

Technical Data Sheet **TECU®** Patina

Mechanical Properties of Cu-DHP									
Material		Material condition	Tensile Strength R_m N/mm ²		0,2%- Proof Stress $R_{p 0,2}$ N/mm ²		Elongation A_{50mm} %	Hardness HV	
Symbol	Number		Min.	Max.	Min..	Max.	Min.	Min.	Max.
Cu-DHP	CW024A	R240	240	300	180	-	8	-	-
CuZn0,5	CW119C	H065	-	-	-	-	-	65	95

Physical Properties of Cu-DHP	
Density:	8,93 g
Melting point:	1083 °C :
Thermal conductivity at 20 °C :	293 – 364 W/m K
Electrical Conductivity at 20 °C :	42 – 52 m/ W × mm ²
Coefficient of expansion:	Δt per 100 K = 1,7 mm/m
Modulus of elasticity at 20 °C :	132 kN/mm ²

Product specifications for thickness 0,60 – 1,50 mm		
Properties of	Roofing Quality TECU® Patina ≤ 800 mm	> 800 mm bis 1000 mm
Thickness	± 0,02 mm	
Edgewise Curvature - length of strip 1m - length of strip 5m	< 0,2 mm/m <1,0 mm	< 0,3 mm/m < 2,0 mm
Flatness, (wave height) measured over 1m	< 0,2 % of Wave Length	
Technical data	DIN EN 1172 R240 Ultimate Tensile Strength (R_m): 255–285 N/mm ² Proof Stress ($R_{p0,2}$): 180–235 N/mm ² Elongation (A_{50}): min. 8%	
Availability	Sheets	
Possible Application	<ul style="list-style-type: none"> - Copper Roofing and Wall Cladding - Copings - Dormer Cladding - Verges - Chimney Penetrations - Valley Gutters 	
Hallmarking	EN 1172	

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