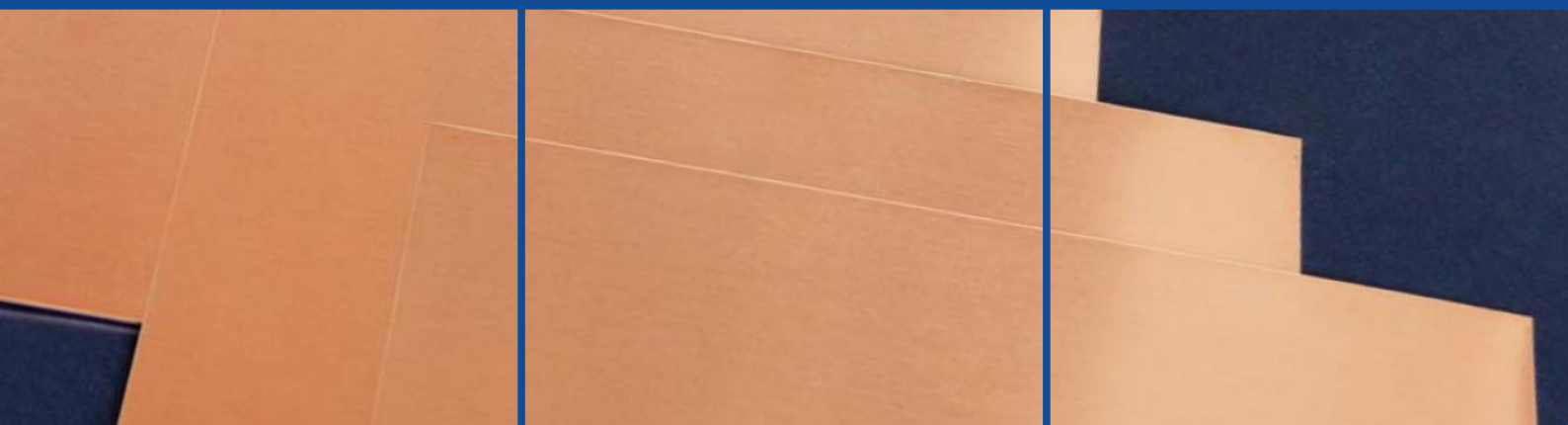


SOFIA MED



MATERIALS FOR ROOFING APPLICATIONS

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SOFIA MED

Sofia Med is a producer of a wide range of rolled and extruded copper and copper alloy products such as sheets, strips, plates, circles, disks, bare and plated copper bus bars, rods, profiles, components, fabricated parts and wire that are used in a wide variety of building and industrial applications.

Sofia Med is part of the ElvalHalcor Hellenic Copper and Aluminium industry S.A., a leading global manufacturer of aluminium and copper rolled and extrusion products.

Sofia Med is situated in Sofia, Bulgaria, on a 250 000 m² area and has three production units: Foundry, Rolling and Extrusion.

With more than 80 years of manufacturing experience and significant investments, **Sofia Med** has evolved into a competitive modern European company with customers globally.

Sofia Med operates under strict quality, environmental, as well as health and safety management systems, in compliance with ISO 9001:2015, IATF 16949:2016, ISO 14001:2015, OHSAS 18001:2017, ISO 50001:2011, as well as follows the guidelines of ISO 26000:2010 for social responsibility.

The wide product range of **Sofia Med** meets the requirements of the Unified European standards (EN), as well as BS, DIN, ASTM, JIS standards, or any other specific customer request.

COPPER - GENERAL APPLICATIONS

Copper roofs, with their imposing appearance, make buildings distinguishable.

Copper strips and sheets are considered to be the most suitable material for architectural applications, such as domes, roof covers, exterior surfaces, gutters and gutter supports, chimneys, etc.



COPPER ROOFS

Due to its excellent physical properties and significant advantages it provides, copper is considered one of the perfect materials, used in architectural applications. Its major application in the architecture of buildings is for roofing. Copper roofs have been preferred for centuries on and all around the world, providing aesthetics to numerous constructions such as monuments, museums, churches, buildings, and houses.

