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MEISER, founded in 1956, is a medium-sized family-owned company based in Schmelz-Limbach in the Southwest of Germany.

A steel working company specialising in gratings, profile planking, stairs and stairtreads, galvanising and split materials, the company employs 1,800 people, over 1,200 of them in Germany.

There are two main factories in the Saarland and Saxony plus other subsidiaries in Belgium, France, Hungary, Egypt and Dubai. There are branches and agents worldwide, thus guaranteeing a personal customer service throughout. We have our own galvanising, splitting and cold rolling factories ensuring premium quality.

Over half a century ago the company was founded by Edmund Meiser and to this day, we have remained a family owned and run enterprise with traditional values ensuring long-term planning and reliability. We trust in our flexible and committed workforce with a state-of-the-art and ultra efficient machinery.

To us, business has primarily to do with people. Meiser greatly values personal individual contact with business associates and customers. We will always be at your disposal – evenings and weekends alike. We believe that progress is only feasible when customers are satisfied with our products in the long run. Various unusual projects that we have created together with our customers confirm our strategy.

We are looking forward to welcoming you as our customer. You can be absolutely sure that you can always rely on us.

Edmund, Wolfgang and Ulrich Meiser

PICTURE RIGHT AND TOP LEFT: OELSNITZ SITE PICTURE TOP RIGHT: LIMBACH SITE



MEISER Staircases

Staircases are seen as connectors between at least two different levels. Vertical risers and horizontal treads are connected to steps over a slope.

A staircase serves to provide horizontal and vertical access to buildings in order to negotiate height differences with the least possible exertion of force. Building law and safety matters, user concerns and identification, function and spatial experience, clarity and traffic flow as well as aesthetic concepts are determined very early in the course of a basic design brief.

Ramps with a lesser pitch (<20°) could also be authorized in place of staircases ($20 - 45^{\circ}$). Ramps are particularly suitable in buildings where the circulation routes need to be designed to be accessible for old people and those with disabilities. Other fixed access methods are stepladders (<75°) und cat ladders (75 - 90°). A staircase can normally be considered as a long-term investment. It needs to contribute to the aesthetic appearance of a space and of course be simultaneously functional and in accordance with the basic guide lines (DIN, GUV, requirements etc.). The surface treatments must at least meet the requirements at its installation location.

Staircases are divided into systems that are either necessary or unnecessary in accordance with building law, whereby a further subdivision differentiates between staircases and winding staircases.

We plan, draw and realize your idea for an aesthetically pleasing and functional staircase together with you, our customer. Our comprehensive range of products extends from a fire escape on the outside of a building to various industrial staircases and elegant living room staircases.

> SPIRAL STAIRCASE BANISTER TYPE C7 WITH V2A HAND RAIL AND PERFORATED SHEET METAL INFILL GRATING FLOORING MW 30 X 30 MM





MEISER FIRE ESCAPES/FIRE EXIT STAIRS

SPIRAL STAIRCASE BANISTER TYPE A1 GRATING FLOORING MW 30 X 30 MM ACCESS SECURITY WITH INFILL IN ROUND 12 MM AND PERFORATED METAL







Physical structures must be built in such a way that outbreaks of fire and the spreading of fire and smoke are prevented and that it is possible, in the event of fire, to rescue people and animals and to carry out effective fire-fighting operations.

All usage units with habitable rooms on each level must be accessible via at least two escape routes that are independent from one another. The first escape route must lead via at least one required staircase in usage units that are not at ground level. The second escape route can be a place that is accessible by the fire brigade's rescue equipment or a further, required staircase.

Fire exit stairs and fire ladders are alternative escape routes. They cannot be planned as necessary, vertical escape routes from the first. The 'Working Paper on Escape Routes' describes the individual requirements. Fire exit stairs in the form of an open, steel staircase can also serve as access routes for the fire brigade.

