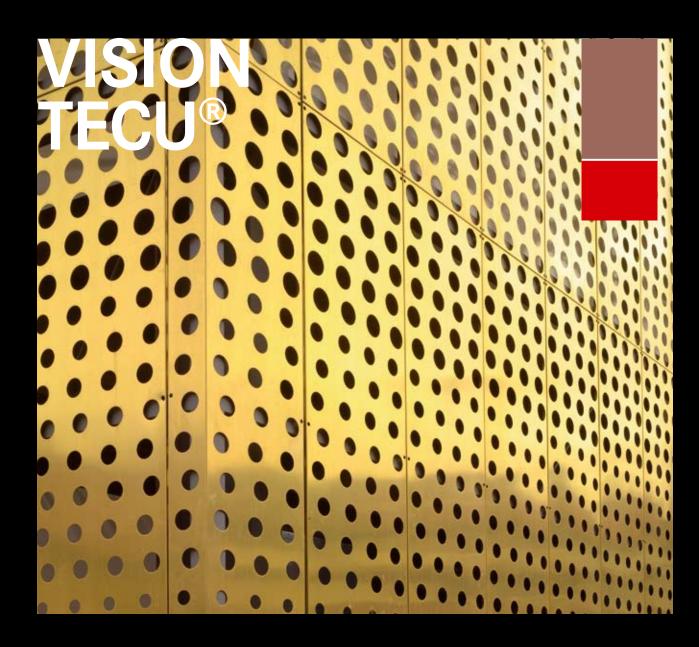
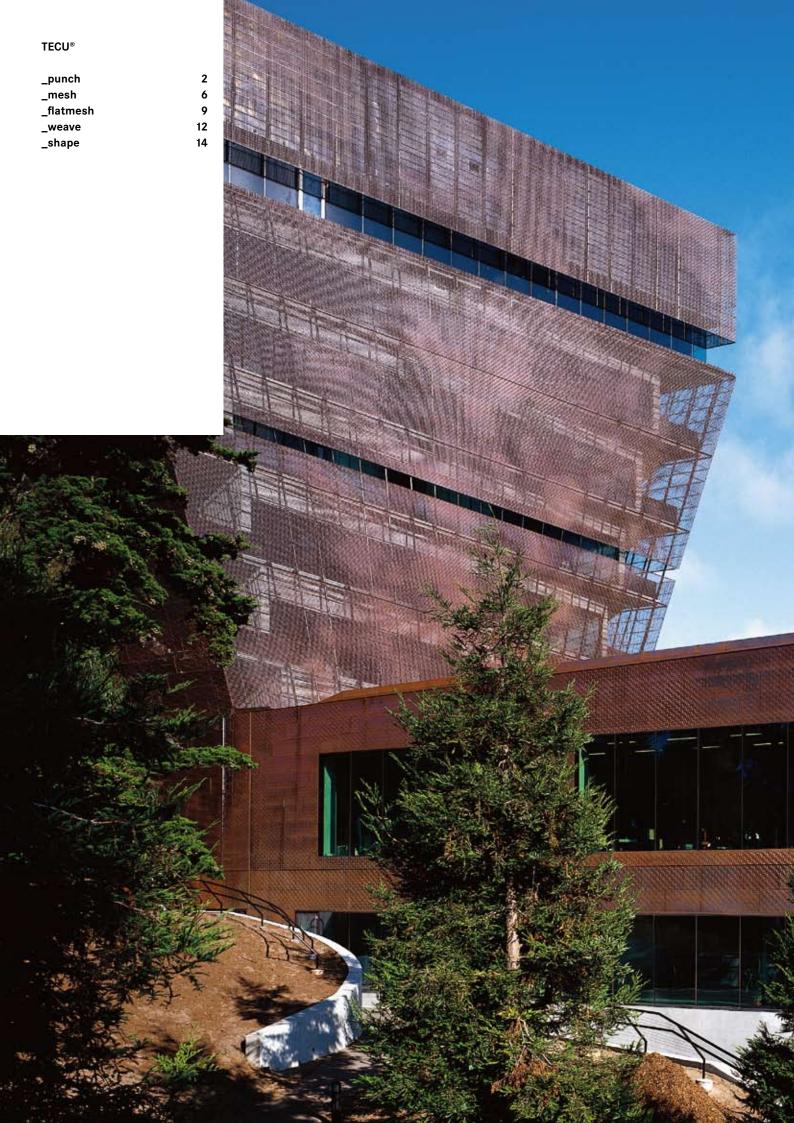
## **TECU**®