- COPPER ROOFS MAKE BUILDINGS DIFFER IN AN EXTRAORDINARY WAY.
- 100% RECYCLABLE MATERIAL.
- NATURE FRIENDLY.
- UNLIMITED LIFETIME.
- NO FURTHER MAINTENANCE NEEDED.
- HIGH DURABILITY AT VARIOUS ATMOSPHERIC CONDITIONS.

COPPER STRIPS

CHARACTERISTICS

SPECIFICATIONS

General applications	EN 1652
Architectural applications	EN 1172

Products can also be supplied in conformance to respective international standards, such as ASTM series as well as JIS series.

MANUFACTURING RANGE - PACKING				
Thickness	Width	Temper	Coil Internal Diameter	Coil Size
0,30 - 0,40	8 - 1250	R220, R240, R290, R360	150, 200, 300, 400, 500	6 kg/mm
0,41 - 1,50	15 - 1250	R220, R240, R290, R360	150, 200, 300, 400, 500	12 kg/mm
1, 51 - 2,50	25 - 1250	R220, R240, R290	400, 500	12 kg/mm

Thickness (mm) Mass per m ² (Kgr.)	0,40 3,6	0,50 4,5	0,55 4,9	0,60 5,4	0,65 5,8
	0,65 5,8	0,70 6,3	0,80 7,2	1,00 9,0	1,20 10,7

COPPER SHEETS

CHARACTERISTICS

SPECIFICATIONS

General applications	EN 1652
Architectural applications	EN 1172

Products can also be supplied in conformance to respective international standards, such as ASTM series as well as JIS series. Also, copper rolled products can be supplied with tolerance tighter than the specified in above standards upon request.

ALLOYS ACCORDING TO EN 1652 STANDARD

Symbol	Number	Cu{% -min}	P{% -Range}	O {% -max}
Cu-DHP	CW024A	99.90	0,015-0,040	-
Other alloys can be produced upon request.				

PHYSICAL PROPERTIES (at Ambient Temperature of 20°C)

	CU-DHP
Density (gr/cm³)	8,93
Thermal Conductivity (W/m °K)	330
Speci Heat (J/kg °K)	385
Coefficient of linear thermal expansion at 20°C (10 ⁻⁶ /°K)	17
Melting Point (L/S* in °C)	1083

*L/S = Liquid/Solid

TYPICAL MECHANICAL PROPERTIES (Alloy: Cu-DHP)

Alloy	Temper	Tensile Strength	Yield Strength	Elong (%)	Hardness (HV)
Cu-DHP	R220	220 - 260	100 max	> 33	-
	H040	-	-	-	40 - 65
	R240	240 - 300	180 min	> 8	-
	H060	-	-	-	65 - 95
	R290	290 -360	250 min	> 4	-
	H090	-	-	-	90 - 110
	R360	360 min	320 min	> 2	-
	H110	-	-	-	110 min

Copper rolled products in different temper or range in mechanical properties can be supplied upon special agreement.

MANUFACTURING RANGE - PACKING

Thickness (mm)	Width (mm)			Packing
	Soft (R220)	Half Hard (R240)	Hard (R290)	
0,30 - 0,40*	100 - 1000	100 - 1000	100 - 1000	Wooden crates of 500 to 2000 kg with or without paper interleaving
0,41 - 2,50	100 - 1250	100 - 1250	100 - 1250	

*Upon special agreement. Copper sheets can be supplied in lengths from 400 to 3500 mm

OUR SALES CONTACTS:

BULGARIA: SOFIA MED SA

4 Dimitar Peshev str., Gara Iskar
1528 Sofia

Iliana Nikolova

Tel.: +359 2 9606 209

Mob.: +359 894 752287

inikolova@sofiamed.bg

UK/IRELAND: METAL AGENCIES Ltd.