A second escape route via fire escapes and fire stairs is obligatory in many buildings to ensure that safe escape is possible in an emergency. The fire stairs could be the last resort in the event of fire. The second escape route should also enable access by the fire brigade.

Both clear legal provisions and the cooperation of customers and planners are responsible for compliance to these regulations. A steel staircase that is incorrectly installed or insufficiently maintained is just as insupportable as the complete failure to provide a required escape route.

With MEISER fire escapes you can be sure that you are well-equipped for any emergency.

SPIRAL STAIRCASE BANISTER TYPE C2 GRATING FLOORING MW 30 X 30 MM 4 ADDITIONAL SUPPORTS AND A SIMPLE ROOF STRUCTURE





Spiral Staircases

The spiral staircase represents a special case among all the forms of circular stairs and requires the least space. Its main characteristic is the load-bearing column in the centre.

Spiral staircases are often only mentioned as an aside in standard literature as there are no concrete provisions that regulate them.

Because of the special form of the steps we need to differentiate in principle between the clear tread width (distance between the central column and the inside edge of the banister hand rail) and the usable tread width (from 100 mm run, see DIN 18065) in spiral staircases.

Another special characteristic of spiral staircases is the shifting of the walking area from the centre to the outside at approx. 0.5 - 0.7 of the staircase radius.

The smallest outer diameter of a staircase should not be less than 1,300 mm as this only allows severely limited use. A usable tread width of 1,000 mm can be achieved with an external diameter or approx. 2,900 mm.

The standard spiral staircase currently produced by MEISER has a central column with a corresponding step sleeve column. This means that we are in a position to realise a wide range of versions and customer requirements. In the basic form, four column pairs are used which can be selected according to the diameter and height of the staircase and in line with static requirements.

In order to avoid sleeve movement between the individual sleeves in our 'push-fit system' we also offer steel spacer rings as turned parts. Another possibility is a column that is split by storey with welded plates to screw on the individual steps. Step connections are achieved using a pipe sleeve and a special screw. Banister shafts are mounted to every second step using a screw connector.

One critical issue is the positioning of access landings above one another with a height between floors of approx. 4,000 mm. It is not possible to select a safe ratio of rise to run for every diameter in order to guarantee a minimum passage height of 2,000 mm.

The handrail on the central column and access security are supplementary measures that ensure safe use and protection from unauthorised access.

It is our job to propose the optimum solution to you. You can place your trust in our ability and our expertise.

SPIRAL STAIRCASE BANISTER TYPE B1 GRATINGS MW 30 X 30 MM SCREWED STEPS WITH PLATES DOOR AT STAIRCASE ENTRANCE



Spiral Staircases

Special requests from architects always present us with the challenge of realising the request in accordance with valid regulations. We are also a strong partner in the manufacture of complex welded structures.

MEISER holds the manufacturing qualification in the welding of steel structures in accordance with DIN 18800 Part 7; 2002-09 Class C.

Taking into account experience gained from accidents, the step measurement formula is applicable from a safety perspective if it leads to rises of between 140 and 190 mm and runs between 320 and 260 mm. The relative size of the rise and run take into account the average persons step measurement.

The following is valid for a staircase that is easy to walk on:

2x (s) rise + (a) run = 630 ± 30 mm

The angle of climb should be between 30° and 45° .

A rest landing should be included after a maximum of 18 steps (per flight of stairs).

Grating flooring on spiral staircases is fitted with anti-skid protection as standard without a non-slip front edge, and welded in a surrounding frame in flat-rolled steel (outer edges are straight and of uniform height). An additional welded, non-slip front edge forms the connection to the straight grating step in accordance with DIN 24531. It improves safety during the use of spiral staircases, but is not officially required.

Not every building is suited to the mounting of a staircase system at all points. Our design engineers and structural engineers will, however, always provide you with a special solution to connect the staircase to the building safely.

