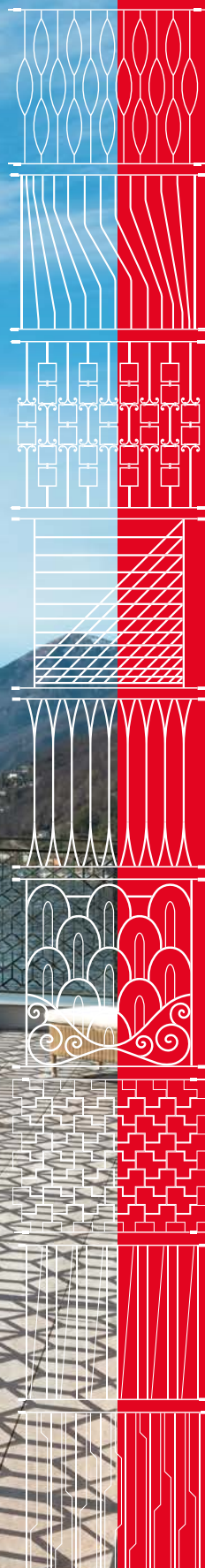




by *arteferro*<sup>®</sup>

# RAILING SYSTEMS

CI/Sfb	(34)
March 2021	



**aalco**<sup>®</sup>

ARCHITECTURAL  
HANDRAIL  
SYSTEMS

[www.aalco-handrail.com](http://www.aalco-handrail.com)



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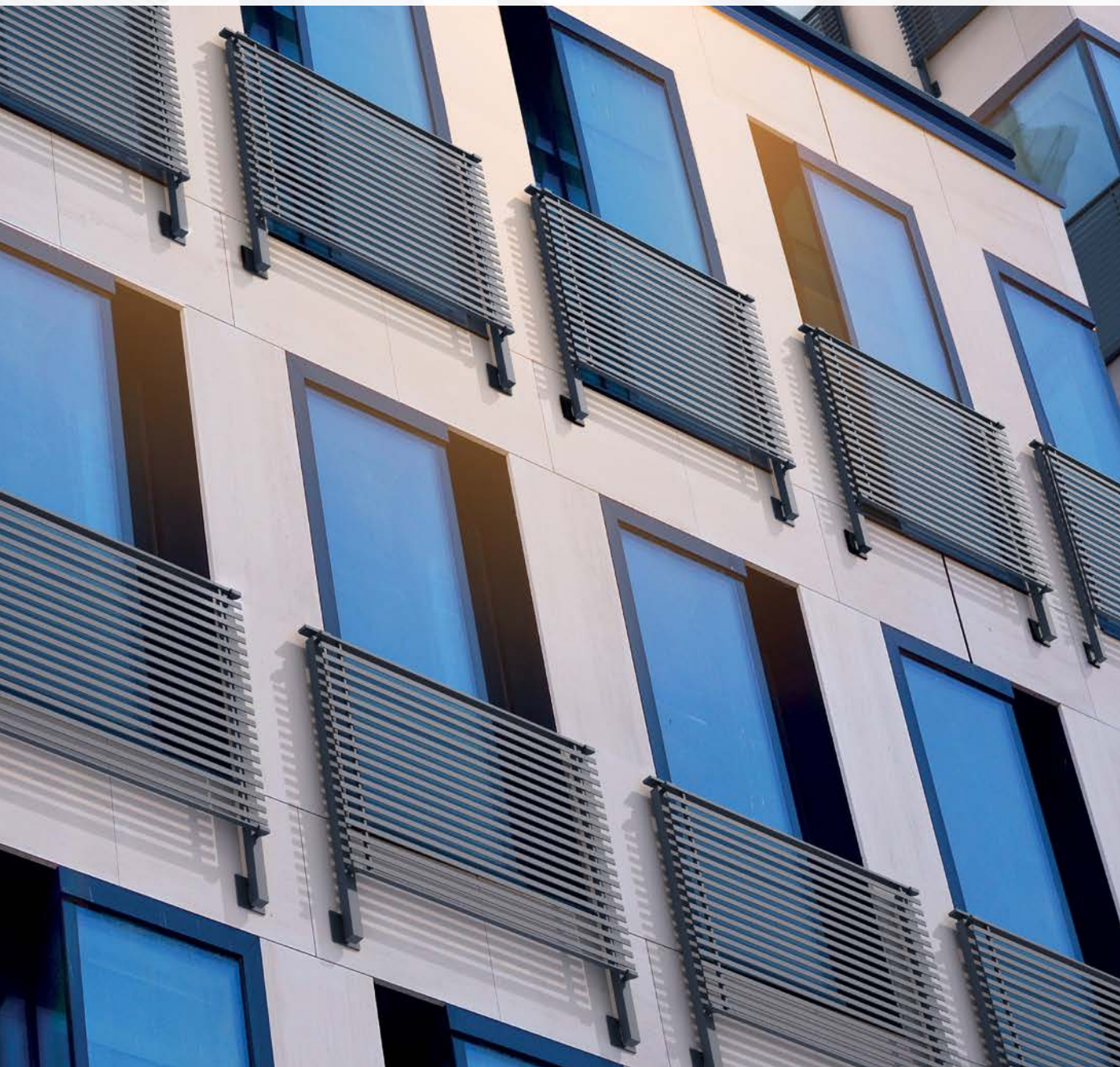




Aalco is the largest independent stockholder of multi-metals in the UK.

Working with our Italian partner Arteferro, Aalco Architectural Handrail Systems has produced a new range of revolutionary prefabricated wrought iron railing and balcony systems: the GD SYSTEM. Perfect for commercial and residential use, this fully certified system is available in a range of designs and finishes. In a fast-paced world, where time is of the essence, ease and speed of installation are also characteristics of our system.

The CERTIFIED GD SYSTEM is the solution to your railing requirements and this brochure outlines just some of the options and design ideas that you can apply to breathe fresh life into your projects.



GD RAILING SYSTEM

**aalco**® | ARCHITECTURAL  
HANDRAIL  
SYSTEMS

[www.aalco-handrail.com](http://www.aalco-handrail.com)

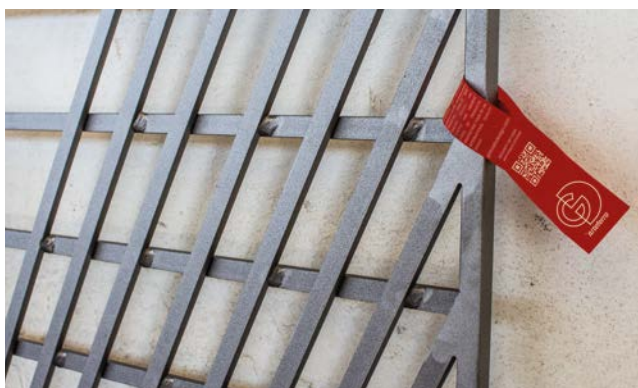


# WHY GD?



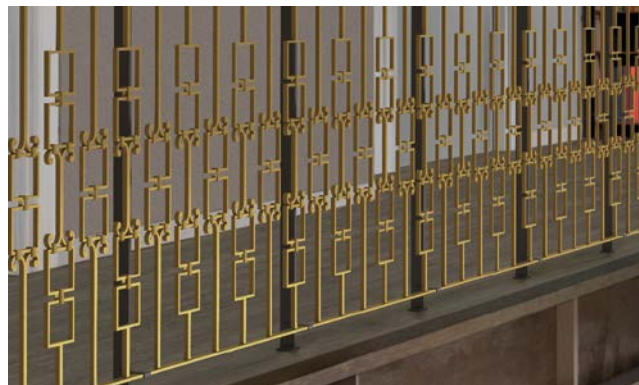
## PRODUCTION

WE TAKE CARE OF EVERY ASPECT OF THE PRODUCT, FROM CONCEPT TO PRODUCTION. Our range, unlike most on the market, is manufactured at our own production centres in Italy and Europe and subjected to stringent quality testing. That means we know the entire life cycle of every item, from creation to delivery. Furthermore, we are the only company in the industry that can boast a production capacity which allows us to meet individual special requests in a short timeframe.



## GUARANTEED, CERTIFIED AND PATENTED QUALITY

OUR RANGE IS MANUFACTURED IN OUR DEDICATED PRODUCTION FACILITIES IN ITALY AND OTHER EUROPEAN COUNTRIES. We manage the entire production line, thereby guaranteeing optimum quality. This quality is independently verified through our ISO 9001 and ISO 14011 certifications. Given the originality of our products, many have gone through the patents process to protect both the talent of our designers and the trust of our clients. Dedicated labels affixed to our products provide traceability, clearly identifying their origin to help protect against counterfeiting.



## CUSTOMISATION AND TOP QUALITY

OUR WIDE CHOICE OF FINISHES AND MATERIALS. From design to production, every step of the process is carried out by our designers and technicians to satisfy all structural, architectural and aesthetic requirements. Send us a plan of your terrace or fence and we will take care of everything else.



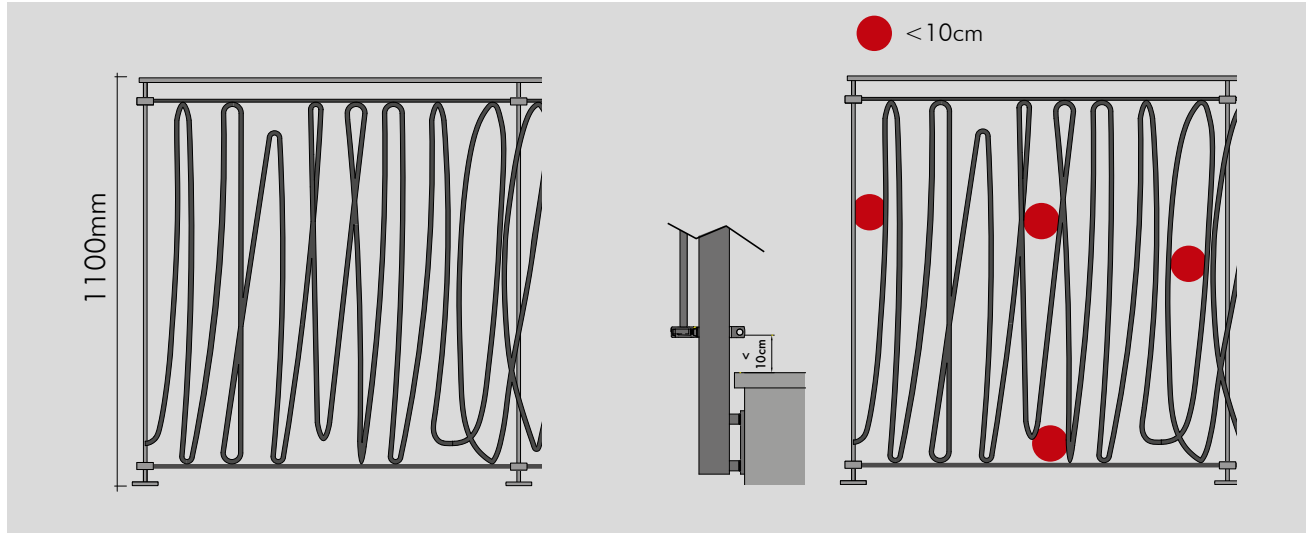
## INNOVATION

OUR CUSTOMERS' NEEDS ARE ALWAYS OUR PRIMARY FOCUS. Our team of designers and engineers work daily to design new products which not only fulfil our exacting aesthetic standards but also meet the latest technical requirements. To ensure we stay current and at the forefront of new product development, we are constantly looking at different materials (wood, glass and many more), using them in our lines to enhance both their structural and design characteristics. We believe that our products should be easy to assemble and readily integrate with other architectural elements, offering maximum flexibility to adapt to the environment in which they are installed.



# REGULATIONS

THE RAILINGS MUST  
BE 1000MM HIGH



The **GD System** railings  
are **1100mm** high and meet the standard  
UNI 10809:1999

The gaps between the protection elements  
of our **GD System** railings are  
all less than **10cm**

AT HEIGHTS WITH A POTENTIAL FOR FALLING MORE THAN 500MM, HAVING NO CLIMBABLE  
ELEMENTS IS COMPULSORY.



The handrail of the **GD System** is deliberately positioned in relation to the infill panel, so it meets the  
safety requirements regarding anti-climbing



TEST VIDEO

[www.aalco-handrail.com](http://www.aalco-handrail.com)



# THE LAB

In our factory we have created an area dedicated to testing all output. Detailed in the table are just some of the tests we regularly conduct. The highest standards of quality and safety are the platform on which all our manufacturing processes are based given that optimum performance of our systems is crucial. To verify compliance with specific functional and performance criteria, measurements, investigations and regular inspections are carried out in the dedicated test facility. Our products are qualitatively tested before, during and after production by qualified experts. In addition, for many years this has been backed by objective, independent third party testing by certification bodies. This has seen our products certified to the respective standards operating in many European countries, providing peace of mind for our customers that

in choosing our systems, they are meeting the statutory requirements. Listed below are just some of the tests that we undertake daily.

## STATIC TESTS PRE- AND POST-BREAKAGE

These tests are performed according to strict safety standards, defining the criteria and static, concentrated and distributed loads, pre- and post-breakage, of railings, balustrades and prefabricated railings.

## DYNAMIC TESTS

This involves striking specific points of the railing systems with a moving object. The objective is to ascertain the level of safety, even in the event of sudden impacts.



Minimum horizontal imposed loads for parapets, barriers and balustrades

Type of occupancy for part of the building or structure	Examples of specific use	Horizontal uniformly distributed line load (kN/m)	Uniformly distributed load applied to the infill (kN/m <sup>2</sup> )	A point load applied to part of the infill (kN/m)
Domestic and residential activities	(i) All areas within or serving exclusively one single family dwelling including, stairs, landings, etc. but excluding external balconies and edges of roofs.	0.36	0.5	0.25
	(ii) Other residential, i.e. houses of multiple occupancy and balconies, including Juliette balconies and edges of roofs in single family dwellings.	0.74	1.0	0.5
Offices and work areas not included elsewhere, including storage areas	(iii) Light access stairs and gangways not more than 600mm wide.	0.22	-	-
	(iv) Light pedestrian traffic routes in industrial and storage buildings except designated escape routes.	0.36	0.5	0.25
	(v) Areas not susceptible to overcrowding in office and institutional buildings, also industrial and storage buildings except as given above.	0.74	1.0	0.5
Areas where people might congregate	(vi) Areas having fixed seating within 530mm of the barrier, balustrade or parapet.	1.5	1.5	1.5
Areas with tables or fixed seating	(vii) Restaurants and bars.	1.5	1.5	1.5
Areas without obstacles for moving people and not susceptible to overcrowding	(viii) Stairs, landings, corridors, ramps.	0.74	1.0	0.5
	(ix) External balconies including Juliette balconies and edges of roofs. Footways and pavements within building curtilage adjacent to basement/sunken areas.	0.74	1.0	0.5



## Categories of use

Category	Specific use	Example
<b>A</b>	Areas for domestic and residential activities	Rooms in residential buildings and houses; bedrooms and wards in hospitals; bedrooms in hotels and hostels, kitchens and toilets.
<b>B</b>	Office areas	
<b>C</b>	Areas where people may congregate (with the exception of areas defined under category A, B and D <sup>1</sup> )	<b>C1</b> : Areas with tables, etc. e.g. areas in schools, cafés, restaurants, dining halls, reading rooms, receptions.
		<b>C2</b> : Areas with fixed seating, e.g. areas in churches, theatres or cinemas, conference rooms, lecture halls, assembly halls, waiting rooms, railway waiting rooms.
		<b>C3</b> : Areas without obstacles for moving people, e.g. areas in museums, exhibition rooms, etc. and access areas in public and administration buildings, hotels, hospitals, railway station forecourts.
		<b>C4</b> : Areas with possible physical activities, e.g. dance halls, gymnastic rooms, stages.
		<b>C5</b> : Areas susceptible to large crowds, e.g. in buildings for public events like concert halls, sports halls including stands, terraces and access areas and railway platforms.
<b>D</b>	Shopping areas	<b>D1</b> : Areas in general retail shops
		<b>D2</b> : Areas in department stores

<sup>1</sup> Attention is drawn to 6.3.1.1(2), in particular for C4 and C5. See EN 1990 when dynamic effects need to be considered.

