SELECTION OF COMPLETED PROJECTS

School Weid, Pfäffikon CH	HSR Hochschule für Technik, Rapperswil CH
Neuer Wall, Hamburg D	School, Paspels CH
Royal Palace, Amman JORD	Dresdner Bank, Berlin D
World Squares, London GB	New Parliamentary Building, London GB
Churchill Place RT4, London GB	Allianz Versicherung, Hamburg D
Landeszentralbank, Chemnitz D	Bewag Shellhaus, Berlin D
National Museum, Vaduz FL	Education center UBS, Basel CH
Domplatz, Magdeburg D	Stockerhof, Zurich CH
Old National Gallery, Berlin D	Friedrichstadtpassagen, Berlin D
Swiss Embassy, Berlin D	Winterthur Versicherung, Vienna A
Unter den Linden 80, Berlin D	Bank Sarasin, Basel CH
Swiss Re, Rüschlikon CH	Picassoplatz, Basel CH
Foreign Office, Berlin D	Bawag-Bank, Bregenz A
Bayerische Vereinsbank, Munich D	Iduna Versicherungen, Hamburg D
Landeszentralbank, Meiningen D	Bracken House, London GB
Daimler and Debis A1, Berlin D	Landeszentralbank, Kiel D
Carlton Gardens, London GB	Banque Hypothécaire du Canton, Geneva CH
Unter den Linden 78, Berlin D	Nederland'sche Bank, Amsterdam NL
Main Tower II, Francfort D	Transport Ministry, Bonn D

SWISS MADE

ISO 9001
ISO 14001
BUREAU VERITAS
Certification

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ARCHITECTURAL BRONZE – A HIGH-PROFILE MATERIAL

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BAOSHIDA SWISSMETAL – THE SPECIALIST FOR BRONZE SECTIONS

Architectural bronze, the epitome of noble elegance, adds a note of lasting value to contemporary architecture. Technical properties, simple processing and resistance to weathering make this metal an interesting material for your building projects. Not only that, it makes good economic sense too. You can design your very own customized solution with the help of our experts, or choose from a wide range of standard sections.

Architectural bronze is a competitive material.
The advantages:

- Noble
- Load-bearing
- Resistant to weathering
- Low maintenance
- Easily formed
- Simple to process
- Cost-effective
- 100% recyclable

COLOUR SHADES

Bronze gives your building a warm, refined aura. The colour scale of alloys ranges from gold yellow, through yellowy brown to reddish brown. Outdoors, bronze develops a natural patina that varies from pale brown to deep brown and anthracite grey shades. The surface finish can be glossy or matt to intensify or mute the colour effect to your exact preferences.

Architectural bronze has a unique depth of colour.
The surface treatment:

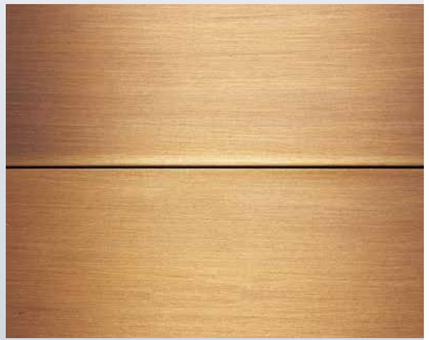
- Polishing
- Burnishing
- Brushing
- Shot blasting

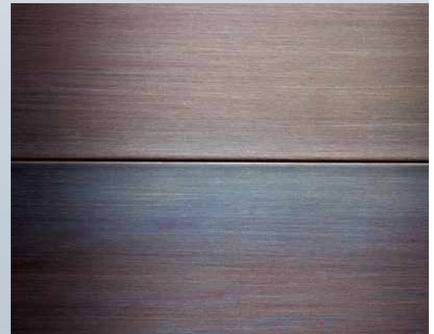
LASTING VALUE

Architectural bronze is the material of choice when maximum durability is required. It is timeless and blends discretely into sensitive surroundings or into environments under heritage protection.
It harmonizes with other building materials without dominating them. The patina forms a natural protective layer which guarantees a long life with minimum maintenance. Investment costs are therefore amortized within a few years.