The connection to the building is an important element in the overall structural concept. We always work with our customers to find the best solution; a solution that fulfils all requirements so that it is simultaneously architecturally justifiable and statically verifiable.

SPIRAL STAIRCASE BANISTER TYPE A1 GRATING FLOORING MW 30 X 30 MM ADDITIONAL SUPPORTS FOR THE STABILITY OF THE STAIRCASE AND THE LANDING











Straight Staircases

It is not possible to install a spiral staircase in all buildings. Different building law requirements in the various federal states often mean that straight staircases are prescribed and installed as rescue stairs / fire stairs.

Other possible arguments in favour of straight staircases are the necessity of enabling large numbers of people to escape and using the given advantages of staircase geometry.

It is, however, also often architectural reasons that are decisive when manufacturing a staircase tower with two or four supports. If gratings are used to brace the central supports, they give the impression of a stabilising wall and give the staircase its own character.

STRAIGHT STAIRCASE BANISTER TYPE C4 GRATING FLOORING MW 30 X 30 MM TWO SUPPORTS IN THE STAIR WELL INFILLED WITH GRATING FLOORING





Straight Staircase with two Central Supports

The use of individual supports in the stairwell gives the entire structure a special touch, whereby safe application of force into the building must be given. The roles are clearly defined here: the building holds the staircase – not the other way around.

It is possible to improve the corrosion-resistance of the surface of individual staircase components by applying additional coatings to the galvanisation of all parts of the staircase (please test necessity on flooring elements). If the flooring elements are included in the coating process please note that mechanical load (frequent use) needs to be excluded from the guarantee. The decision concerning execution lies solely with the customer. This process also gives you the opportunity of integrating the staircase even better into the colour concept of the building as a whole.

The realisation of this kind of project is a challenge that we are always happy to take on.

STRAIGHT STAIRCASE BANISTER TYPE A1 STEP FLOORING FORMING TWO SUPPORT IN THE STAIR WELL COLOUR COATING





Stair Tower with four Supports

The compact steel structure of straight staircases often fascinates the observer. Stair widths of 1,250 to 1,500 mm or even more often need to be realised in larger buildings such as residential homes, hotels and hospitals where large quantities of people may need to be rescued. The higher structural loads usually mean that the supporting structure design needs to be stronger.

Various federal states also require that an additional children's hand rail is installed at a height of 650 to 750 mm along the walking line in this kind of building to enable children to use the escape route safely too.





Winding Staircases

Winding staircases in the form of evenly winding stairs are often used in public areas as a usable walking width is easy to achieve in this form.

This single stringer staircase, designed by architects as a winding staircase, was very demanding for the structural engineers and design engineers in the planning phase and for our skilled workers in the realisation of the theoretical calculations. The light appearance of the staircase was consciously chosen in order to emphasise the curving design, but also demonstrates the different interpretations of existing building law requirements in the individual federal states. Form and elegance have conquered over dry regulations.

WINDING STAIRCASE SPECIAL BANISTER WITH V2A HAND RAIL FLOORING IN TEXTURED SHEET METAL FOLDED AS L COLOUR COATED





GERADE TREPPE GELÄNDER TYP B3/C7 LAUFBELAG AUS TRÄNENBLECH ALS WANNE GERUNDETE ZWISCHENPODESTE	GEKANTET	

MEISER INDUSTRIAL/MAINTENANCE STAIRCASES

STRAIGHT STAIRCASE BANISTER TYPE C1 GRATING FLOORING MW 30 X 30 MM







MEISER Industrial and Maintenance Staircases

Industrial staircases need to withstand the highest demands every day. They have to reliably fulfil their function at all times in their relevant area of application, whether in the food industry, heavy industry, in a warehouse, a sewage plant or as staircases and walkways in production-relevant areas. It goes without saying that all safety aspects prescribed by the relevant trade associations must also be taken into account.