- \_punch
- \_mesh
- \_flatmesh
- \_weave
- \_shape



KME Germany AG & Co. KG VISION TECU® [GB]



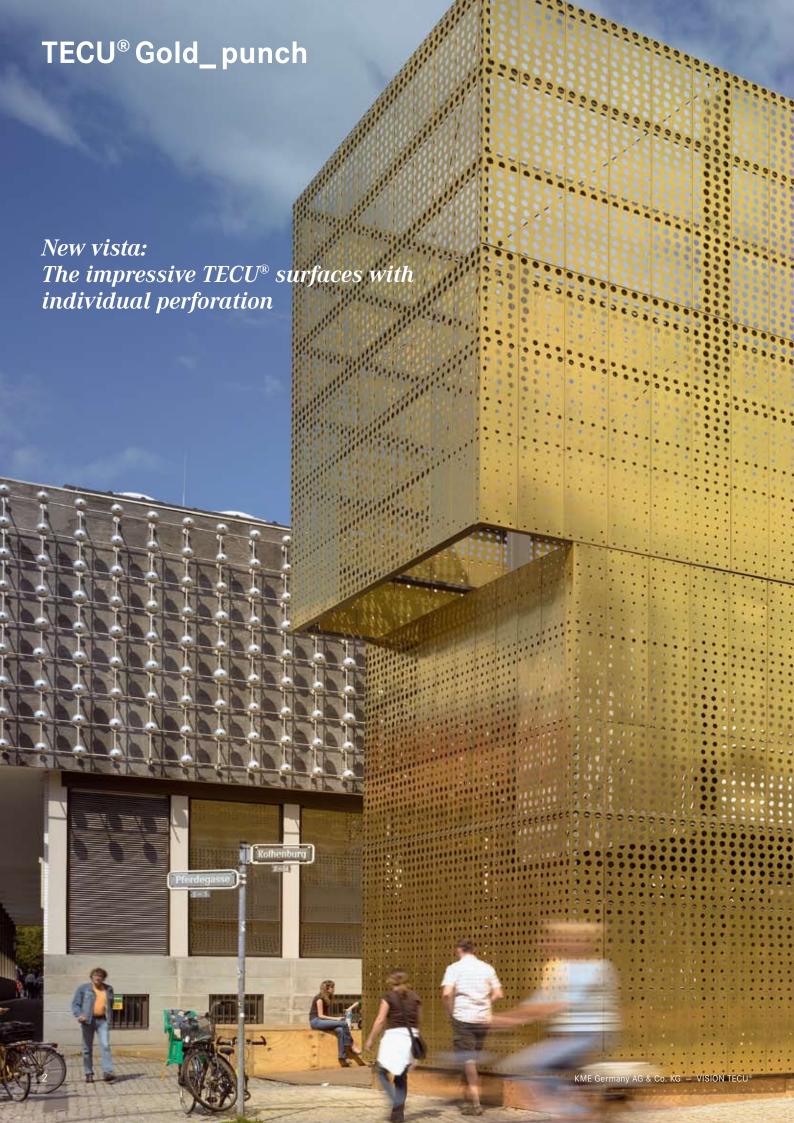


Copper in architectural applications – now livelier, more characteristic, and more individual.

New innovative processing methods for TECU® products open up even more perspectives for creativity and new ideas.

The applications shown here are just some examples of the many new possibilities of product design based on the individual ideas of designers and architects.