Architectural bronze is cost-effective in the long term.
The reasons:

- Long life
- Minimum maintenance
- Simple processing
- Timeless combinations possible





A RICH VARIETY OF SHAPES

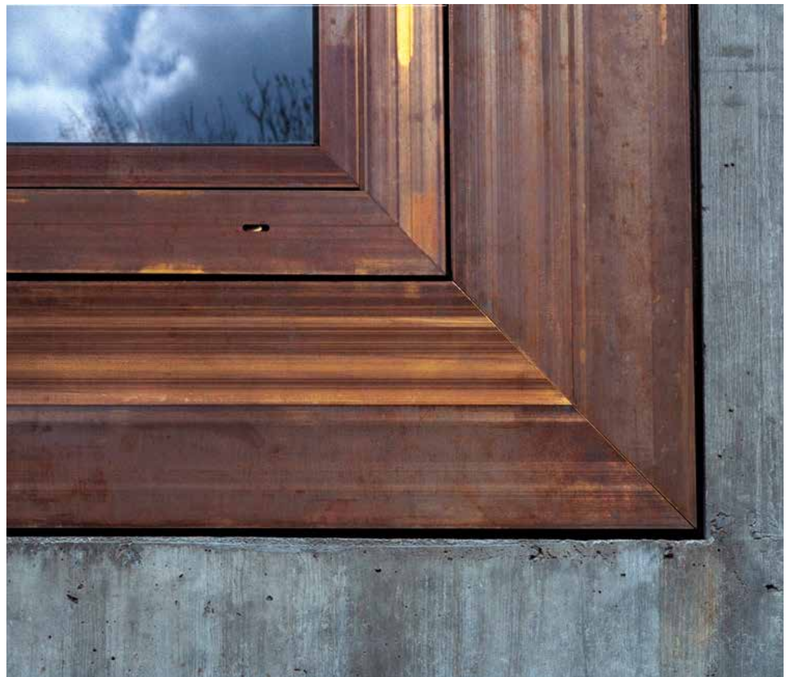
The ease with which architectural bronze can be formed opens up enormous design possibilities for window frames, façades and door sections. Individualized, detailed solutions are possible throughout building interiors. Through our specialized materials know-how, we are able to complex forming processes and our special set-up in production opens a wide range of dimensions and of order sizes.

Architectural bronze can be processed by various techniques:

- Press-in (mechanical) joining
- Rolling
- Screw connection
- Adhesive joining
- Soldering
- Welding

PROFESSIONAL COMPETENCE

Since over hundred years, Baoshida Swissmetal is supporting architects, system providers and metal processors with the know-how for shapes with various complexity. Their visions and ideas can be materialized in a timely and reliable way.



TECHNICAL PROPERTIES

Architectural bronze has high tensile and compressive strength. Its specific weight is comparable with that of steel. Low thermal expansion values allow the use of bronze sections in exposed positions and in the design of high-tech façades. Its resistance to corrosion also makes architectural bronze the ideal material in regions with an aggressive climate.

Architectural bronze provides environmental friendly solutions: With its patina our material protects itself from long term wear out of sensitive elements to the environment. Minimum Lead content of Architectural bronze DornaA is at requested levels of installations for drinking water and the material can be 100% recycled in our own processes.

COMPARISON OF ARCHITECTURAL BRONZE WITH OTHER MATERIALS

	Architectural bronze extruded	Aluminium AlMgS 10.5	Stainless steel A4
Specific weight (kg/dm³)	8.3	2.7	7.95
Coefficient of thermal expansion (mm/m x 10°C)	0.19	0.23	0.16
Thermal conductivity (W/mK)	79	200	15
Young's modulus (kN/mm²)	83	70	210
Ultimate tensile strength (N/mm²)	390	> 210	450 – 700
Yield strength (0.2% offset) (N/mm²)	ca. 200	> 170	> 200
Elongation A_5 (%)	ca. 20	10 – 15	> 40

PRODUCT VARIETY

The standard range for exterior and interior use satisfies most of our customers' wishes. All aluminium or stainless steel section shapes can be produced in bronze on request. Wall thicknesses range from 1.0 to 4.0 mm. The maximum size for solid sections is defined by a circumscribed circle of 180 mm. Production tolerances are restricted to 2/3 of the specification of DIN standard 17674, sheet 4.

Baoshida Swissmetal is the global technology leader for hollow cellular sections and thermally isolated systems made of architectural bronze. The range:

- Solid sections
- Filigree open sections
- Cellular sections
- Sections for thermally isolated systems
- Handrail and railing sections