Industrial staircases can be either indoors or outdoors, can vary as a straight staircase, a walkway or a spiral staircase over numerous storeys. No maintenance work must ever become necessary over the course of their entire lifespan.

Given the limited space that is available in technical systems, it is also possible to find the solution for a technically necessary climb in a combination of spiral and straight staircases. We construct specialist steel structures for the stabilisation of the staircase systems in accordance with requirements and can be included in the scope of delivery of the staircase system.

SPIRAL STAIRCASE COMBINED WITH A STRAIGHT STAIRCASE BANISTER TYPE C1 GRATING FLOORING MW 30 X 30 MM ADDITIONAL SUPPORT STRUCTURE









Spiral Staircases

We are increasingly seeing the spiral staircase take over from the stepladder as a safe, technical climbing means in many sectors. The customer and supplier need to apply their creativity and flexibility here too in order to find the ideal solution for each individual case.

Delivery in assembled form saves assembly time on the building site and can help to create short-term access to other assembly levels when construction programme deadlines are tight. In order to prevent complex special transportation the assembled staircases should not have a diameter greater than the maximum width and usable length of a lorry.







SPIRAL STAIRCASE BANISTER TYPE C 2 GRATING FLOORING MW 30 X 30 MM ADDITIONAL SUPPORT STRUCTURE Maintenance of installed technical aggregates is playing an increasingly important role because of the increasing complexity of technical structures. The spiral staircase represents an optimal solution for overcoming great heights, whereby the provisions in DIN EN ISO 14122-3 must be observed.

Parapet wall transition and access security could be individual solutions and are practical combinations with MEISER staircases.



SPIRAL STAIRCASE BANISTER TYPE C1 GRATING FLOORING MW 30 X 30 MM WITH PARAPET WALL TRANSITIONS

















Straight Staircases

The safety aspect is constantly gaining in importance in the construction of new technical systems. The paths of maintenance staircases must be designed in such a way that not only the assembly, but also the transportation of technical equipment can be carried out in a safe manner.

Stability requirements vary depending on the size and type of staircase system. In connection with the built structure it can be designed as a simple, independent unit with solid and compact support structures.



STRAIGHT STAIRCASE BANISTER TYPE C1 GRATING FLOORING MW 30 X 30 MM FREE-STANDING SUPPORT STRUCTURE

Tank Staircases

Tank staircases are a special form of stairs on tank systems. They are used exclusively in the industrial system sector and are delivered to the building site as individual parts.

The tread plates or step bearings are attached to the wall of the tank (welded or bolted). Then the small, manageable components like step and landing elements, railing shafts and handrail parts are screwed on and connected. As welding work is necessary it is essential that there is a subsequent preservation of all weld points on the structure.





TANK STAIRCASE SPECIAL BANISTER IN FLAT-ROLLED STEEL GRATING FLOORING SP 34 X 38 MM STEP HOLDER WELDED ONTO TANK











Winding Staircase

A winding staircase in the form of a two-string staircase is the superior alternative to a tank staircase. Larger structural elements or entire modules can be delivered to the building site pre-fabricated. It is attached to the tank via various brackets (included in the scope of delivery if so agreed) and according to structural necessity (e.g. in the vicinity of the landings).

It is true that this kind of winding staircase is more complex to manufacture but they are usually easier to install.

In the event of an early order, it is possible to determine the connection points during the planning phase in cooperation with the tank manufacturer. This has the advantage that the installation of the connection elements can take place during the manufacture of the tank, thus completely removing the need for any welding work on the building site.





MEISER INDOOR/BALCONY STAIRCASES

SPIRAL STAICASES SPECIAL BANISTERS LASERED STAINLESS STEEL SHEET FLOORING COLOUR COATED







MEISER Indoor and Balcony Staircases

It is important to not only look at aesthetic aspects and the available space when choosing the right staircase form, but also its intended purpose. That is to say whether the staircase is to lead into a living room, secondary room, cellar or attic.