# punch



Perforations offer many new possibilities for individual design with TECU® surfaces. Many different levels of transparency can be created - from almost complete transparency to a subdued translucence. The effect of back-lit facades can be designed very individually by using different TECU® surfaces and a large number of different perforation patterns. There are also virtually no limits to the use of perforated TECU® products as decorative elements indoors.



## punch

The perforations of the TECU® surfaces are made by punching the copper and copper alloy strips after production. The punched parts are fed immediately to the recycling process where they are further processed. Punching processes have no effect on the positive properties of the TECU® products you are familiar with, such as durability, economy and the fact that they are so easy to work with.

Perforations in copper encourage the creativity of architects and designers for new visions in surface design and innovative applications for the versatile TECU® products. The examples shown here are just a selection from the sheer endless individual possibilities.

### TECU® Classic\_punch

Square perforation Diagonal rows offset

### TECU® Classic\_punch

Round perforation Diagonal rows

### TECU® Classic\_punch

Square perforation Straight rows

### TECU® Classic\_punch

Round perforation Scattered

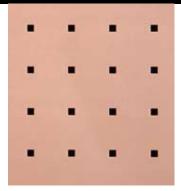
### TECU® Patina\_punch

Rectangular perforation Straight rows

### TECU® Brass\_punch

Fishbone perforation











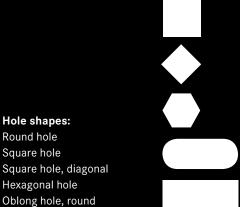


### \_punch (all perforation types)

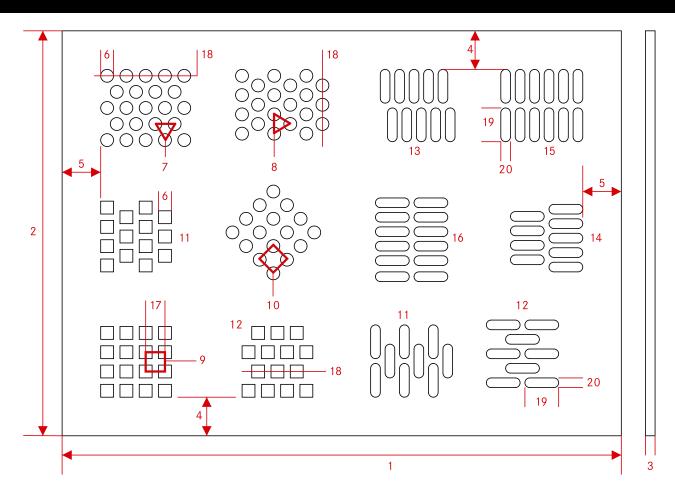
Dimensions	670 x 2000	1000 x 2000
Thickness	1.0/1.2/1.5/2.0	1.0/1.2/1.5/2.0
TECU® Classic	+	+
TECU® Oxid	+	+
TECU® Patina	+	+
TECU® Zinn	+	+
TECU® Brass	+	+
TECU® Bronze	+	+
TECU® Gold	+	+



- 1 Length of metal
- 2 Width of metal
- 3 Thickness of metal
- 4 Edges (long side)
- 5 Edges (short side)
- 6 Hole width
- 7 Triangular arrangement, vertical
- 8 Triangular arrangement, horizontal
- 9 Rectangular arrangement
- 10 Diagonal arrangement
- 11 Parallel to width
- 12 Parallel to length
- 13 End offset parallel to width
- 14 End offset parallel to length
- 15 Straight line parallel to width
- 16 Straight line parallel to length
- 17 Distribution
- 18 Row of holes
- 19 Oblong hole length
- 20 Oblong hole width