Suite 4, Cobb House
2-4 Oyster lane, Byfleet
Surrey KT14 7DU

Mark O'Rorke

Tel.: +44 1932 33 1111

Mob.: +44 7775 927968

mororke@metalagencies.vionet.gr

Damian Monk

Tel.: +44 (7767) 475 815

Mob.: +44 7775 927968

dmonk@metalagencies.vionet.gr

FRANCE: REYNOLDS CUIVRE S.A.s

1 rue Francois Jacob
92500 Rueil-Malmaison

Thomas Potier

Tel.: +33 155 472468

Mob.: +33 30 423495

thomas.potier@reynolds-cuivre.fr

Vincent Lebreton

Tel.: +33 155 472461

Mob.: +33 633 790846

vincent.lebreton@reynolds-cuivre.fr

ITALY: ALURAME

Via A.Stradivari, Milano

Marco Avanzi

Tel.: +39 02 971 78140

Mob.: +393 440 881 119

mavanzi@alurame.vionet.gr

GERMANY, BELGIUM, NETHERLANDS:

TEPRO METAL AG

Ursulastraße 33-41, 50354 Hürth

Ilona Krause

Tel.: +49 7457 948 343

Mob.: +49 172 2507123

ikrause@teprometal.vionet.gr

Frank Mostert

Mob.: +49 162-6243591

fmmostert@teprometal.vionet.gr

MKC Metall KundenCenter GmbH

Ursulastraße 33-41, 50354 Hürth

www.metallkc.de

Rolled/Roofing products:

i.V. Jörg Reichelt-Quadt

Tel.: +49 / (0) 2233 / 3962 - 330

joerg.reichelt-quadt@metallkc.de

Extruded products:

i.V. Volker Nickel

Tel.: +49 2233 3962 - 310

Fax.: +49 2233 3962 - 319

volker.nickel@metallkc.de

SOUTH KOREA:

STAR MECHATRONIX CORP.

RM 822, U-Tong Ctr, 109

YeongDeungPo-Ro, Y.D.Po-Ku

07264 Seoul

Woowon Kim

Tel.: +82 2 2671 4311

Mob.: +82 10 4275 9191

starmec@naver.com

HONG KONG/CHINA/TAIWAN:

TEPRO METAL AG

(Asia representative office)

HSE 1 Jade View Villa, No.20 Tsing Tai Road

Tuen Muen, New Territories

HONG KONG

Ederson Chen

Tel.: +852 26188572

Mob.: +852 63487695, +8618666418197

echen@sofiamed.bg

SINGAPORE/THAILAND/MALAYSIA

Eztechnik Pte. Ltd.

3791 jalan Bukit Merah #07-04

E-Centre @ Redhill

Singapore 159471

Remy Choo

Tel.: +6562721221

Mob.: +65 93836825

remy.choo@eztechnik.com

RUSSIA:

TEPRO METALL AKTIENGESELLSCHAFT

REPRESENTATION OFFICE MOSCOW

Leninskij Prospekt 158, office 306,

119571 Moscow

Viktor Wanzowitsch

Tel.: +7 916 208 32 19

vwanzowitsch@inbox.ru

ROMANIA: STEELMET ROMANIA S.A.

42 Drumul intre Tarlale street

3rd district, 032982 Bucharest

Tel.: + 40 21 2090570

Fax: + 40 21 256 1464

office@steelmet.ro

www.steelmet.ro

TURKEY: BASE METAL

Barbaros Mah. Sarkac Sok. No:1 D:46

My Prestige Atasehir Istanbul

Can Savaş

Tel.: +90 216 688 76 40-44

Fax: +90 216 688 76 18

info@base-metal.com.tr

csavas@base-metal.vionet.gr

www.base-metal.com.tr

USA: CPW AMERICA CO

10497 Town & Country Way, Suit,

77024 Houston

Dimitar Dimitrov

Tel.: +35929606235

Mob.: +359894752235

dmdimitrov@sofiamed.bg

SOFIA MED

4 Dimitar Peshev str.

Gara Iskar, 1528 Sofia

BULGARIA

Tel.: +359 2 960 6209

Fax: +359 2 960 6393

e-mail: info@sofiamed.bg

www.sofiamed.bg