Thus spiral staircases are being used increasingly to reduce the distance between balcony and garden. For many years this path led first through the living room or hallway. Now an elegant spiral staircase can create a direct connection.

Subsequent installation of a spiral staircase with a diameter of approximately 1,600 mm or more is easily feasible for most steel or wood balconies.





Spiral Staircase

Modern architecture is increasingly promoting attractive and spacesaving staircase options, for example for apartments over two storeys or for attic renovations.

A spiral staircase is the ideal solution with its relatively simple, spacesaving structure and striking appearance.

We design and manufacture each staircase specifically to the customer's requirements and the individual application. You can choose to have clockwise or anti-clockwise spirals with the necessary radius and with a sunken or surface base plate on the central column – whatever you desire.

MEISER is happy to provide advice. We can decide together which staircase type is most suitable for your floor plan and ceiling structure.

SPIRAL STAIRCASE BANISTER TYPE C4 WITH V2A-HANDRAIL FLOORING IN TEXTURED SHEET METAL FOLDED AS TROUGH WITH SPACER RINGS COLOUR COATED





Straight Staircases

The straight staircase is an alternative to a traditional wooden or concrete stairway. It can be used to create a simple, fast stair solution that is also a decorative element in a room. It is possible to mix various materials in this kind of structure to create a pleasant combination of wood and steel, while a stainless steel handrail provides the perfect finishing touch to the banister.





Winding Staircase

In modern steel and glass buildings, customers often request that the interior staircases also include these same materials. Thanks to its plasticity, steel offers an excellent basis for the manufacture of even very complex details. The result is a winding staircase that provides the observer with ever-changing impressions from many different angles.

The use of winding staircases can create elegant connections between two levels in large rooms and fulfil more than just the purpose of a staircase. Architect's ideas and the individual manufacture of a staircase mean that we succeed again and again in creating an original eye-catcher for your room.











SPIRAL STAIRCASE BANISTER TYPE B1 GRATING FLOORING MW 30 X 10 MM CENTRAL COLUMN WITH PLATES TO SCREW ON THE TREADS HANDRAIL ON THE CENTRAL COLUMN SPECIAL STEEL STRUCTURE

Special Structure

By special structures we mean staircases that do not initially fit into one of our defined categories. In the end they are usually also spiral staircases or straight staircases but they do not always fulfil the purpose of a normal fire escape or industrial staircase.

Special structures, such as lookout towers for example, are always a special case, as with this project, where interaction is required between the staircase and the steel/wood structure. Close cooperation between the staircase manufacturer, third party trades and planners is essential for the success of the structure as a whole.

Contact us with your specific requirements and place your trust in our strengths in the sectors of consultancy, planning and execution.





Special Structures

It is rare to use staircases that are supported only by the building and that take their inner stability from their own structure. This is, however, possible in the case of a reinforced concrete building because of its high load-bearing capacity.

The staircase as a whole is a filigree structure over 53 m that completely dispenses with supports, but still achieves a level of stability that you would not believe at first sight of the structure.

The inclusion of access security in the banister area offers additional protection from unauthorised entry, though this takes a back seat in order not to impede the overall impression of the staircase.

The demand for security from unauthorised access and the creation of slim contours is achieved on spiral staircases with the addition of structural elements. Access security with an expanded metal infill creates transparency and optical separation.

Special structures can differ from the norm in widely varying ways. We are able to fulfil any kind of a special request thanks to our machinery and laser systems.



Outdoors the use of sheet metal profile racks is a good alternative to gratings. The 'Formstep' design was the most popular surface of all the surfaces that are possible in sheet metal profile racks.

Because of the trapezoidal base of the spiral step not all surfaces are suitable for overall cover. Sometimes only part of the step can be embossed with an individual surface.

If you are considering using a sheet metal profile rack when planning your individual spiral staircase, then we can give you valuable tips and further information on the use of many different surfaces at a personal meeting.