Oblong hole, rectangular

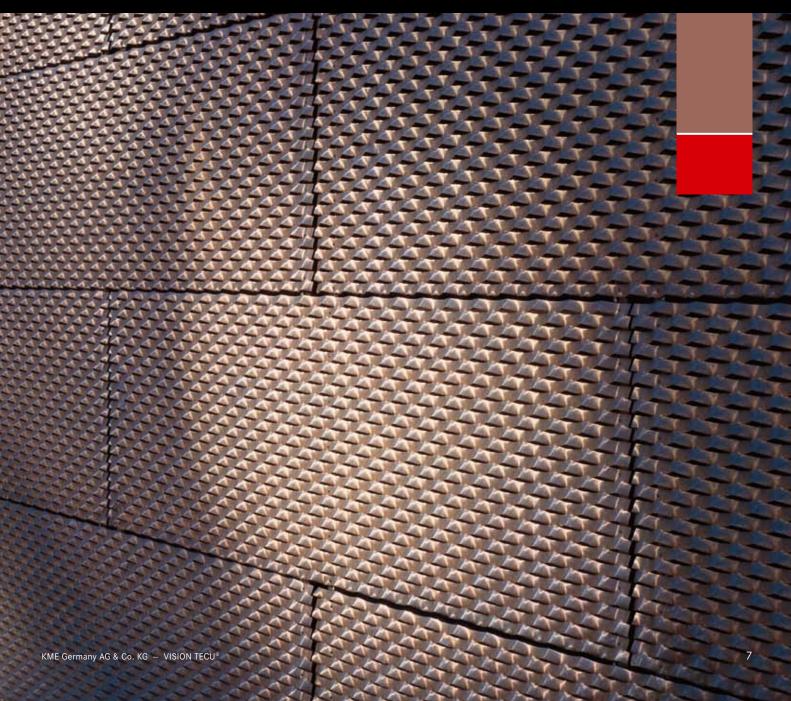




## mesh



The material is first perforated and then stretched to create a copper rib mesh – a metal curtain with functional aesthetic qualities. The many different textile-like structures of the TECU®\_mesh surfaces provide openness and create a solid barrier, offering both transparency and mechanical protection. ECU®\_mesh surfaces in rib mesh design – for individual and characteristic impressions of light and space.

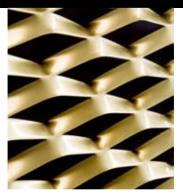


## mesh

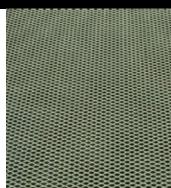
After the copper and copper alloys strips have been produced the TECU®\_mesh structures are created by perforating and then stretching the material. The rib mesh created in this way is also expanded in the direction of the material thickness due to the effect of the tensile force.

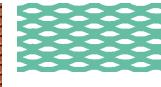
TECU®\_mesh is available in various TECU® surfaces and some individually modifiable parameters.

## TECU® Gold\_mesh TECU® Classic\_mesh



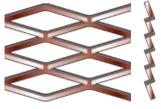






### Mesh shapes

The mesh is an element of the expanded metal sheet. The shapes are determined by the strands and the openings enclosed by these strands. The size of the mesh depends on the mesh length and the mesh width.



not flattened

### Mesh length (ML)

Distance from centre nodal point to centre nodal point toward the long diagonal.

### Mesh width (MB)

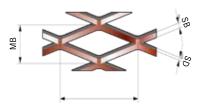
Distance from upper edge nodal point to upper edge nodal point toward the short diagonal.

### Strand width (SB)

Width of the material remaining between the openings.

### Strand thickness (SD)

Thickness of the used material.



### Mesh opening

Four strands form the sides of the expanded metal openings.



(rib mesh)	
	Dimensions
	Thickness
	TECU® Classic
	TECU® Oxid

mesh

THICKHESS	1.0	1.2
TECU® Classic	+	+
TECU® Oxid	+	+
TECU® Patina	+	+
TECU® Zinn	+	+
TECU® Brass	+	+
TECU® Bronze	+	+
TECU® Gold	+	+

on request

on request

## flatmesh



Like the TECU®\_mesh structures the TECU®\_flatmesh designs are also made by perforating the copper and copper alloy strips and then stretching the material. The stretched metal is then rolled to produce the almost flat TECU®\_flatmesh surface.

