

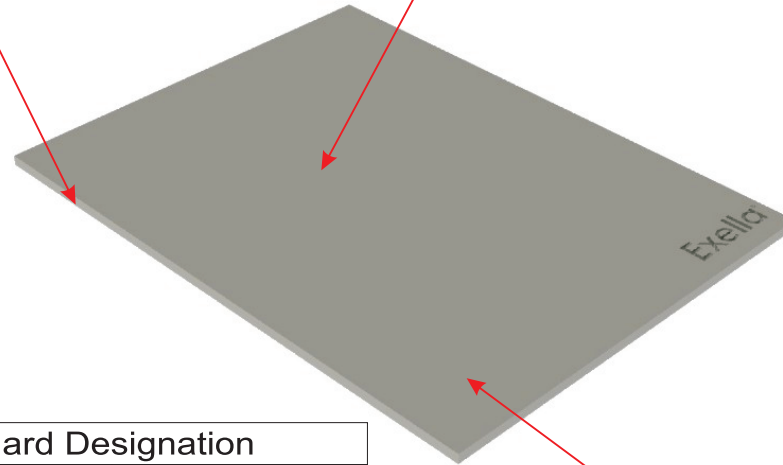
# Photoetching - Material Properties

## Thicknesses Tolerances

	0.03 -> 1.20 mm
STANDARD	+/- 8 %
SPECIAL	+/- 4 %

## Hardness

Temper	Hardness	COD
Annealed	Commercially Soft	
Quarter Hard	One Number Hard	1/4 H
Half Hard	Two Numbers Hard	1/2 H
Hard Temper	Four Numbers Hard	4/4 H
Extra Hard	Six Numbers Hard	



## Materials

	Common designation	Standard Designation		
		UNI EN	DIN	UNS/AISI
Cu Alloy	Brass	CuZn37	2.0321	C 27200
	Nickel Silver	CuNi18Zn20	2.0740	C 76400
	Bronze	CuSn10	2.1050	C 90700
	Phosphorous Bronze	CuSn8P	2.1830	C 52100
Steel	Austentic stainless steel	X10CrNi18-8	1.4310	AISI 301 - S30100
	Austentic stainless steel	X10CrNi18-10	1.4301	AISI 304 - S30400
	Austentic stainless steel	X2CrNiMo17-12-2	1.4404	AISI 316L - S31603
	Ferritic stainless steel	X8Cr17	1.4016	AISI 430 - S43000

## Finished Surface

	COD	Description
MIRROR	BA	Bright Annealed Finish- A smooth, bright, reflective finish
BRIGHT	2B	Bright surfaced - A smooth, moderately reflective finish
DULL	2D	Dull surfaced material - A smooth, non-reflective finish

Exella has a wide range of metallic sheets in every thickness from 0,03 mm to 1,20 mm. The etched sheets can arrive to dimensions of 400 x 1200 mm, however it is advisable to use more restrained formats, around 200x300 mm. Special dimensions can also be agreed, or the use of materials and treatments not listed.