NOTE 1 Depending on their anticipated uses, areas likely to be categorised as C2, C3, C4 may be categorised as C5 by decision of the client and/or National annex.

NOTE 2 The National annex may provide sub categories to A, B, C1, D1 and D2.

NOTE 3 See 6.3.2 for storage or industrial activity.

# THE IDEA

## SAFETY, DESIGN, EASE AND SPEED OF INSTALLATION: THIS IS THE CERTIFIED GD SYSTEM

At the outset we wondered if it was possible to combine beauty and safety in a wrought iron-based product. We discovered the answer was 'yes': the CERTIFIED GD SYSTEM was born. Since then, as the system has developed, safety has become synonymous with professionalism and competence, both for us and for our customers.

Driven by this, we have always adopted the principle of "thinking first, designing second". This has underpinned the development of a system of certified and modular parapets, all tested in our laboratories to exacting standards. Testing parameters include a project load of 1.5kN/m and a safety load of up to 2.25kN/m.

In a fast-paced world, where time is of the essence, ease and speed of installation are also characteristics of our system. The prefabricated modules produce not only a beautiful design but do so without time consuming installation. This approach offers the installer a ready-to-use module that requires no further welding, painting or galvanising. In fact, our panels can be totally customised through different materials, colours and finishes.

### SAFETY



### DESIGN



### EASY INSTALLATION



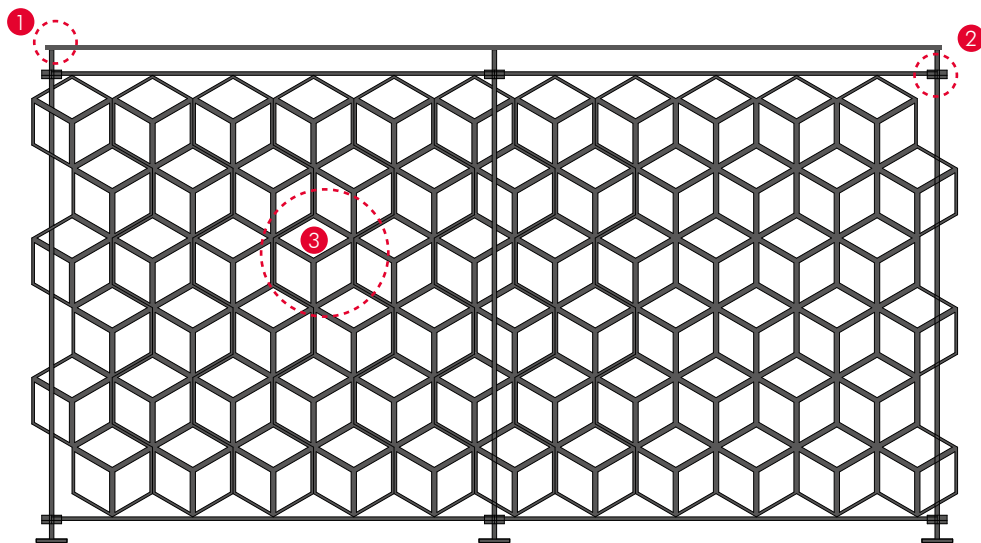


# THE SYSTEM



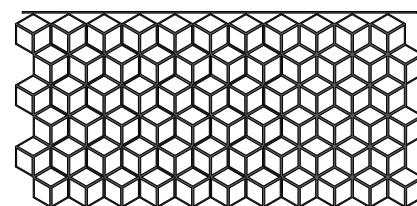
1

The GD post is the supporting structure of our certified system. It has successfully passed resistance tests to a loading stress of 0.74kN/m and 1.5kN/m. It is available in flat, round or square options.



2

The clamp connects the panel to the supporting structure and has been designed to adapt to different post profiles: flat, round or square. The iron shown here is a black micaceous material.



3

The panel is the ornamental part of our system. The geometric lines of the collection are matched appropriately with the materials used. The iron in the panel illustrated above is just one example of the timeless designs available.



TO REACH CERTIFICATION STANDARDS, THE USE OF THREADED INSERTS IS MANDATORY

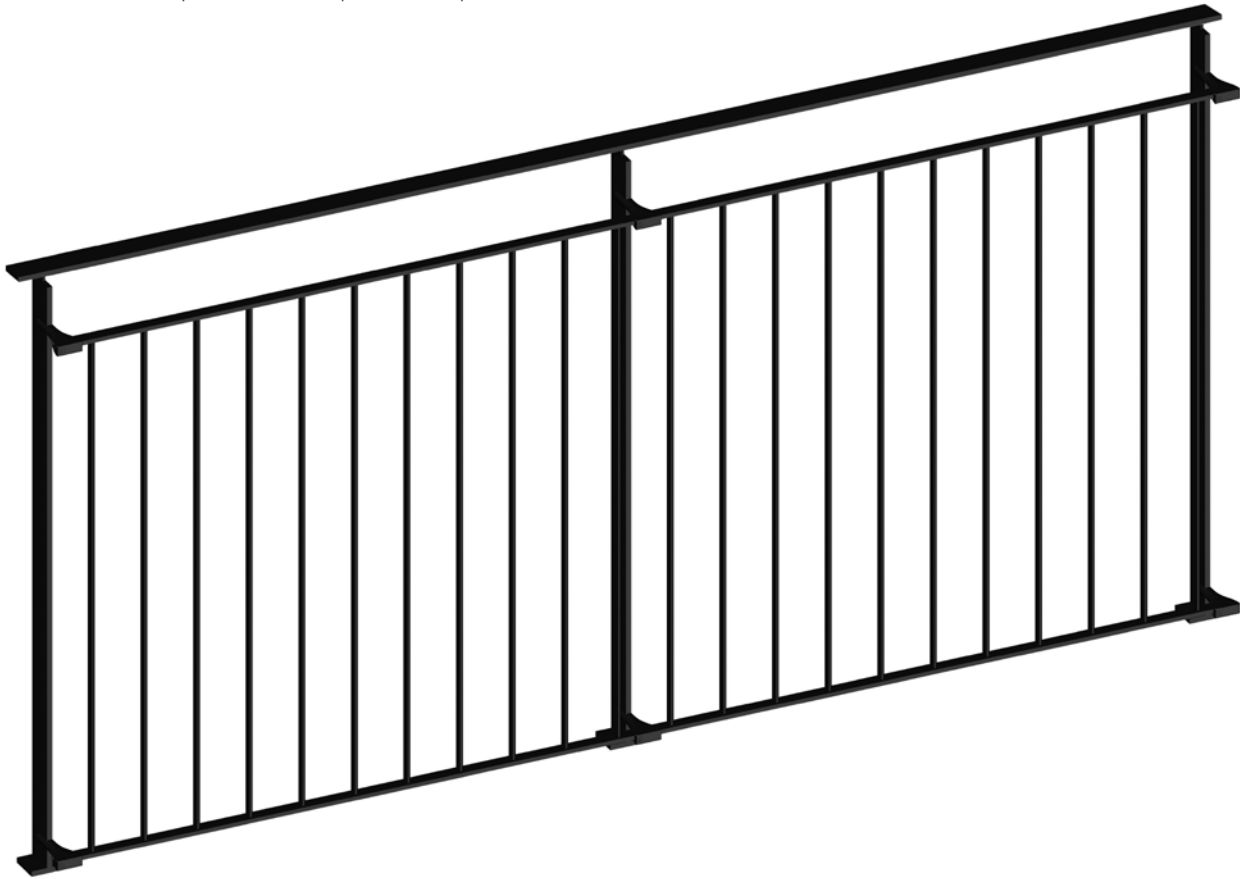


TUTORIAL VIDEOS

# GD RAILING SYSTEM

Our patented modular system totally revolutionises the concept of iron railings. Right from the very outset, with the positioning of the newel posts, the risk of falling from above can be significantly reduced. Innovation is at the heart of the GD System which offers a timeless and high quality solution. Its inherent flexibility ensures it can be adopted to meet any requirement and, importantly, in compliance with current legislation. It is ideally suited to both private and public

construction projects and is fully customisable to meet design loads of 0.74kN and 1.5kN, thanks to the certified newel posts. The wide range of panels means there is an option to suit many different environments, with the modular, customisable approach meaning it can match its surroundings perfectly. For staircase balustrades, we can supply panels at the appropriate angle for a given application.



## GD FRENCH BALCONY

The GD French Balcony is a modern design, providing an ideal option for protecting outward facing room balconies without impacting negatively on the building façade. It is available in two versions: the first for direct anchorage to a wall and the second to allow for walls treated with external cladding.





# FINISHING

## FINISHING

All our finishing is achieved with powder coating, a metallic surface covering process using an organic film to create a finish both for decorative purposes and as protection from corrosion and aggressive agents. All products within our GD System range can be powder coated. If steel items are used in exterior applications, sand-blasting and galvanising are recommended before painting. All colours on the RAL colour chart are

available, along with selected special finishes produced through our team of expert varnishers.

Before painting the products are subjected to a spray-metallisation treatment which guarantees a greater resistance to atmospheric agents over time.

## FINISHING

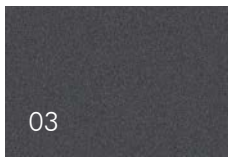


Raw

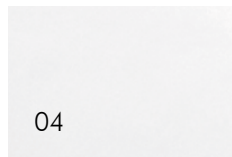


Metallisation arcspray process

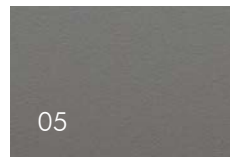
## STANDARD PAINTING



Anthracite

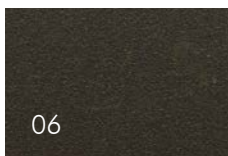


White

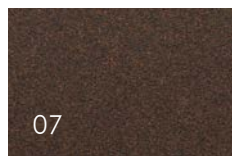


Grey

## SPECIAL PAINTING



Ancient bronze



Corten



Gold

In addition to the colours shown here, the full RAL range is available

# THE STRUCTURE & NEWEL POSTS

The GD certified system comprises a structural core formed by 2 posts, along with a customisable handrail. This provides safety in a design that is in harmony with its environment.

The clamps can be adapted to accommodate 3 different post profiles: flat, round or square.

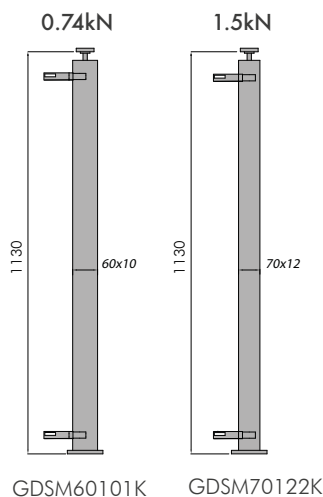
## FLAT POST

Tube flat handrail  
60 x 20mm



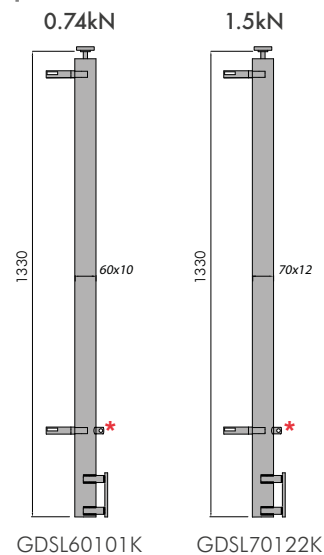
Wall anchorage

Floor anchorage



GDSM60101K

GDSM70122K



GDSL60101K

GDSL70122K

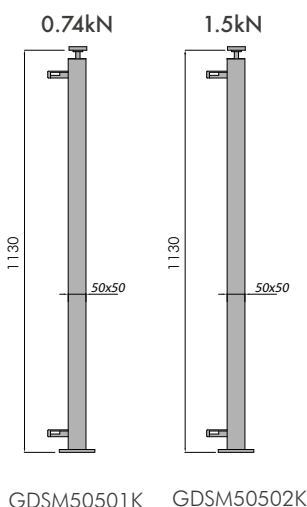
## SQUARE POST

Tube flat handrail  
60 x 20mm



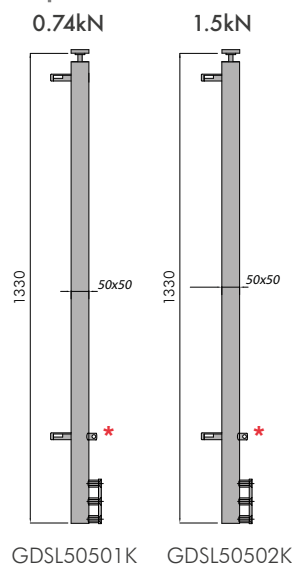
Wall anchorage

Floor anchorage



GDSM50501K

GDSM50502K



GDSL50501K

GDSL50502K



# THE STRUCTURE & NEWEL POSTS

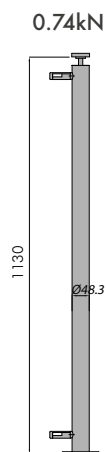
## ROUND POST

Tube flat handrail  
60 x 20mm

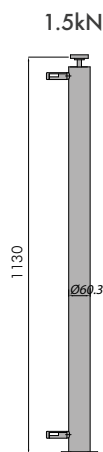


Wall anchorage

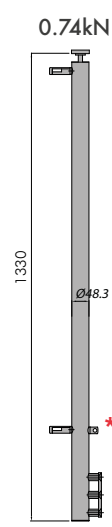
Floor anchorage



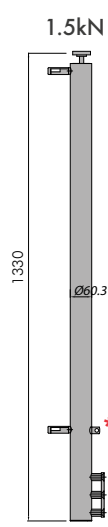
GDSM48301K



GDSM60302K



GDSL48301K

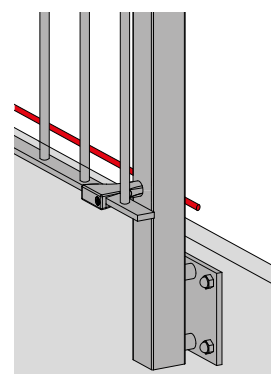
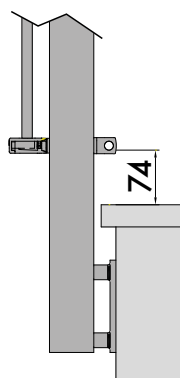


GDSL60302K

### \* SAFETY DETAIL OF LATERAL ANCHORAGE

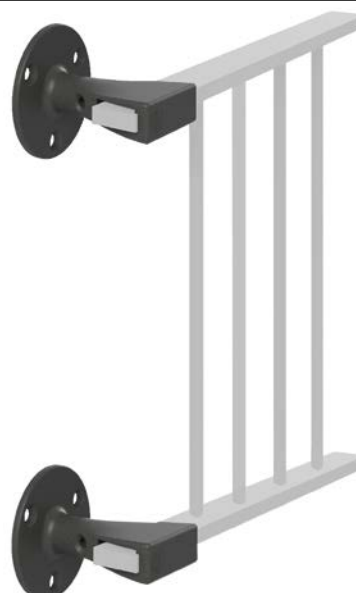
To meet the safety criteria required by the various and increasingly stringent regulations, in the event of lateral anchorage it is necessary to insert the Ø 12mm safety round bar. Installed at the correct distance (74mm as shown in diagram opposite), the round bar is concealed and prevents the possibility of falling.