The architect has the opportunity of substantially influencing the overall appearance of the spiral staircase through the design of the banister.

When choosing the banister the planner first looks at the safety aspect. It is also necessary to adhere to valid regulations.

The way in which the cross bars are arranged, the choice of material or the colour selection for the banister elements remain subject to the planner's creative ideas.

The comprehensive range of machinery in our production facility also allows us to manufacture the most complex banister structures.









Special Structures

Outdoor spiral staircases are often used as a second escape route or an additional access route to the various buildings and/or storeys.

It is often necessary to secure access in order to avoid use of the staircase by unauthorised persons.

One variation is a protective cage around the entire staircase up to a height of approx. 2,500 mm, or partial protection is also possible. In this case the cage is only installed up to a height of approx. 2,000 mm and runs with the pitch of the staircase. The space under the steps remains accessible.

MEISER can offer various structures with infills made of 12 mm round steel, with corrugated wire grating or with perforated sheet metal. Additional colour coating of the individual construction elements is also possible.





Connection of the staircase to the building is always a decisive point for the structural engineering of the structure as a whole.

The method by which the spiral staircase is attached depends essentially on the diameter and the total height. The number of necessary connection points may vary, but the decisive point is whether it is possible to attach the staircase directly to the building. If the building type does not allow this, then brackets can be used to bridge the insulation and horizontal differences in height between the access height and the mounting point.

If an additional distance of 1.5 m between the staircase and the building is required for fire safety reasons, then this is solved by extending the landing in the access area and with pipe structures on the resting landings. The structural design of the necessary brackets is based on the transferred loads and the distance that needs to be covered.

We design the details as part of the construction documentation and submit it to you for approval.







Enquiry Form for MEISER Staircases

Steel staircase design, manufacture and delivery on site in accordance with client requirements. Verifiable staircase statics and assembly on request at additional costs. (Mandatory information for staircase enquiry in "bold", please cross out points that are not applicable)

Staircase type:	(e.g. single, double, multiple or dog-leg flight, spiral or winding stair
	case)
Overall dimensions of structure: approx.	xmm
Height of staircase: approxmm	(height difference to be crossed)
Number of storeys:	(with individual room heights, ceiling thicknesses and structures)
Tread width and/or diameter: approx mm	(useful tread width and/or overall staircase diameter)
Traffic load:kN/m ²	(Industrial staircase or fire exit)
Step flooring:	(Grating, flat, textured, perforated sheet metal trough)
Step flooring on trough:	(e.g. wood (solid, thickness, type); stone (natural, artificial, type),
	screed)
Grating:///	(Mesh size, bearing bar dimensions)
Pitch ratio:	(rise/run (2 H + A 590 to 650 mm))
Resting landing: pieces approx x	mm (useable size)
Access landing: pieces approx x	mm (useable size)
Staircase stringers:	(Material, description/drawing if possible)
Support structure:	(Material, description/drawing if possible, two or four, inside or
	outside; spiral column)
Banister type:	(e.g. on one or both sides, banister infill)
• Handrail:	(Tubing (38, 42, 48 mm) ST37-2, stainless steel; flat-rolled steel;
	wood (diameter/type))
• Shafts:	(Tubing (38, 42, 48 mm), flat-rolled, branch or basic Bessemer steel)
• Infill:	(e.g. bars, fascia, grating, sheet steel)
Upper/lower fascia:	(e.g. as tubing, bar, flat-rolled steel)
Banister height:	mm
Surface:	(e.g. galvanized in accordance with DIN EN ISO 1461; primed;
	powder coated; stainless steel)
Installation location:	(Compliance with provisions/guidelines e.g. DIN, workplace ordi-
	nance, day-care centre; indoor or outdoor etc.)

