

UGIBRIGHT

4016-F17-430*

4301-18.9E-304*

4404-18.11ML-316L*

Stainless Steel Urban Architecture, Cladding & Decorative Applications

Visually, we are drawn by the reflectivity of an object or a building. A special finish, UGIBRIGHT is specially developed to present a shiny and uniform finish. Ugibright can be used in roofing and cladding applications. Used as cladding, Ugibright allows the construction to live with the passing hours and reflects the environment.

Aesthetics

- Uniform and shiny finish,
- Reflects the environment.

Mechanical characteristics

- Low thermal expansion coefficient,
- High corrosion resistance,
- Reflective finish:

Dimensions

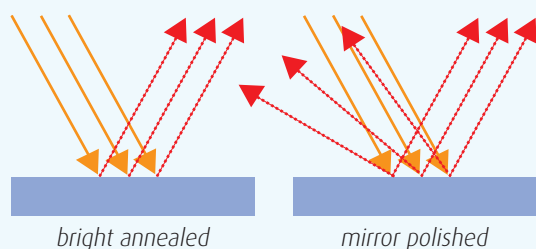
- Thickness: 0.4 mm to 2 mm,
- Width: 1250 mm,
- Supplied in coils, sheets.

Specific Advantages

- Ugibright 4016 is suitable for interior decoration only,
- Ugibright 4301 and 4404 can be used for cladding and external applications.

As a stainless steel material, UGIBRIGHT is 100% recyclable.

For uniformity it is recommended to respect the rolling direction when fixing.



MECHANICAL CHARACTERISTIC COMPARISON

average values

	UGIBRIGHT 4301-304	UGIBRIGHT 4404-316L
Expansion coefficient mm/m $\Delta T = 100^{\circ}\text{C}$	1,75	1,65
Thermal conductivity $\text{W/m}^{\circ}\text{C}$ à 20°C	15	15
Proof Stress 0,2T	320	340
Tensile Strength	670	620
Melting Point $^{\circ}\text{C}$	1140-1380	1140-1380
Density	7,9	7,9
Typical thicknesses	0,5-0,6-0,8-1,0-1,5-2,0	0,5-0,6-0,8-1,0-1,5-2,0

GUIDE TO THE SELECTION OF THE DIFFERENT STAINLESS STEEL GRADES

Dependent on the environment and the type of building/construction

Grades	INTERNAL		EXTERNAL							
	A	B	Rural no pollution	Urban/Industrial		Marine				Specific
				Normal	Severe	20 to 10 km	10 to 3 km	Sea front	Mixed	
UGIBRIGHT 4016	●	▲	●	▲	■	▲	▲	■	■	■
UGIBRIGHT 4301	●	●	●	●	▲	●	▲	■	■	▲
UGIBRIGHT 4404	●	●	●	●	▲	●	●	●	▲	▲

● ok
 ■ no
 ▲ consult us

Definitions according to the norms

INTERNAL

A : zones with light to moderate humidity.

B : areas with heavy to severe humidity:

Large concentration of either human or animal, little ventilation, toxic vapours (close to paper or waste treatment etc) or with a corrosive atmosphere (chemical or corrosive projections) even if infrequent.

EXTERNAL

Rural no pollution: Residential areas without any particular areas of contamination.

Light Urban/Industrial: Residential or industrial areas subjected to gas or vapours which are likely to increase the corrosive potential of the air but which are not toxic.

Severe urban & industrial: Close to industrial activity emitting heavily polluted smoke or vapours, refineries, incinerators, distilleries, chemical plants, paper mills. This type of pollution increases the level of contamination in the air on a regular or continuous basis.

Marine

- Between 10 and 20km from the shore subjected to marine projections at the distance cited,
- Marine: Between 3 and 10km from the shore,
- Sea front: Less than 3km from the shore but not subjected to marine attack,
- Mixed: Marine environment with corrosive agents .

Specific: Identical environment to those listed above however the conditions are more aggressive due to sand deposits, high temperatures, high levels of humidity.

Guide to the usage of stainless steel

- **USE** specific stainless steel tools to avoid any risk of cross contamination.
- **DO NOT WORK** with other metals adjacent to the stainless steel, which may risk contamination as a result of projections.
- **AVOID** the use of chlorine or fluorine based products.
- **AVOID** the use of metallic pads or wire wool including powder based abrasives.
- After soldering **USE AN ORTHOPHOSPHORIC BASED ACID** for pickling. Use of chlorine based pickling agents is prohibited.

For further information please contact the Specialty Division on:
00 33 3 85 85 75 39 ou 73 69



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