⚠ For the handrails see page 37



### ANCHORAGE WITH CLAMP FOR BALCONY

⚠ We supply the GD system kit for direct anchoring on wall also with insulating coating. See page 37.

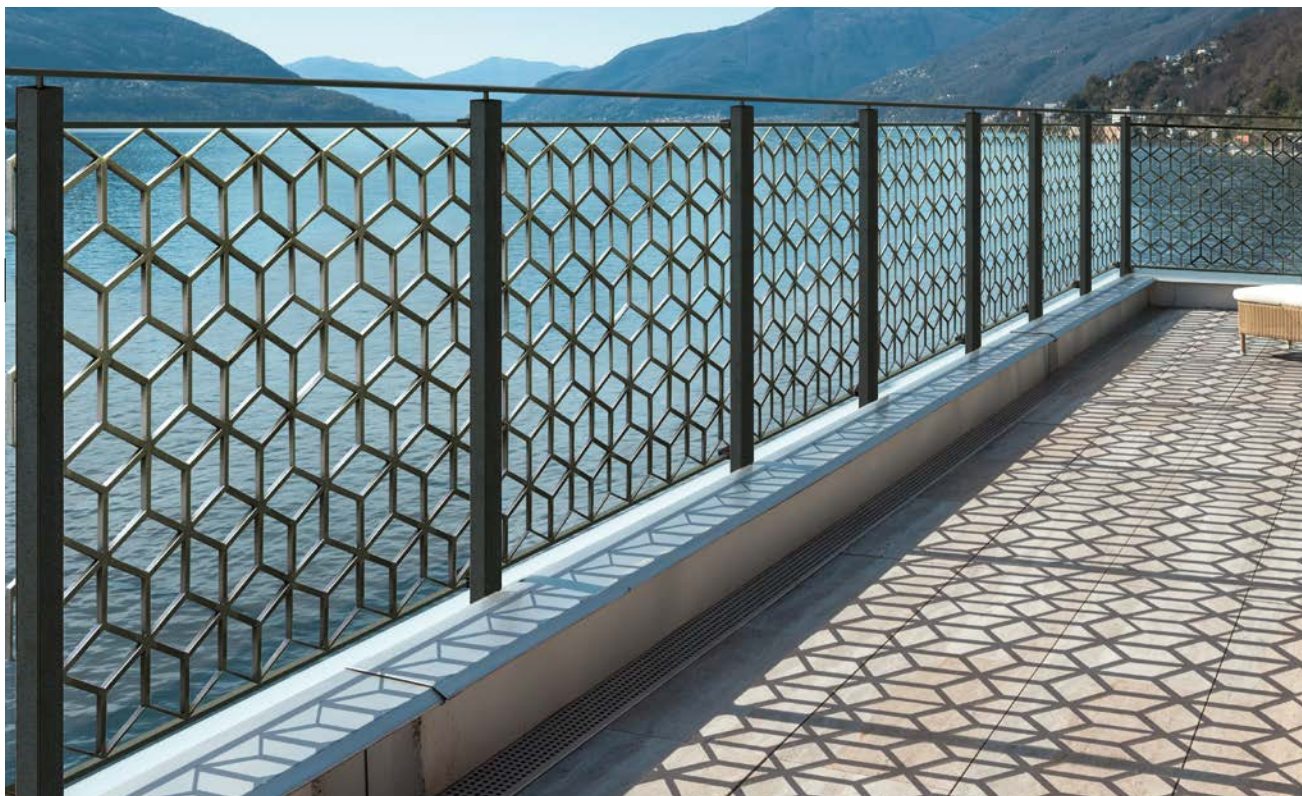




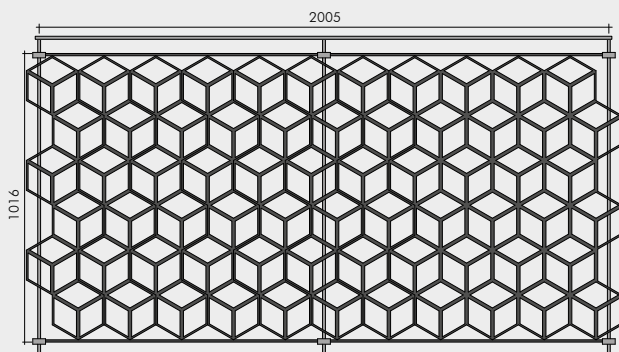
## THE PANELS

THE PANELS

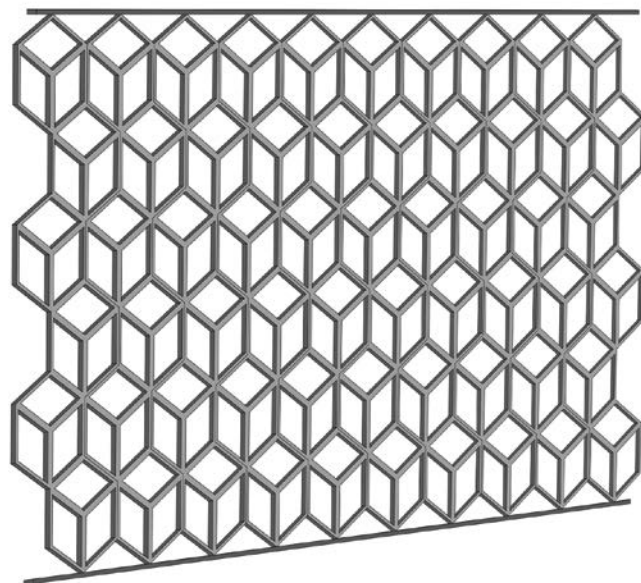
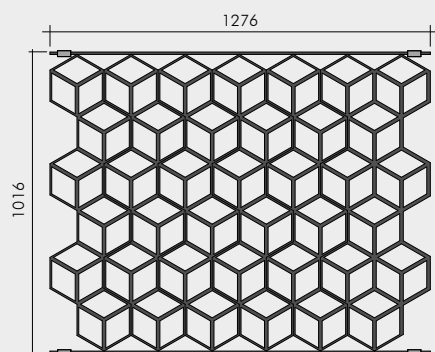




RAILING



BALCONY



USE



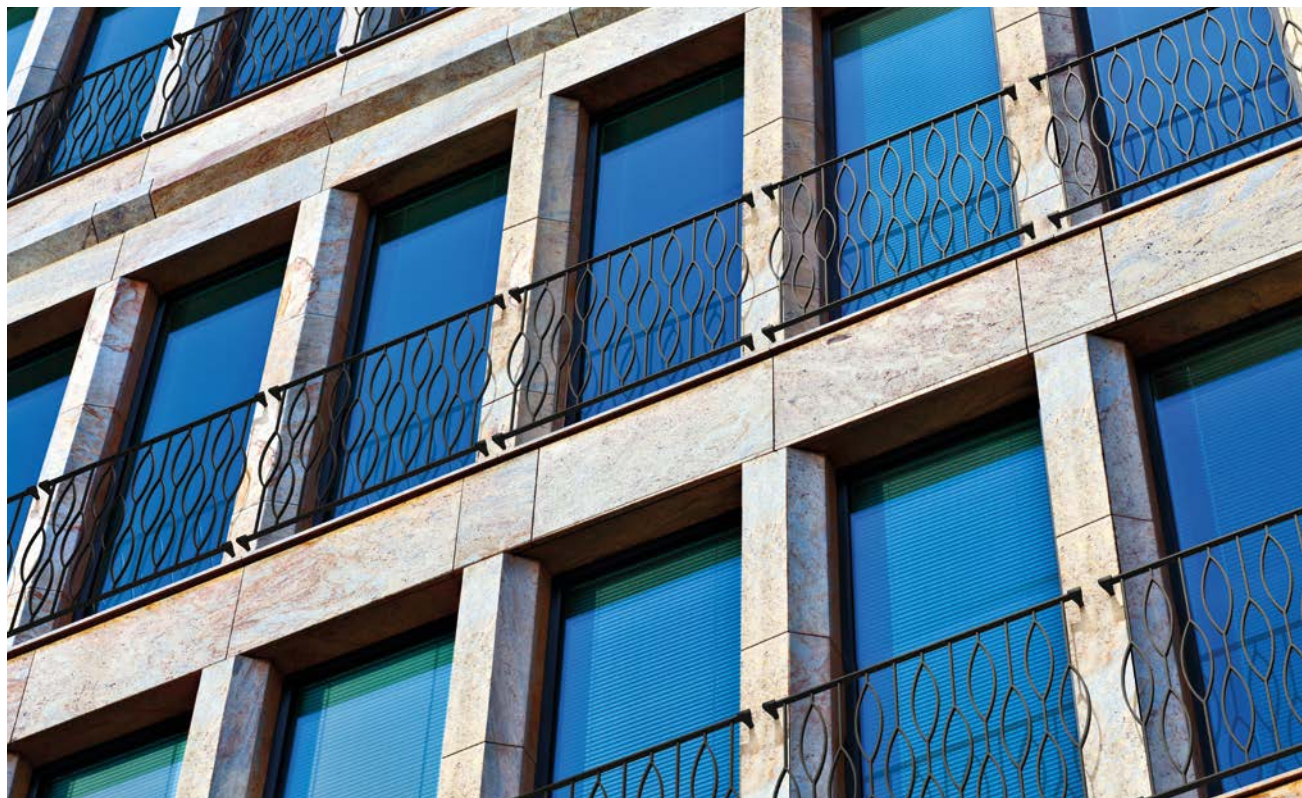
ANCHORING



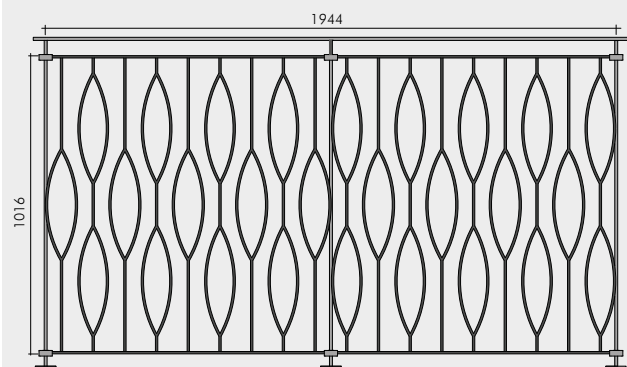
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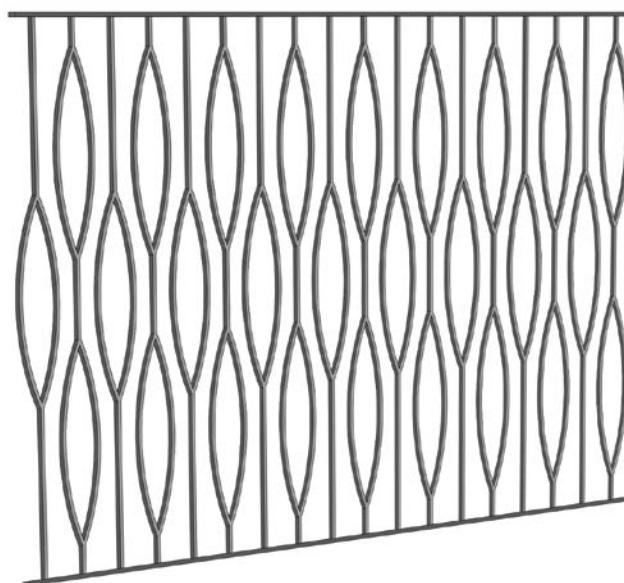
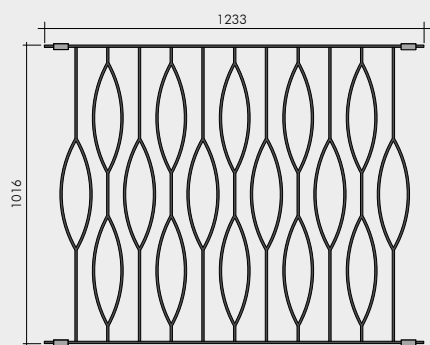
# FIRENZE



RAILING



BALCONY



USE



ANCHORING



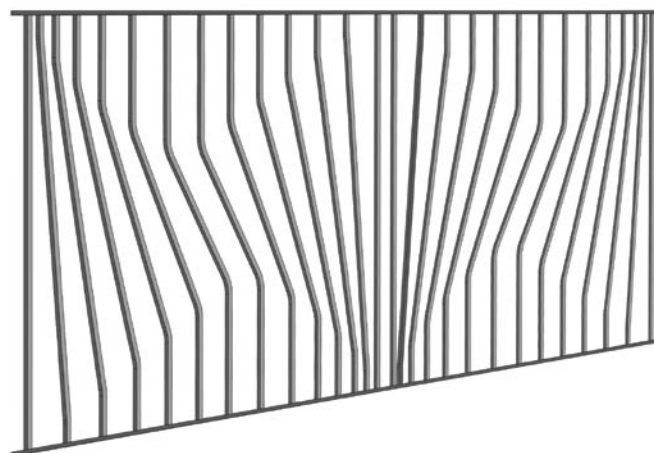
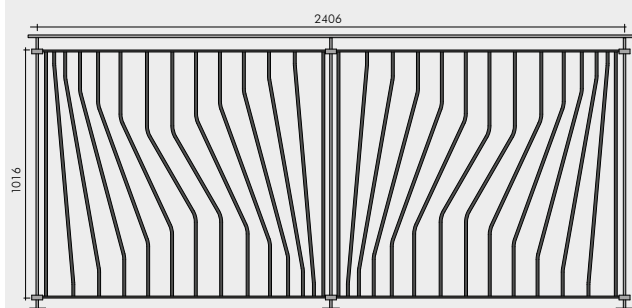
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FIRENZE