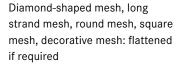
The rib mesh variants are available in the surfaces TECU® Classic\_flatmesh and TECU® Patina\_flatmesh.

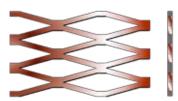
### TECU® Classic\_flatmesh











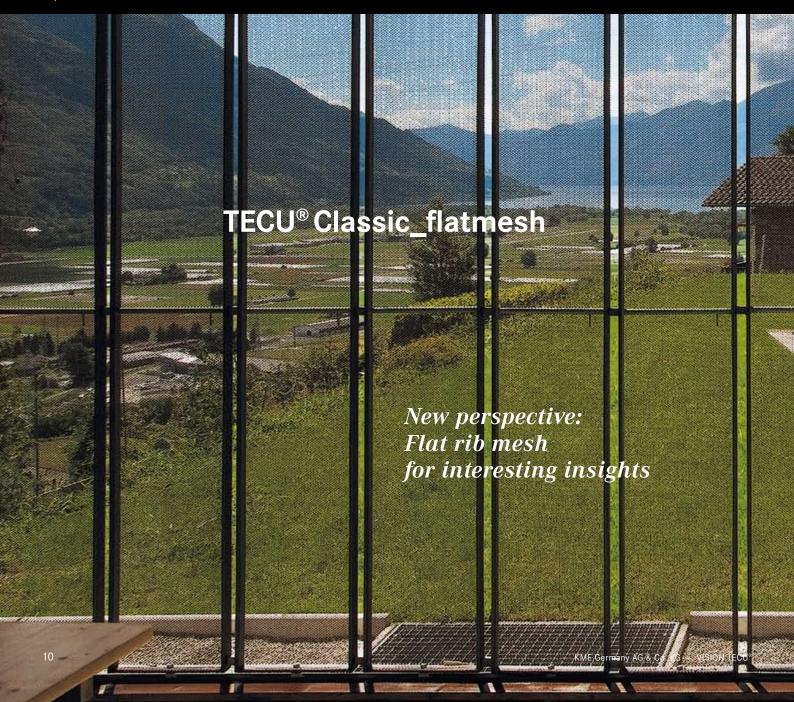
flattened

		XX	$\times\!\!\times\!\!\!\times$	$\boldsymbol{\times}$
OQ		XX	$\times \times$	$\sim$
00	KO C	XX	$\times\!$	$\propto$
00	$\infty$	$\infty$	$\times\!$	$\infty$
			~~	$\sim$

_flatmesh (expanded metal)			
	Dimensions	1000 x 2000	1000 x 3000
	Thickness	0.7	1.0
	TECU® Classic	+	+
	TECU® Patina	+	+

## flatmesh

The even structures of the flat rolled rib mesh of TECU®\_flatmesh offer openness and solidity, the mechanical protection of an open metal skin and the porosity of a semi-transparent curtain. On the building the use of TECU®\_flatmesh brings a pleasant lightness to the façade with the mesh structure seeming to float in front of the background. When installed in front of glass areas TECU®\_flatmesh products offer security in an aesthetic form as well as fascinating impressions from inside and outside.





## weave

Textile woven structures in metal: the woven copper of TECU®\_weave products combine functionality with aesthetic finesse in a very unusual way. With this additional structure in the surface exteriors walls in particular are given a completely new, unique character. Depending on the weave pattern the woven copper takes on completely new mesh patterns with an individual design and light effects. Depending on the metal bond, the incidence of light and the perspective the material has a transparent, semi-transparent or fully enclosed effect.

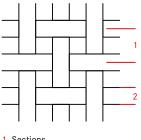
The solid TECU®\_weave copper material can add value to buildings in more ways than one: facades, multi-storey car park cladding, sound and sunlight protection installations profit from the impressive surfaces in the same way as various interior applications.

