issues such as shape, waves, twist, spring-back... during additional finishing processes such as cutting to length, forming...

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

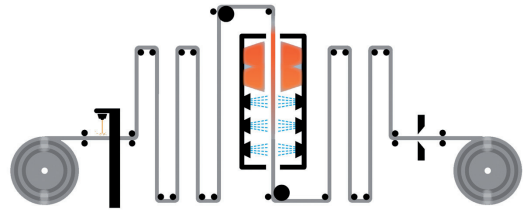
<http://www.aperam.com/stainlesseurope-system-certificates>

- > The rolling 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 patterning operation at **cold-rolling** retains the properties of the passive layer.



- > The **bright annealing** stage retains its brightness, and ensures an optimum passive layer for corrosion resistance.

Our dimensional range

Grades	Norms			Maximum widths in mm	Thicknesses in mm (with standard tolerances)						
	ASTM	UNS	EN		0.6	0.7	0.8	1	1.2	1.5	2
K30⁽²⁾	430	S43000	1.4016	Maximum widths in mm	1250	1250	1500	1500	1500	1500	1500
K41	441	S43932	1.4509		1250	1250	1500	1500	1500	1500	1500
304⁽¹⁾	304	S30400	1.4301		1250	1250	1500	1500	1500	1500	1500
316L*	316L	S31603	1.4404		1250	1250	1250	1250	1250	1250	1250

* 1,500 mm wide in thickness $\geq 0,8$ mm , consult us.

(1) 304D/304ED/189L: consult us

(2) K30ED: consult us

Standard

Consult us

The UGINOX TT4 finish is available in coils, slit coils and sheets.

These grades comply with American NSF/ANSI 51-2007 and European N°1 935/2004 standards regarding material used in contact with food.

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>