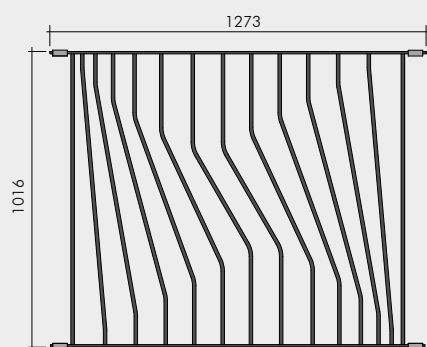




RAILING



BALCONY



USE

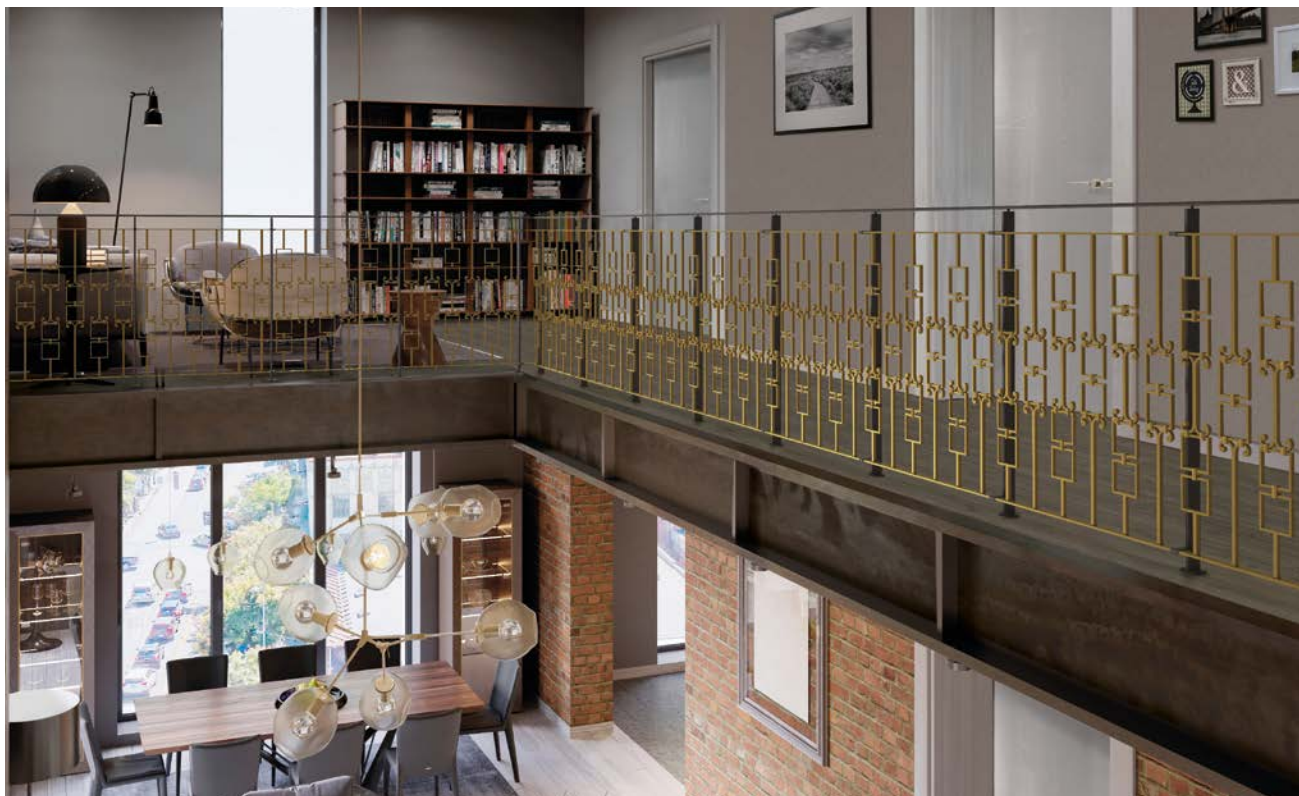


ANCHORING

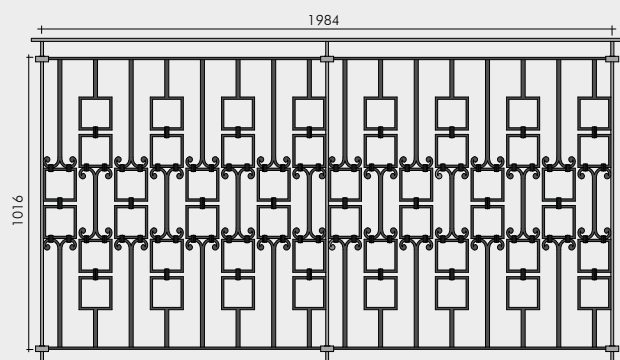


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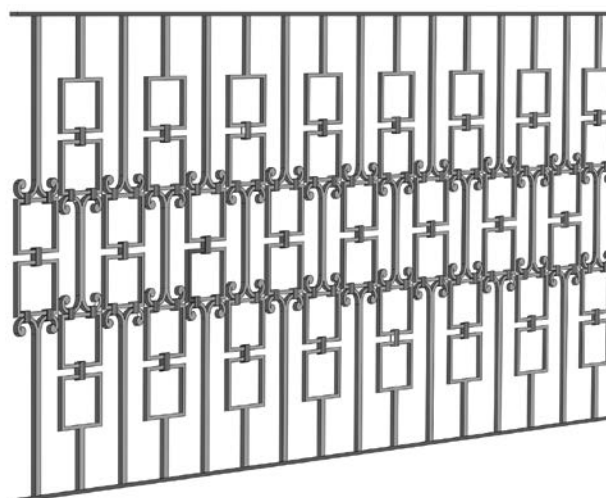
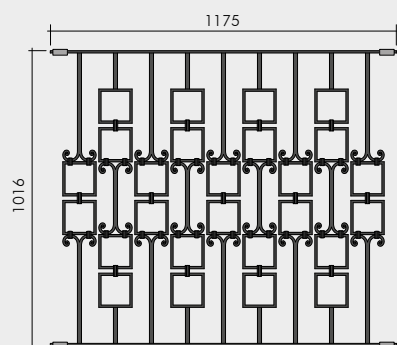
# ROMA



## RAILING



## BALCONY



USE



ANCHORING



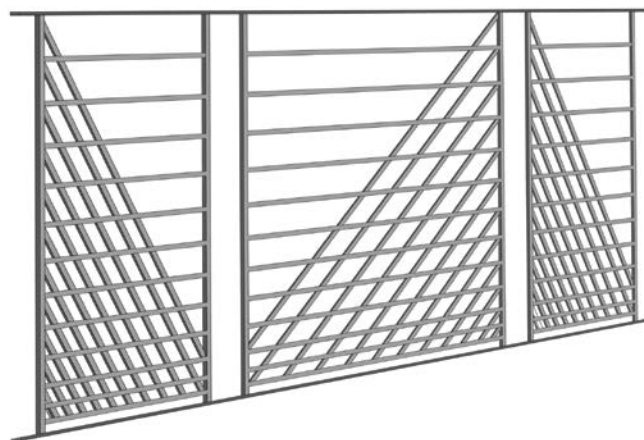
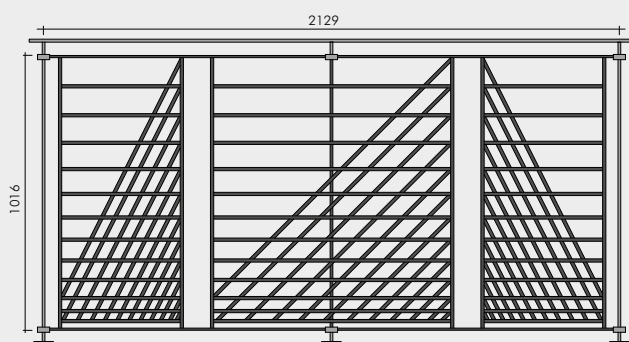
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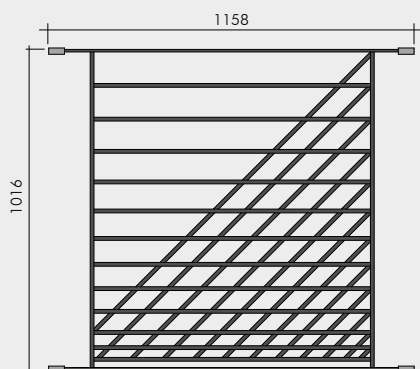
# BOLZANO



RAILING



BALCONY



USE



ANCHORING



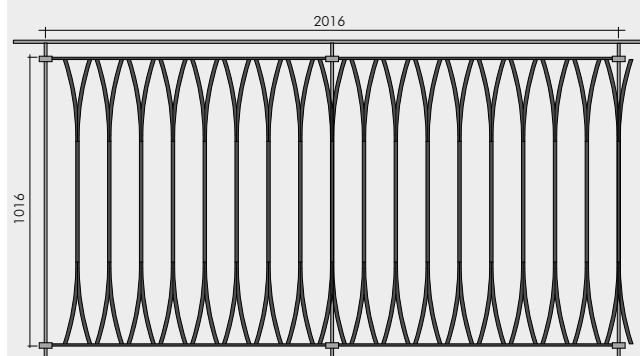
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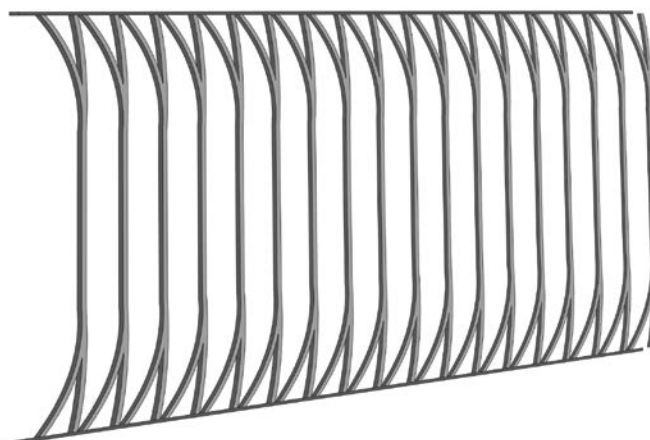
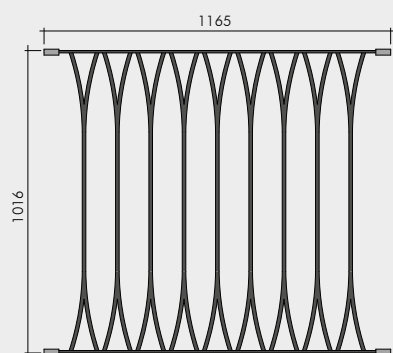
# ORTIGGIA



RAILING



BALCONY



USE



ANCHORING



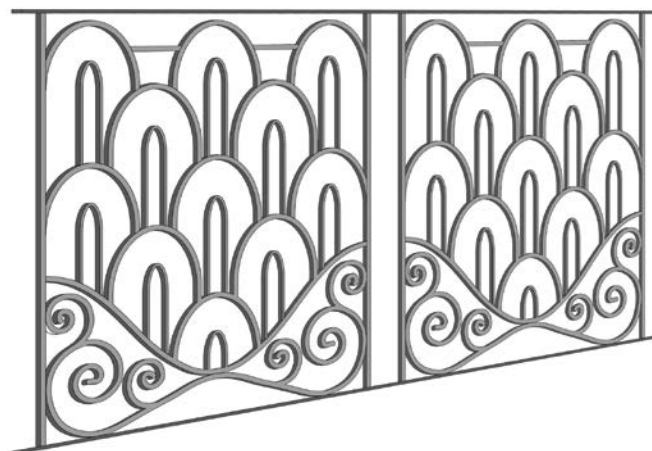
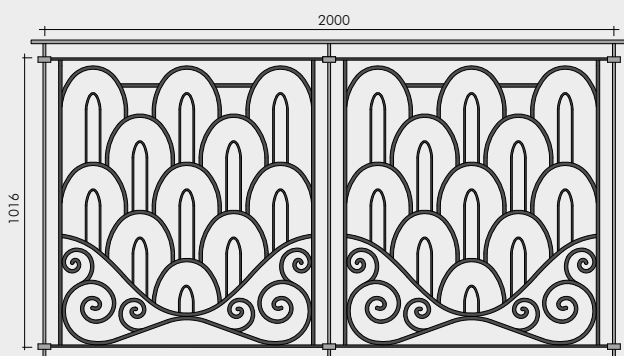
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ORTIGGIA

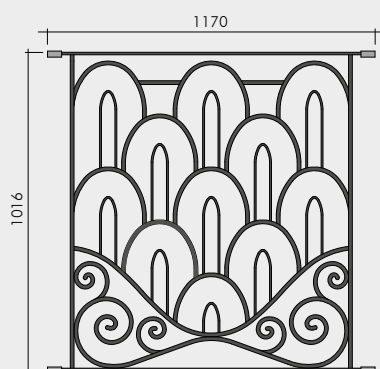
# PORTOFINO



RAILING



BALCONY



USE



ANCHORING



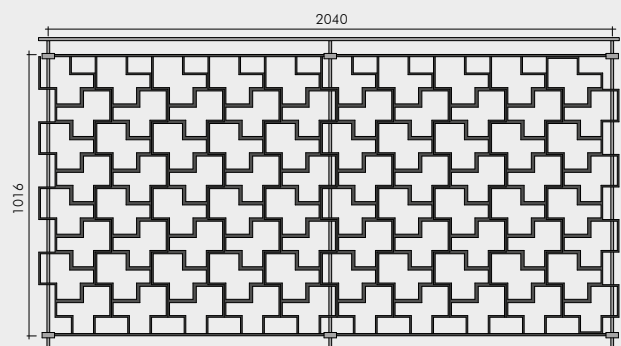
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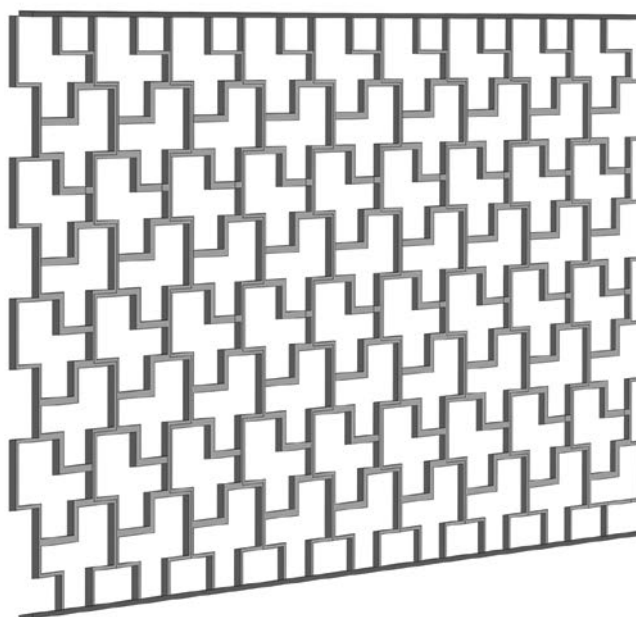
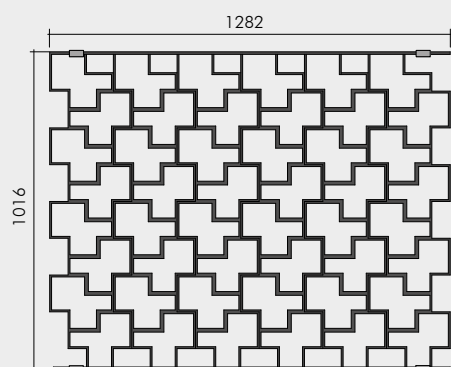
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RAILING