TECU® Gold/Stainless\_weave TECU® Gold\_weave









- 1 Sections
- 2 Web width

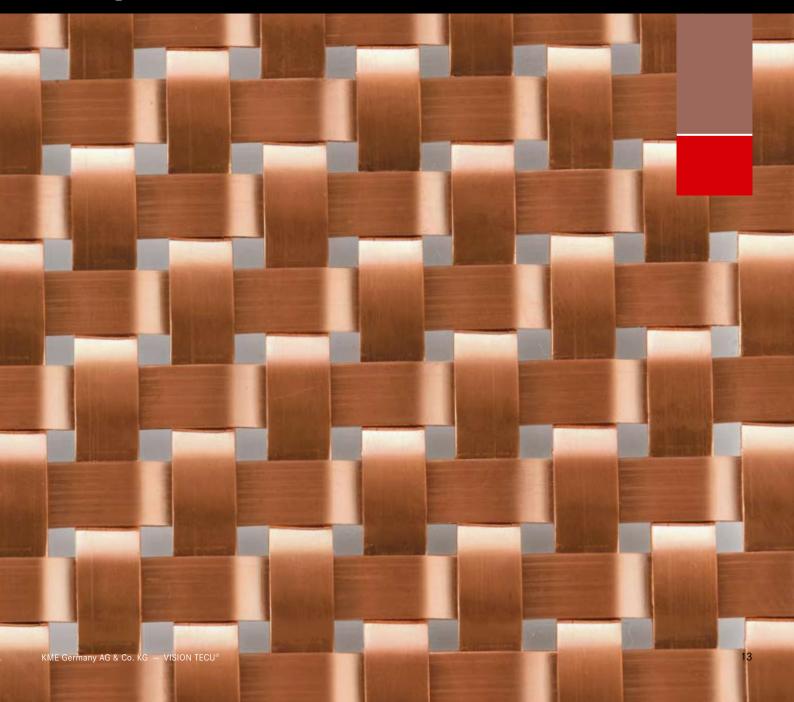


<b>_weave</b> (all strip siz	es)		
	Dimensions	670 x 2000	1000 x 2000
	Thickness	1.0	1.0
	TECU® Classic	+	+
	TECU® Oxid	+	+
	TECU® Patina	+	+
	TECU® Zinn	+	+
	TECU® Brass	+	+
	TECU® Bronze	+	+
	TECU® Gold	+	+



New effect: Woven copper surfaces – metallic materials for architectural applications

TECU® Classic\_weave

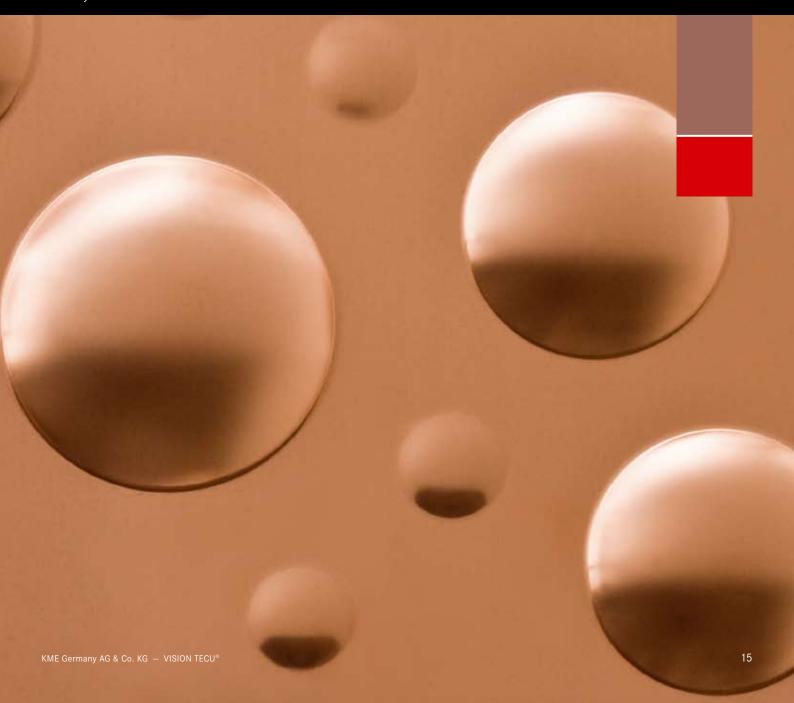


# TECU® Classic\_shape New dimension: Time and time again new, unexpected, fascinating solutions in copper KME Germany AG & Co. KG - VISION TECU®