BALCONY



USE



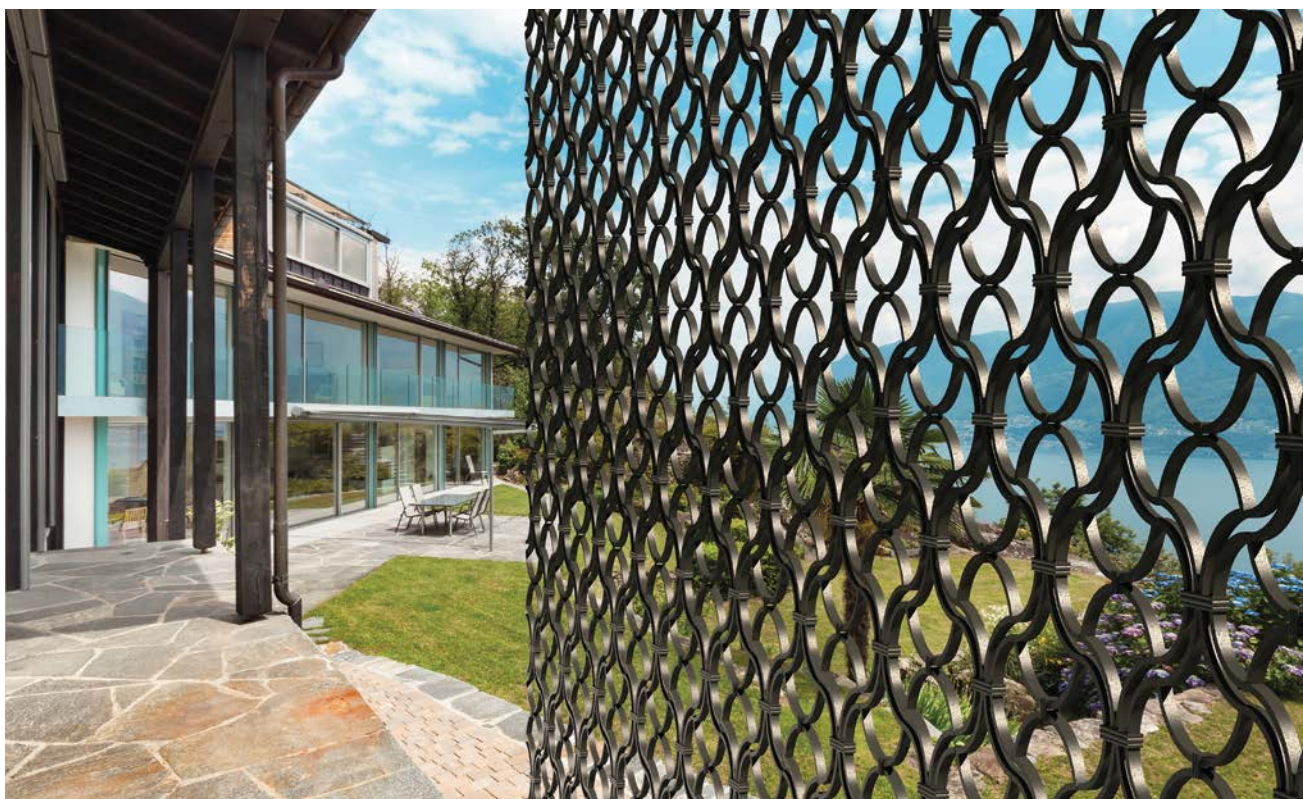
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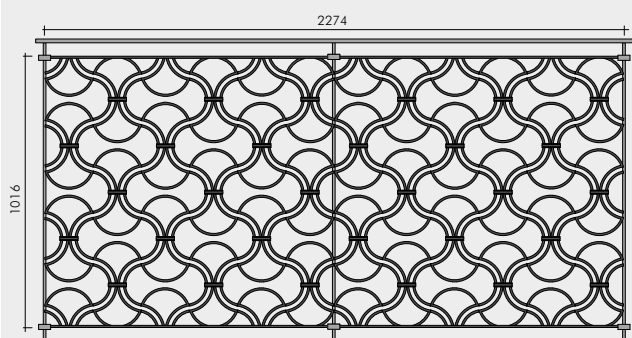
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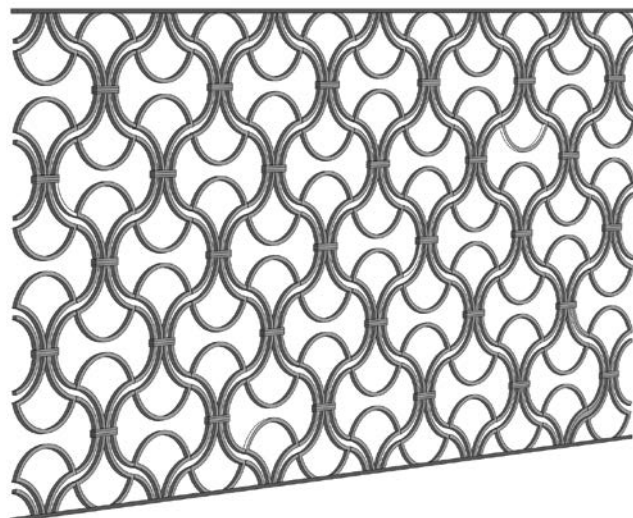
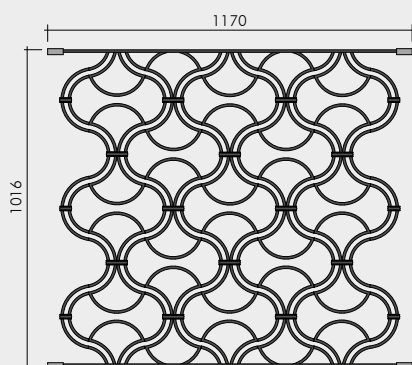




RAILING



BALCONY



USE



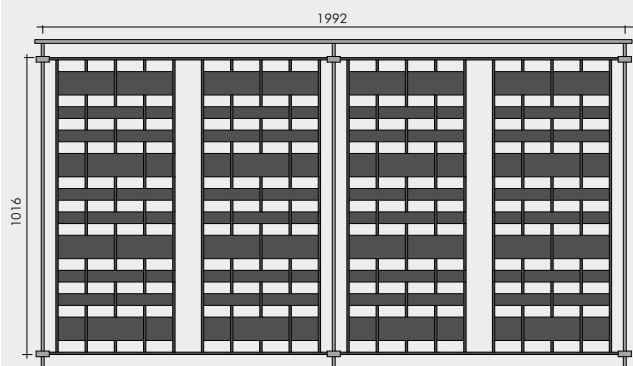
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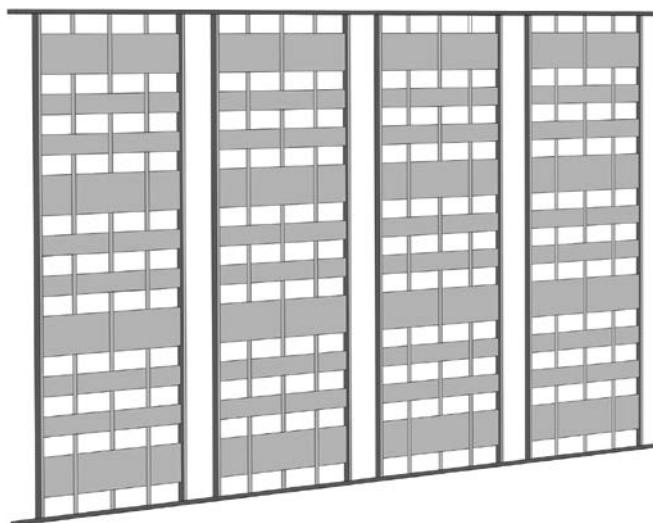
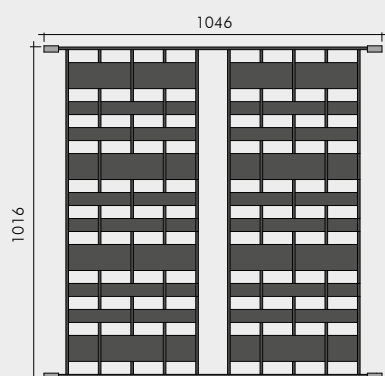
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## RAILING



## BALCONY



USE

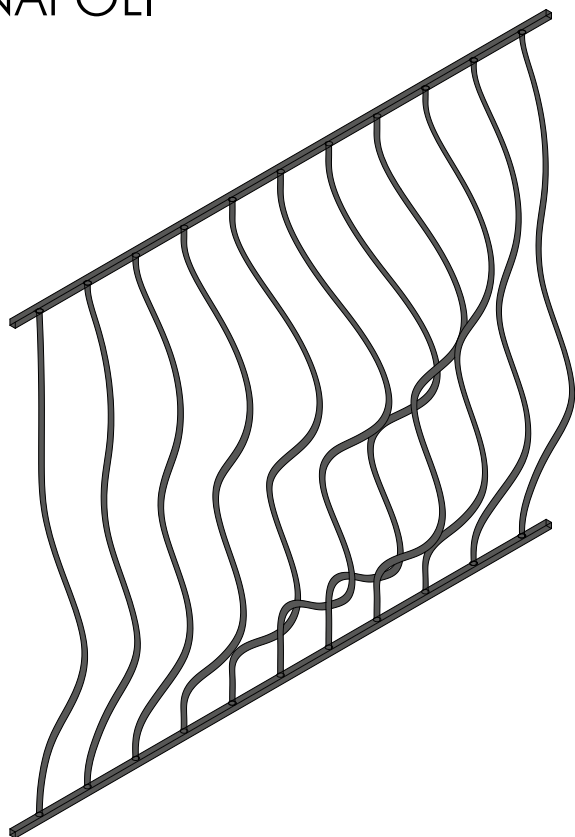


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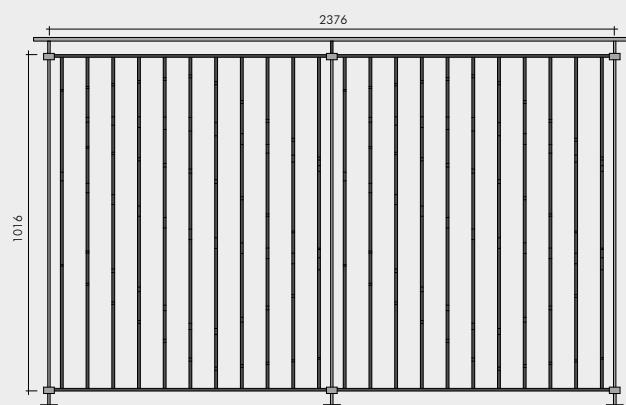


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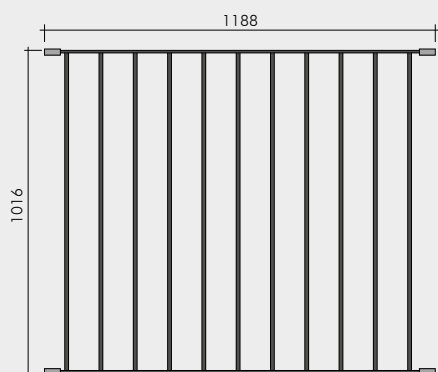




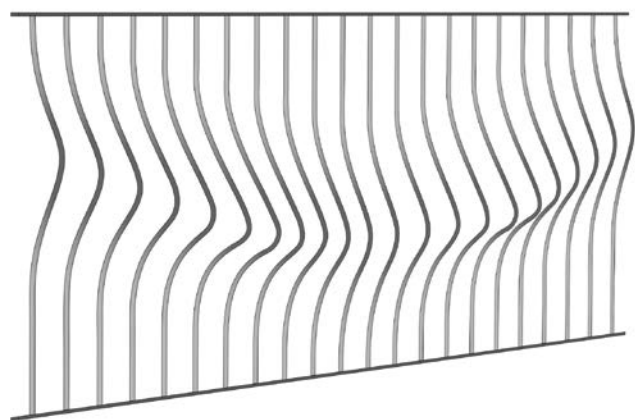
RAILING



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A

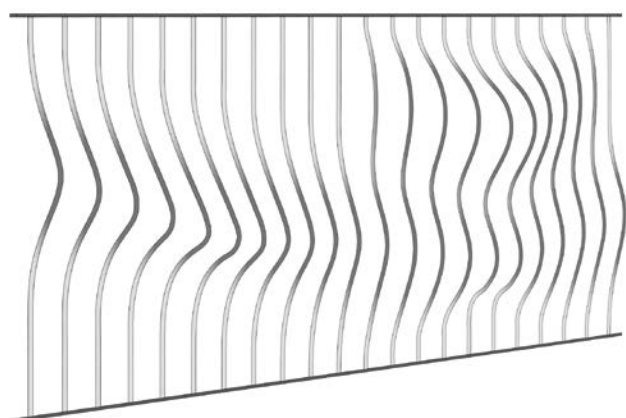


Thanks to the modularity of the elements of our GD system, it is possible to create a unique and personalised design that gives you the possibility to have a parapet without repetition.

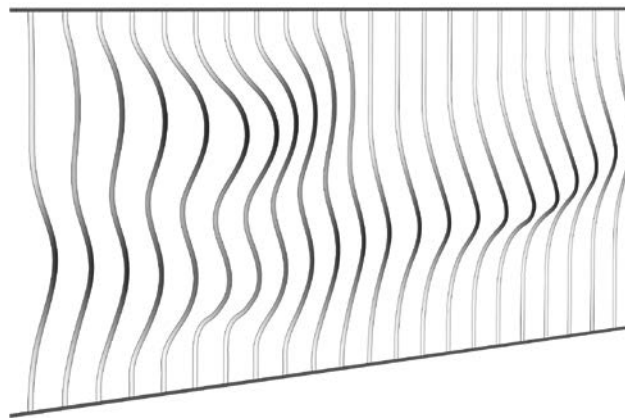




B



C



USE



ANCHORING

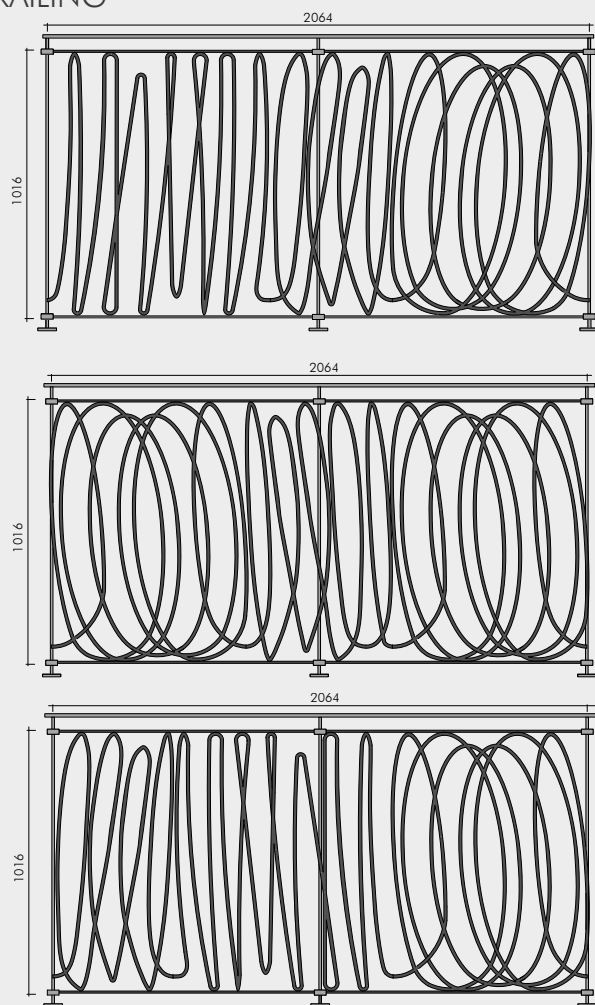


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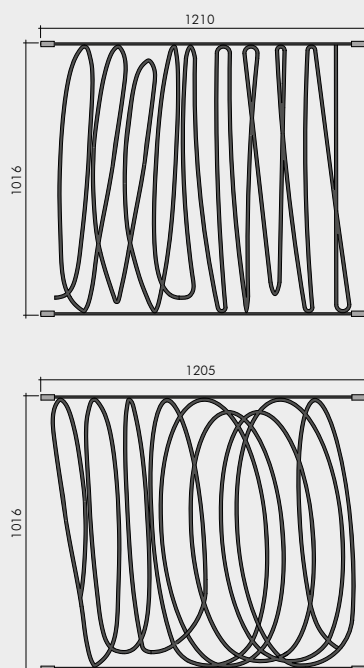
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NAPOLI

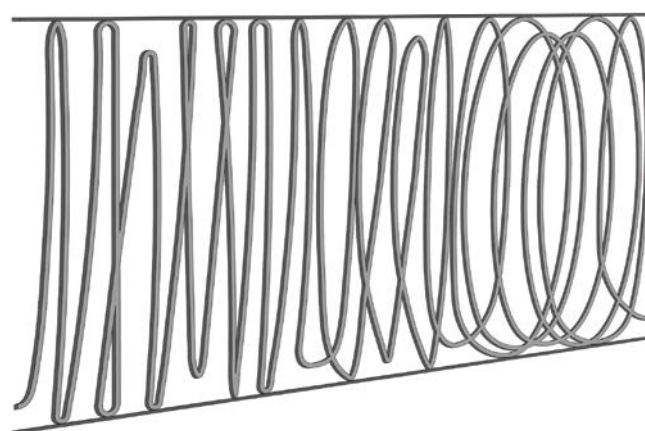
## RAILING



## BALCONY



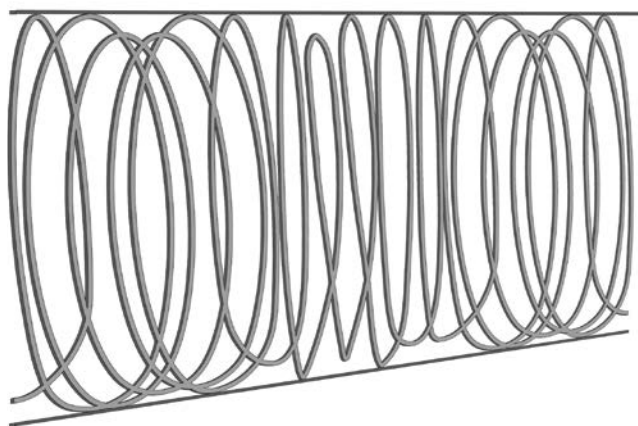
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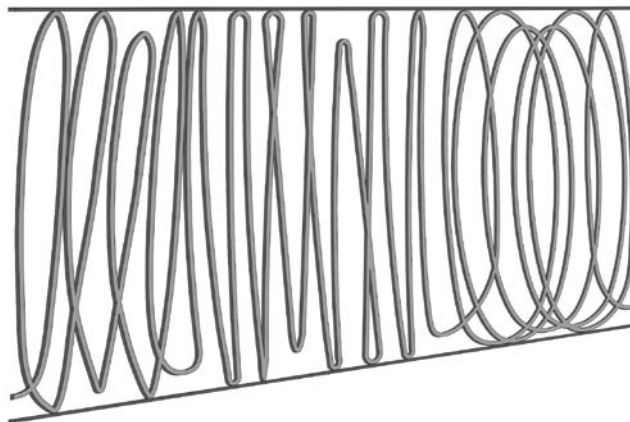




B



C



USE



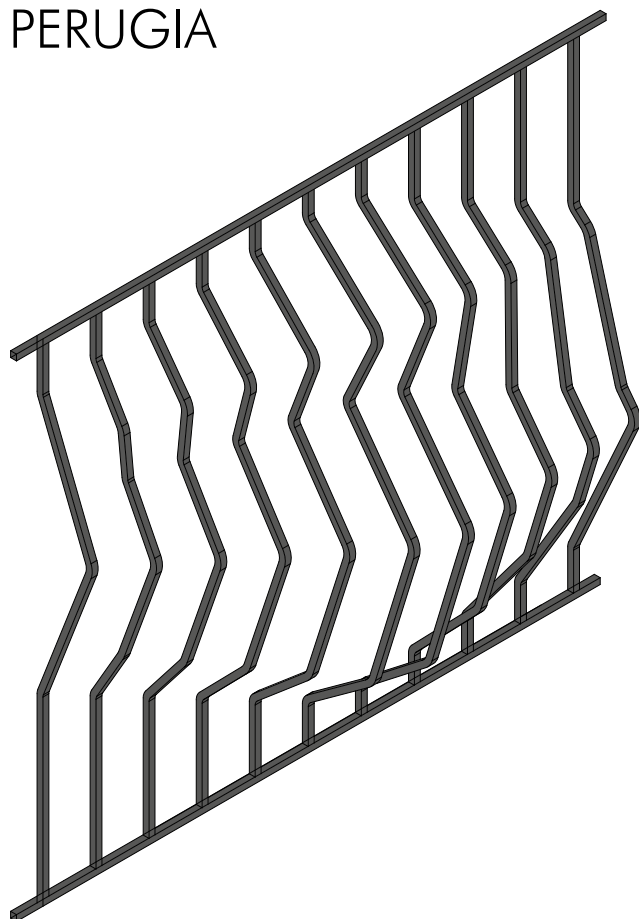
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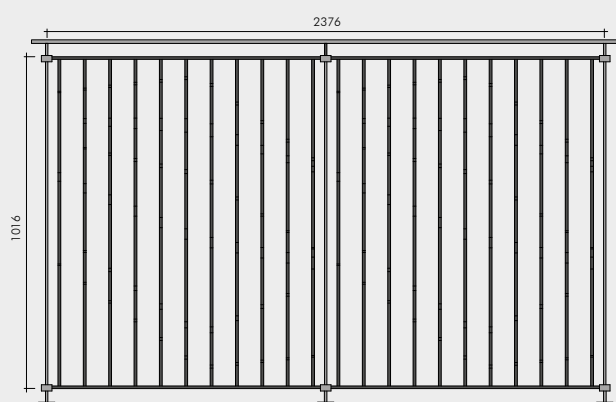
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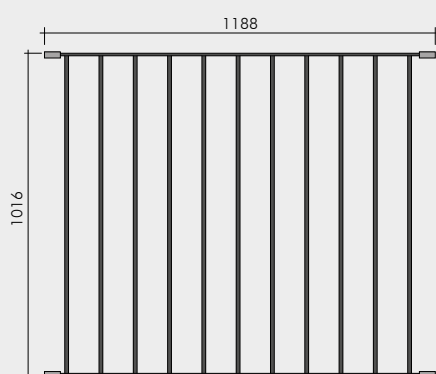
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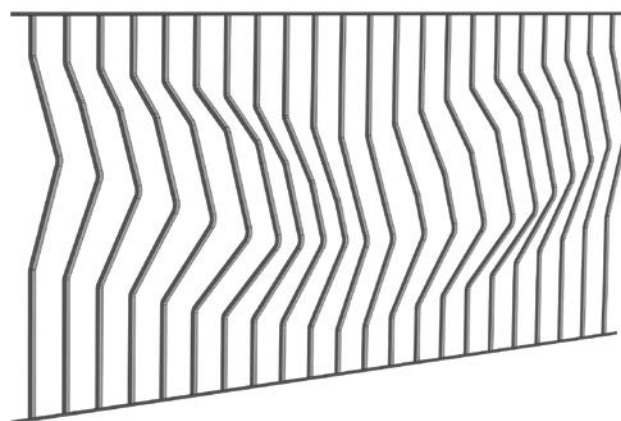
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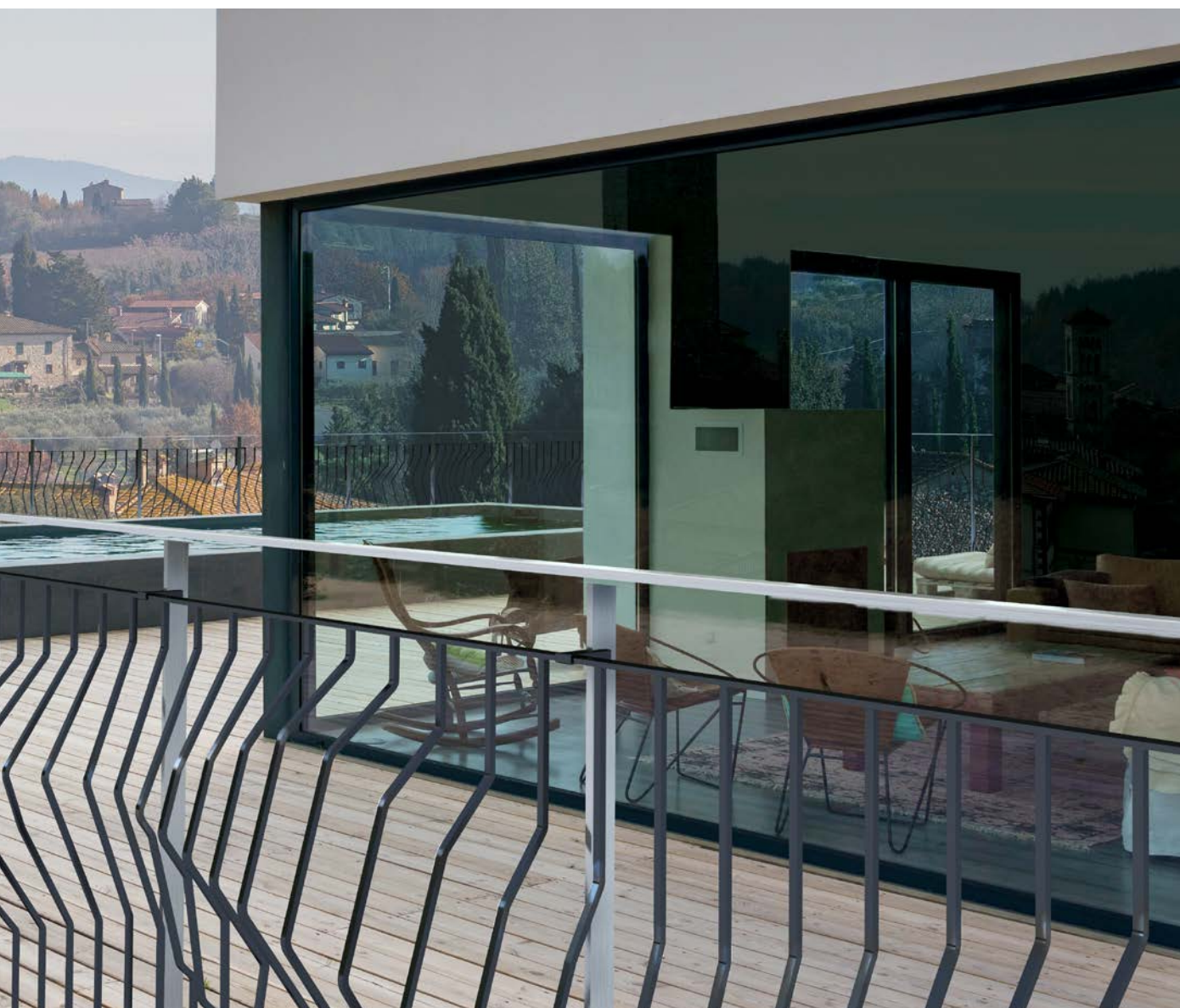
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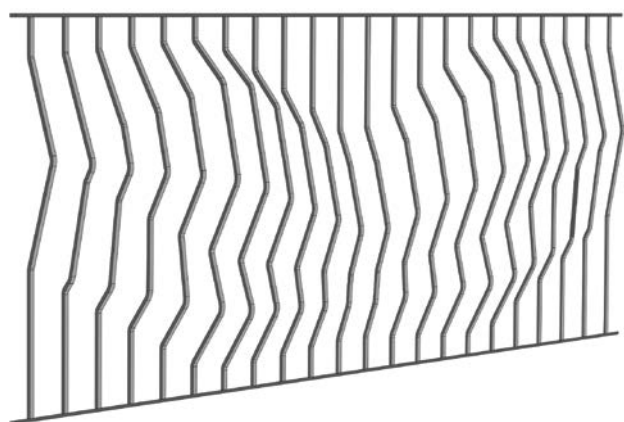
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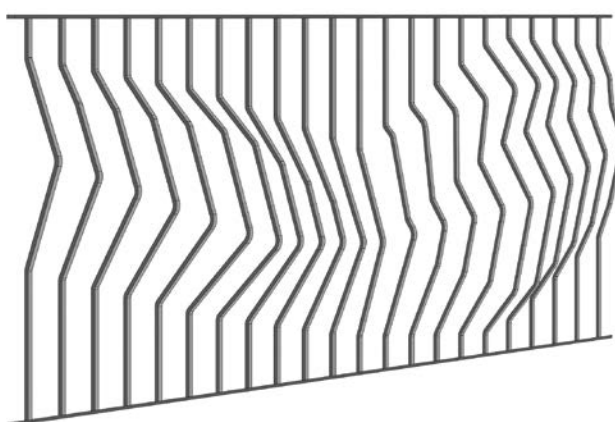
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B



C




USE



ANCHORING

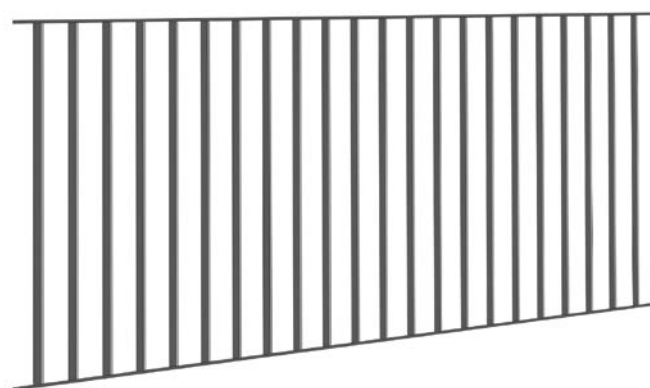
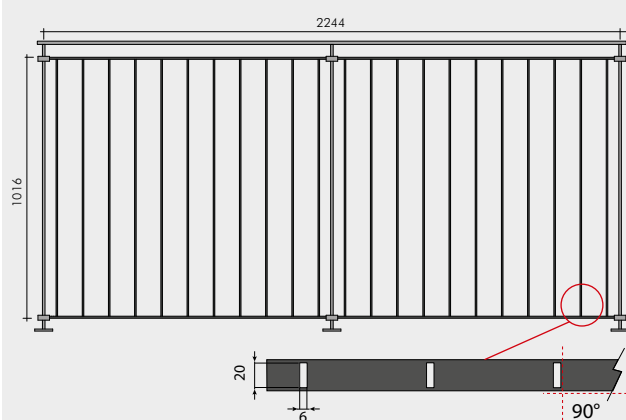