# shape



Amorphous structures, wave shapes, organic three-dimensional patterns, spherical impressions in copper: TECU® surfaces are now complemented by a third dimension. For building applications this means livelier, more individual facades with a very expressive presence. The natural copper surfaces now seem to take on a different appearance at different times of the day and with every change in light and shadow. The long-term change in appearance also seems to occur in a different manner from what we are used to: since the natural oxidation process on copper depends on the angle of the surface, the colour changes on three-dimensional surfaces differ considerably.



# shape

After the copper and copper alloy strips are produced the three-dimensional shapes of the TECU® surfaces are made by hammering, stamping and hydroforming. These processes have no effect on the familiar positive TECU® properties. The easy processing, durability and economy of the products remain fully intact.

The three-dimensional TECU®\_shape structures are available in many designs and in all TECU® surfaces.

**TECU® Brass\_shape** Wave, diagonal

**TECU® Classic\_shape**Bubbles, scattered

TECU® Classic\_shape Small bubbles scattered

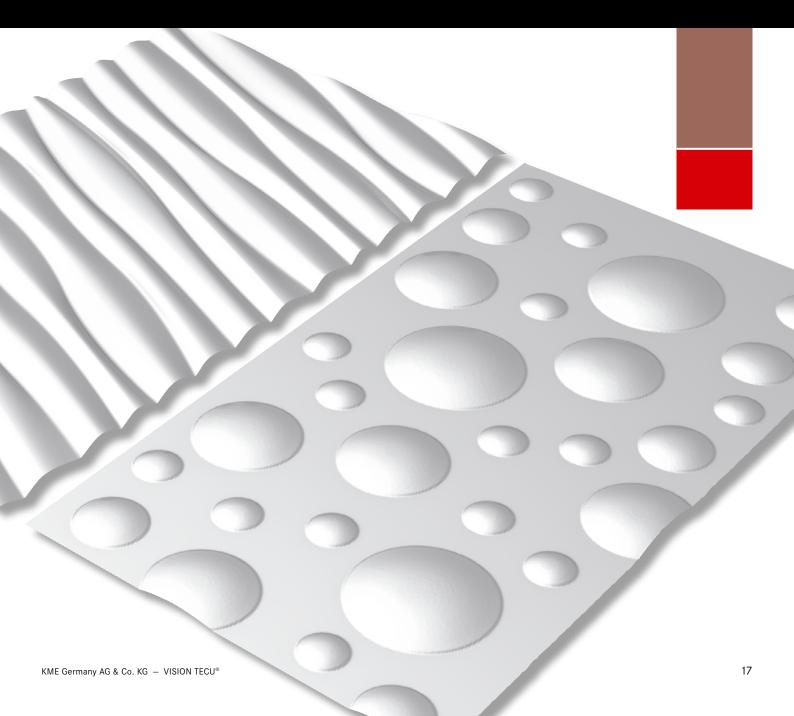






_shape (all types)			
	Dimensions	670 x 2000	1000 x 2000
	Thickness	1.0	1.0
	TECU® Classic	+	+
	TECU® Oxid	+	+
	TECU® Patina	+	+
	TECU® Zinn	+	+
	TECU® Brass	+	+
	TECU® Bronze	+	+
	TECU® Gold	+	+