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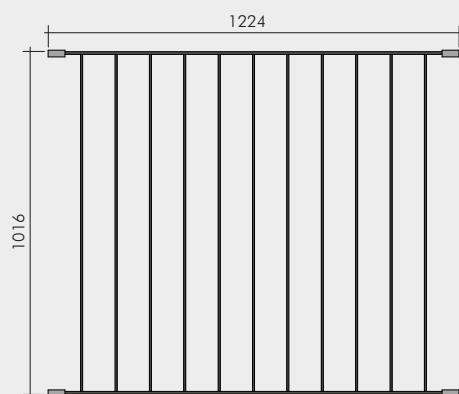




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## BALCONY



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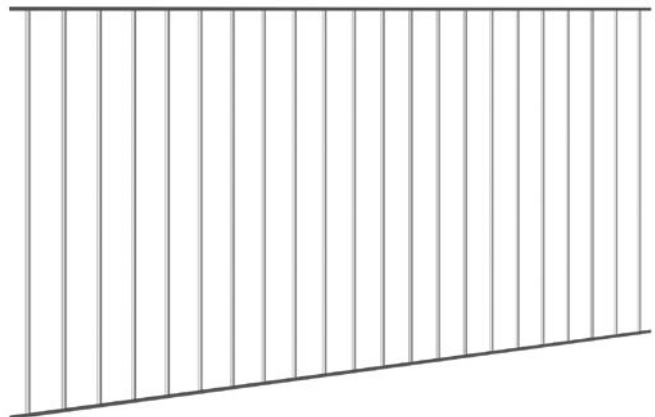
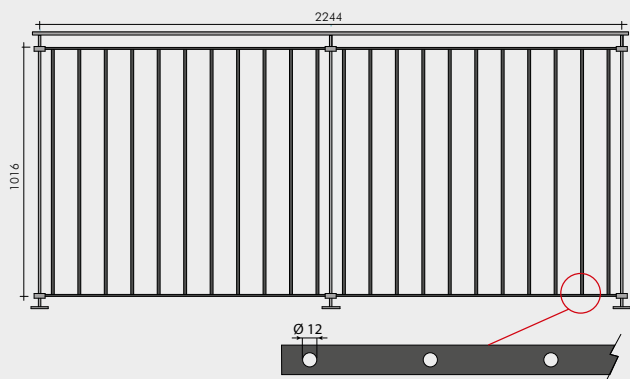


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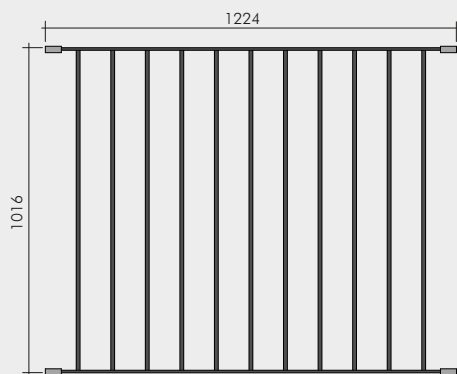




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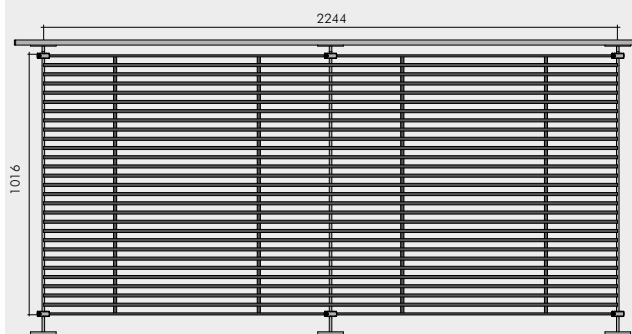
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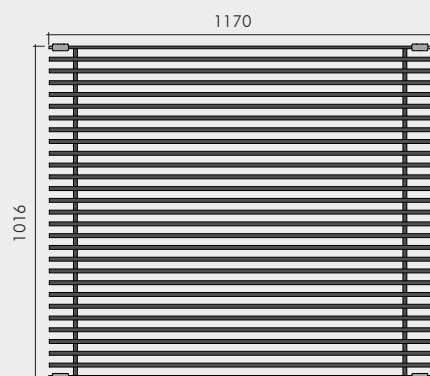
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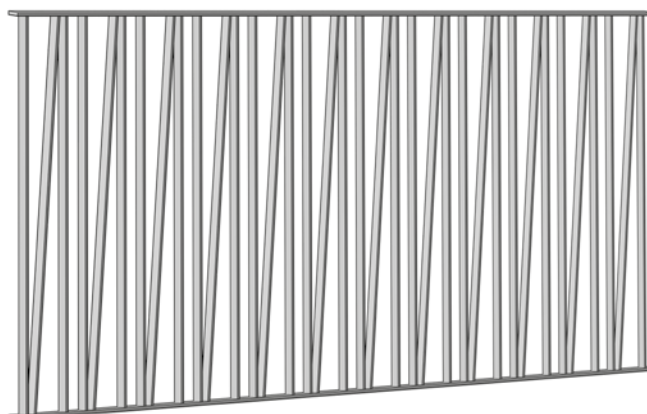
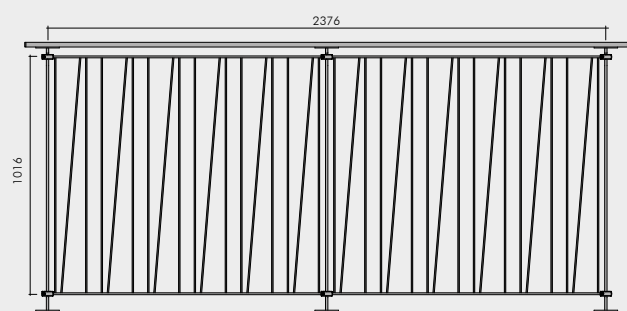


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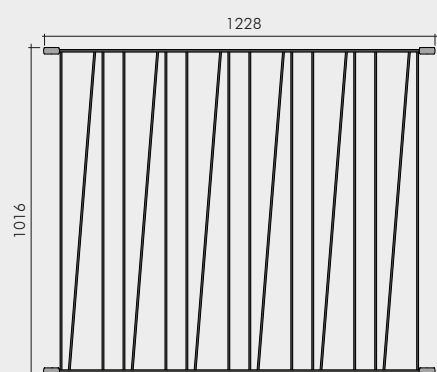




## RAILING



## BALCONY



USE



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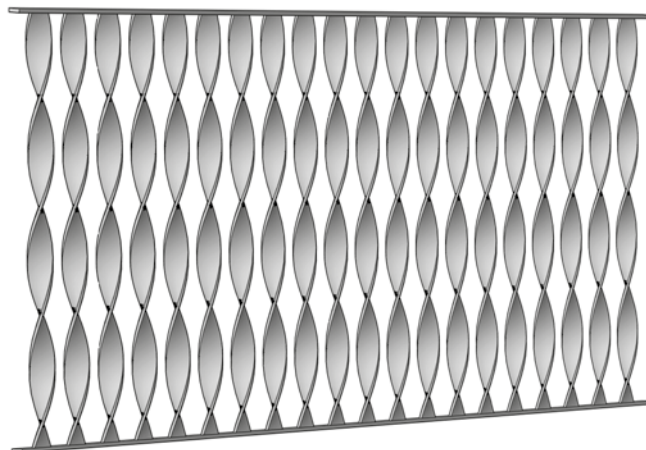
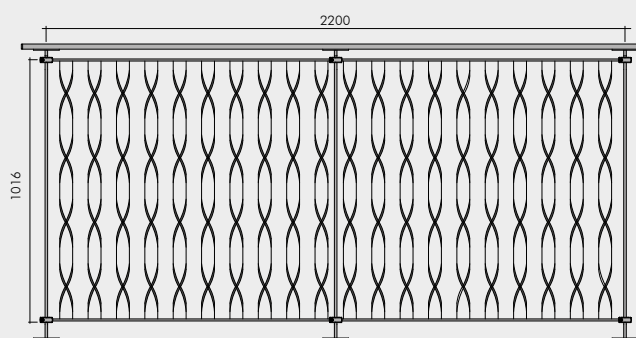


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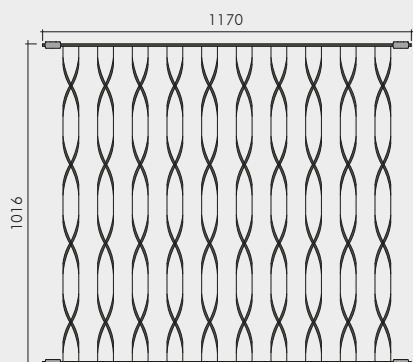




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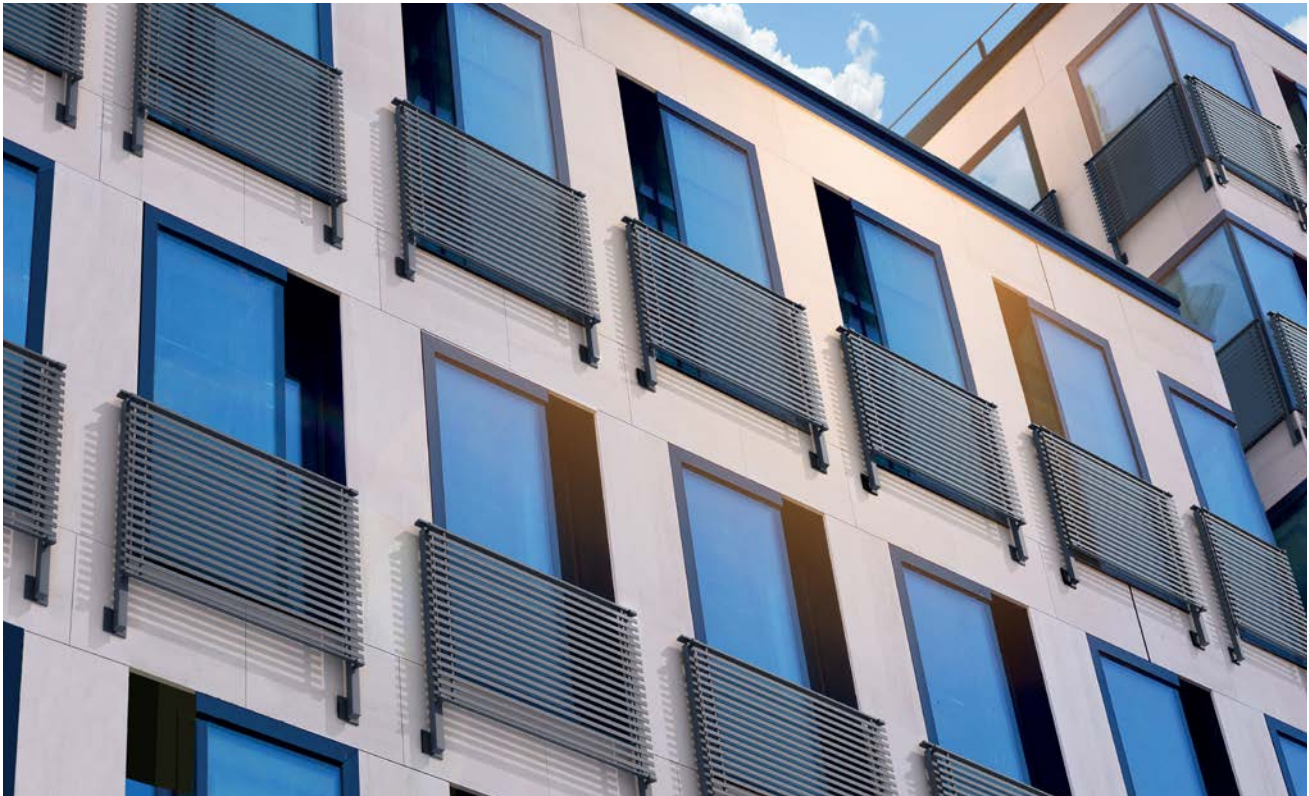
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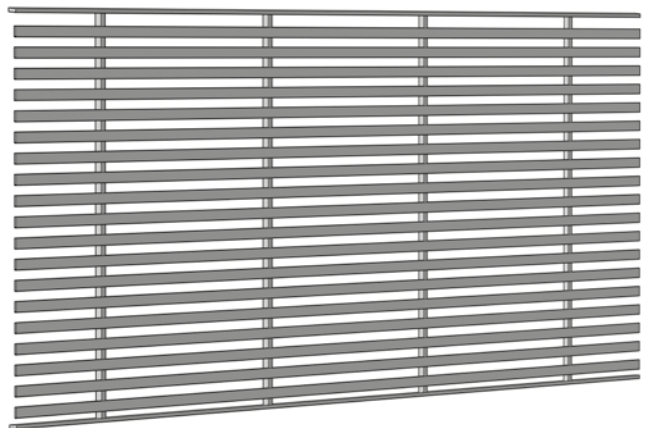
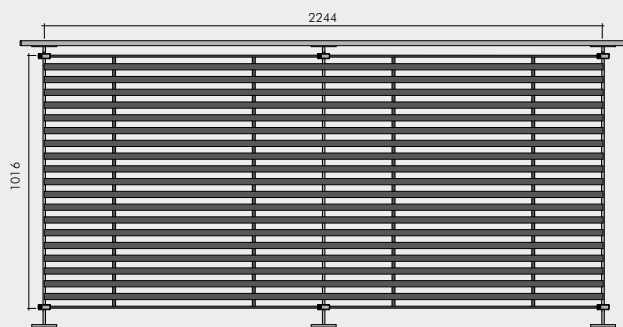
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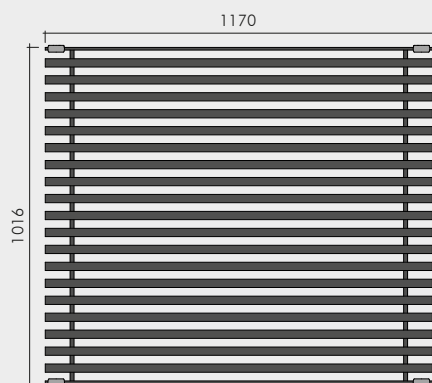
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## RAILING