### KME Germany AG & Co. KG

Postfach 33 20 49023 OSNABRÜCK Klosterstraße 29 49074 OSNABRÜCK GERMANY Fon +49 (0)541 321-2000 Fax +49 (0)541 321-2111 www.kme.com info-tecu@kme.com

### KME Italy S.p.A.

Via Corradino d'Ascanio, 4 20142 MILANO ITALY Fon +39 02 89388-206/-244/-452 Fax +39 02 89388-478 www.kme-italy.com info-tecu-italy@kme.com

### KME France S.A.S.

11 bis, rue de l'Hôtel de Ville 92411 COURBEVOIE CEDEX FRANCE Fon +33 (0)1 47896-849 Fax +33 (0)1 47896-932 www.kme-france.com

### KME Spain S.A.

Ctra Sabadell Mollet, km5 Sta. Perpètua de Mogoda 08130 BARCELONA SPAIN Fon +34 93 5747090 Fax +34 93 5747091 www.kme-iberica.com info-iberica@kme.com

### KME Yorkshire Limited

Severn House, Prescott Drive Warndon Business Park WORCESTER WR4 9NE UNITED KINGDOM Fon +44 (0)1905 751800 Fax +44 (0)1905 751801 www.yct.com info@yct.com

### KME America Inc.

1000 Jorie Boulevard, Suite 111
OAK BROOK, Illinois 60523
USA
Fon +1 (0) 630 990-2025
Fax +1 (0) 630 990-0258
www.kme.com
info-america@kme.com

### KME Asia Pte. Ltd.

51 Geylang Lorong 17 #06-01 Superior Industrial Building SINGAPORE 388571 SINGAPORE Fon +65 6337-8671 Fax +65 6337-8571 www.kme.com info-asia@kme.com

### KME Austria

Vertriebsgesellschaft m.b.H. Slamastraße 48 Postfach 128 1232 WIEN AUSTRIA Fon +43 (0)1 6167986-0 Fax +43 (0)1 6167986-36 www.kme.com info-at@kme.com

### **NV KME Benelux SA**

Leuvenbaan 3 1820 STEENOKKERZEEL BELGIUM Fon +32 (0) 2 720-1889 Fax +32 (0) 2 720-8780 www.kme.com info-benelux@kme.com

### Netherlands:

J.E. van Nieuwkoop P/a Postbus 146 3300 AC DORDRECHT NETHERLANDS Fon +31 (0)78 6212991 Fax +31 (0)78 6212048 www.kme.com info-nl@kme.com

### KME Czech Republic s.r.o.

nám. Sítná 31 05 27201 KLADNO CZECH REPUBLIC Fon +42 (0) 312 608250 Fax +42 (0) 312 608251 www.kme.com info-cz@kme.com

### KME Danmark A/S

Landbrugsvej 8 5260 ODENSE S DENMARK Fon +45 65 916410 Fax +45 65 916411 www.kme.com info-dk@kme.com

#### Sweden:

KME Danmark A/S, Sweden Box 118 64723 MARIEFRED SWEDEN Fon +46 15 910612 Fax +46 15 910613 www.kme.com info-s@kme.com

### KME Hungaria Színesfém Kft.

Andor u. 47-49 VI. em. 616-618 1119 BUDAPEST HUNGARY Fon +36 (0)1 2059775 Fax +36 (0)1 2059776 www.kme.com info-hu@kme.com

### KME Polska Sp. z o.o.

ul. Potocka 14 01-652 WARSZAWA POLAND Fon +48 (0) 12 4116370 Fax +48 (0) 12 4116370 www.kme.com info-polska@kme.com

### KME (Suisse) SA

Moosstrasse 2
Postfach
8803 RÜSCHLIKON
SWITZERLAND
Fon +41 (0)43 3882000
Fax +41 (0)43 3882001
www.kme.com
info-ch@kme.com

Case postale 111
Av. de Châteleine 91a
1219 CHÂTELEINE-GENÈVE
SWITZERLAND
Fon +41 (0)22 9790660
Fax +41 (0)22 7966610
www.kme.com
info-ch@kme.com