## BALCONY



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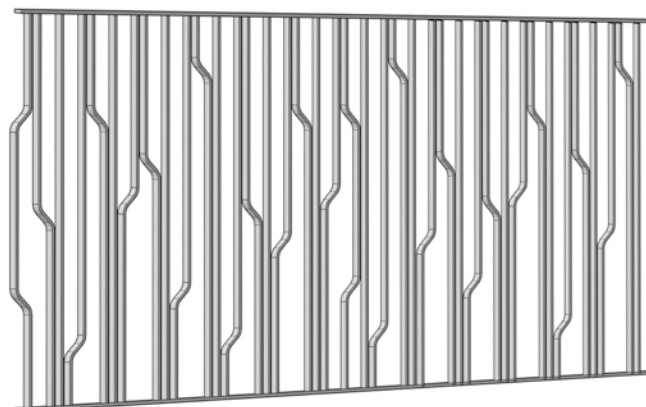
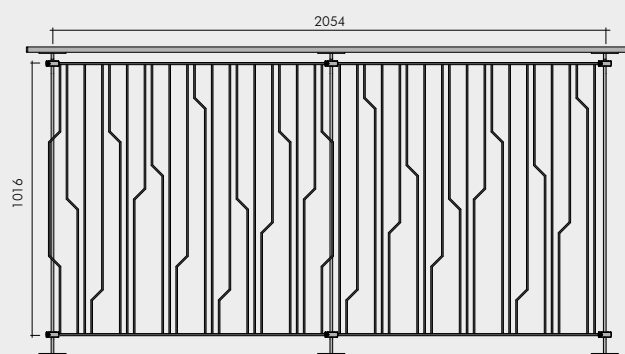


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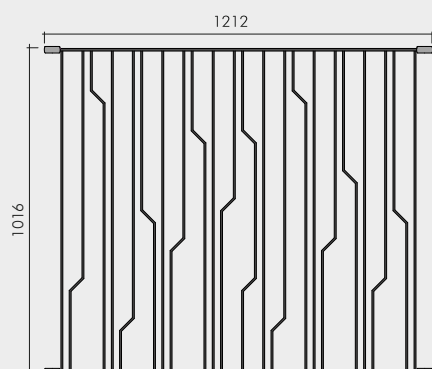




RAILING



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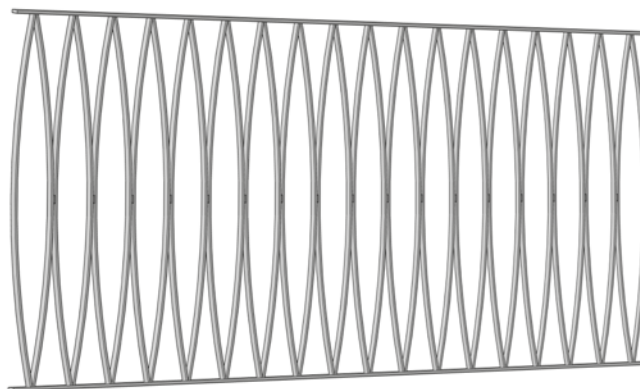
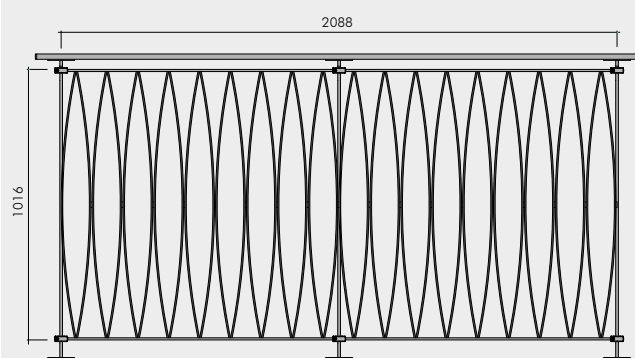
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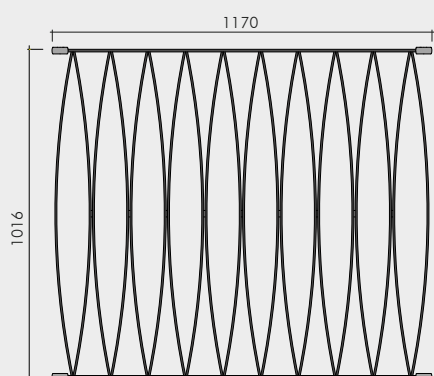
# CORTINA



RAILING



BALCONY



USE



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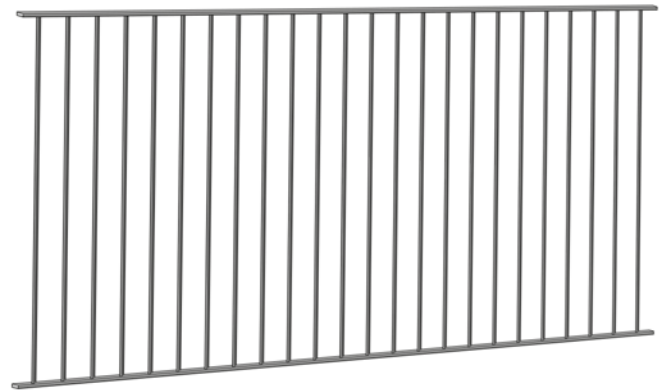
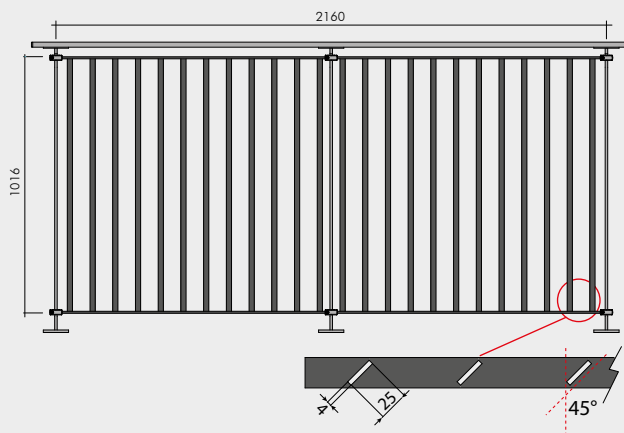


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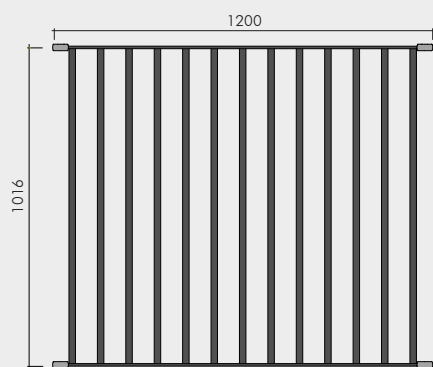
CORTINA



## RAILING



## BALCONY



USE



ANCHORING



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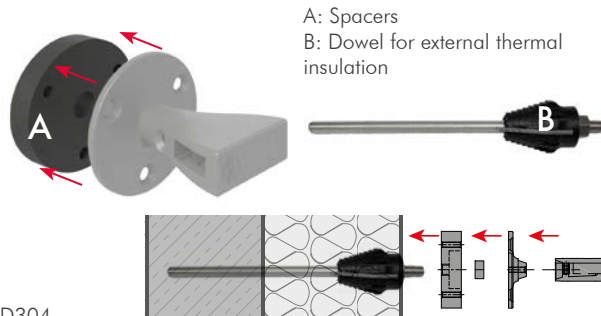
# ACCESSORIES

## ANCHORAGE WITH CLAMP FOR BALCONY



2600000FB

## KIT FOR WALL WITH EXTERNAL THERMAL INSULATION



GD304

## HANDRAIL

60 x 20 x 2mm  
L 6000mm

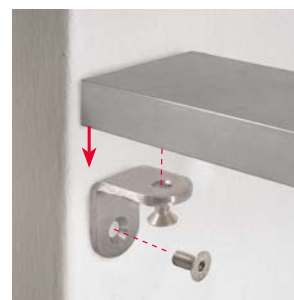


Aluminium  
E10006020

## CORNER FOR WALL HANDRAIL FIXING



E08580



## END CAP

For tube 60 x 20 x 2mm



Aluminium

E1100210

## ANGULAR CONNECTOR

For tube 60 x 20 x 2mm



Aluminium

E1100230

## LINEAR CONNECTOR

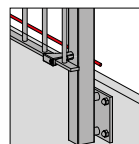


Aluminium

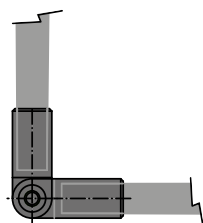
E1100220

## ARTICULATED JOINT

Adjustable



Use only with side attachment

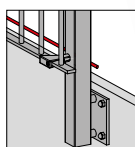


Stainless steel AISI 316

E0170316

## ROUND BAR

Ø 12mm  
L 6000mm



Use only with side attachment



Stainless steel AISI 316

E4851/6000

# ACCESSORIES

## THREADED INSERTS FOR RIVETING TOOL

M5 Thread



Stainless steel AISI 304

M5 Thread

E40591

## SCREW M5 X 20MM DIN 7991 AISI316

M5 x 20mm

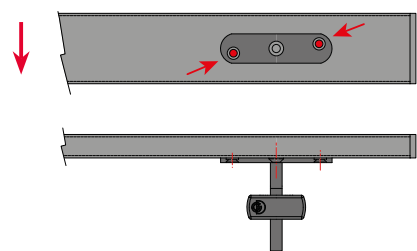


Stainless steel AISI 304

ESM545

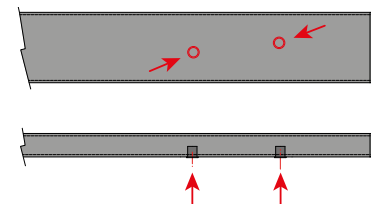
### Mark drilling areas

1



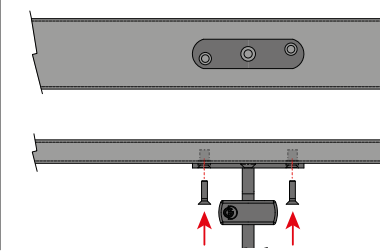
### Insert E40591 using riveting tool

2



### Secure with ESM545

3



## SPRAY ZINC AND LIQUID ZINC

Spray and liquid zinc kit necessary in case of cutting or finishing of the material.



185/9



185/9/B

## PAINTING KIT

Arteferro supplies paints and patinas for finishing your wrought ironwork, both indoors and outdoors.



Paint code upon request



# GUARANTEES

## SANDBLASTING:

Sandblasting is a process used to remove impurities from metals via a jet of sand or other substances with controlled abrasiveness. The jet, with variable pressure, extends the duration of the subsequent painting and the anti-rust treatments.

In this process, materials of different granularity are used, depending on the required result.

## METALLISATION ARCSpray PROCESS:

Our metallisation arcspray involves the application of pure zinc onto a metal surface pre-treated by sandblasting. The zinc wire is inserted into an acetylene flame spray gun which vapourises and deposits as powder. This completely envelopes the treated item in a solid, galvanised coating to the thickness required by our quality standards.

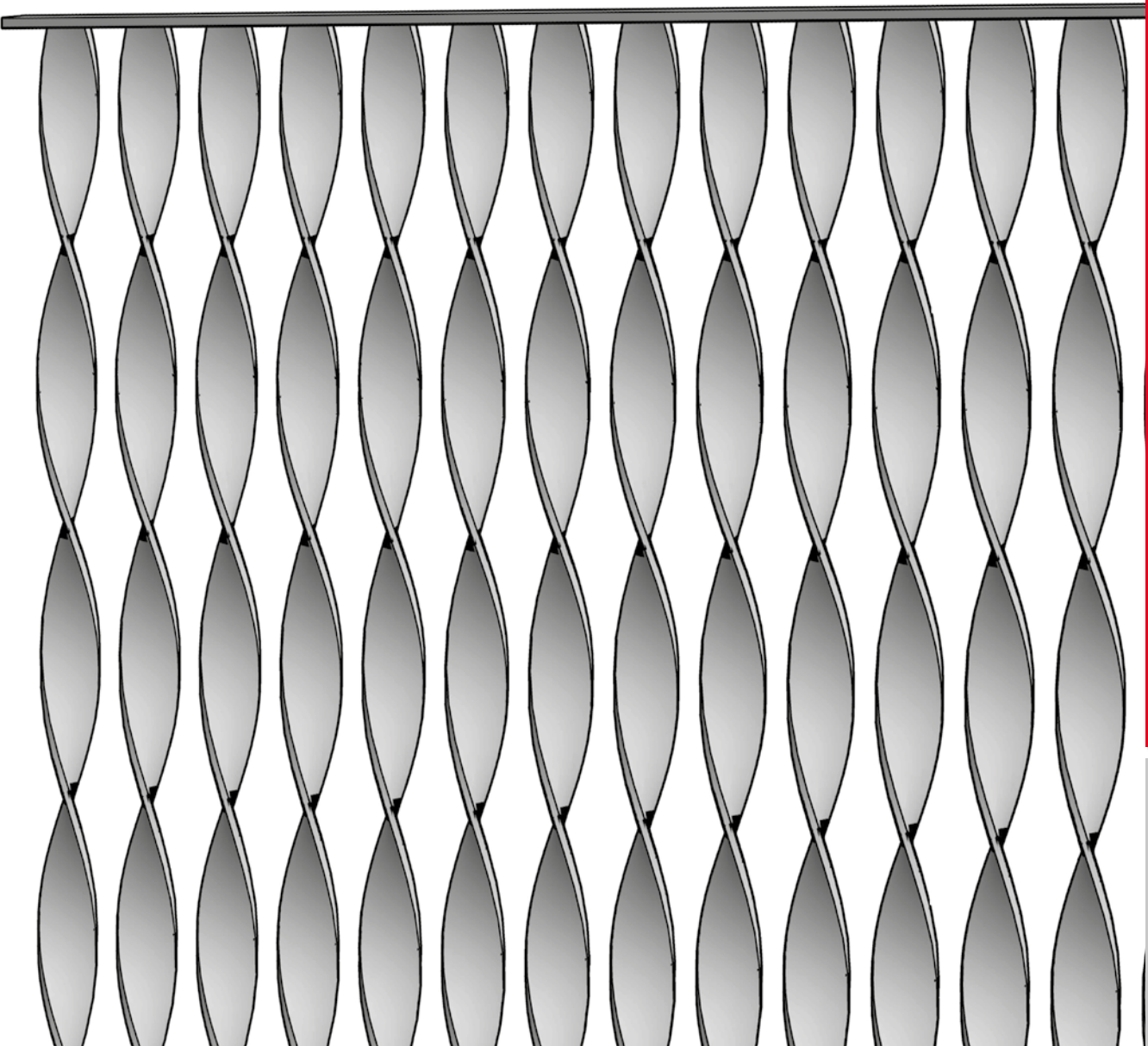
Metallisation is a rapid method for protecting metal structures from corrosion.

Compared to traditional galvanising, metallisation has several advantages: it avoids the deformation associated with the heating of galvanic baths and provides a well-defined and uniform coating thickness. It also acts as an anchoring substrate for subsequent powder coating, significantly enhancing durability. Also, it does not require slag cleaning.

## GUARANTEES:

Sandblasting and hot galvanising enables us to guarantee anti-corrosion through increasing the resistance of the powder coating subsequently applied. The main added value of coatings is in the craftsmanship involved in their application. All processes are carried out manually by skilled technicians and are subject to our strict quality control checks before leaving our premises for delivery to the customer.

The polymerisation of the powders at high temperatures in a static furnace ensures an excellent level of adherence of the paint to the surface.





BY

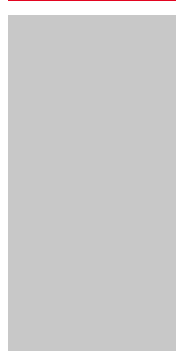
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HANDRAIL  
SYSTEMS



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**To find out more, ask for a quotation or to get advice on any product selection, please contact your local Aalco service centre.**

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