Sample Text

Steel Staircase System

Manufacture and delivery of a ______ (single, double, dog-leg flight, ...) stringer staircase system outdoors at ______ (project) with a height of approx. ______ mm to be crossed (from OKFF to OKFF) and with a useable tread width of ______ mm (in accordance with DIN 18065) with a pitch ratio of ______ mm (rise/run), in line with technical norms and regulations.

The steps and landings will be fitted and mounted with ______ (determine flooring exactly, e.g. grating P30/30 with non-slip front edge and normed plates) securely laid and fixed on/between a necessary substructure. (Penetration resistance to max. 120 mm must be assured) Tread strings and 3-sided landing surrounding on ______ resting landing(s) ______ x _____ mm (useable area) and ______ access landing(s) ______ x _____ mm (useable area) are made of ______ (profile).

Beams in _____ (open profile) are installed under the landings and screwed to the _____ supports in _____ (open profile).

Supports, landings and treads are fitted with diagonal bracing where statically necessary.

A banister of type ______ (C1, C2, ... A1, B1) with a height of ______ mm is attached on the stringers with screws. The ______ banister (on one or both sides etc.) comprises ______ (handrail and shafts in tubing Ø 38 mm, banister infill in tubing Ø 26.9 mm or round steel 10 mm), produced per field, handrail open ended or to be connected at assembly.

The execution of all steel parts in ______ (S235JR in accordance with DIN EN 10025, galvanized in accordance with DIN EN ISO 1461, etc.).

Brand bid: MEISER staircase or equivalent.

1 piece _____€____€

Verifiable staircase statics for the steel staircase described above.

1 piece _____€ ____€

Assembly for steel staircase described above with unimpeded access to construction site and connection to/on load-bearing components and on foundations provided on site.

1 piece _____€ ____€

Additional price _____ (different tread flooring, ...)

1 piece _____€

(Appendix: steel staircase designs, site plans, location plans, etc.)

General:				
(e. a. aeneral description of construc	ction proiect; additional information o	n installation location; c	lirections etc.)	
(,	
Assembly: yes / no		Verifiable statics:	yes / no	
Customer:				
Address:				
Telephone: /	Fax: /	_		
E-Mail:	@			
Processed by:	Date:			
Appendix: (e.g. sketches, drawing, s	statics, specifications)			
You can contact us at:				
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Am Lehmteich 3	Schmelzer Strasse			
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Fax: + 49 (0) 3 74 21 50 21 40	Fax: + 49 (0) 68 87 3 09 32 11			
	E-Mail: treppenbau@meiser.de			

Sample Text

Steel Spiral Staircase System

Manufacture and delivery of a ______ (single, multiple flight, ...) stringer staircase system outdoors at ______ (project) with a height of approx. ______ mm to be crossed (from OKFF to OKFF), an external diameter of approx. ______ mm and with a useable tread width of ______ mm (in accordance with DIN 18065) with a pitch ratio of ______ / _____ mm (rise/run), in line with technical norms and regulations.

The steps and landings are fitted with a sleeve column and have an all-round surround (steps in flat-rolled steel, landings as statically necessary).

The staircase will have _____resting landing(s) (size as approx. 3 x step and wall mounting) and ______ access landing(s) ______ x _____ mm (... + useable area outside circle diameter).

The (multi-part) central column is fitted with a footplate and serves as a substructure to insert steps and landings.

A banister of type _____ (C1, C2, ... A1, B1) with a height of _____ mm is attached on/to every second level with screws. The banister comprises ______ (handrail and shafts in tubing Ø 38 mm, banister infill in tubing Ø 26.9 mm or round steel 10 mm).

The execution of all steel parts in ______ (S235JR in accordance with DIN EN 10025, galvanized in accordance with DIN EN ISO 1461, etc.).

Brand bid: MEISER staircase or equivalent.

1 piece ______€ _____€

Verifiable staircase statics for the steel staircase described above.

1 piece ______€ _____€

Assembly for steel staircase described above with unimpeded access to construction site and connection to/on load-bearing components and on foundations provided on site.

1 piece _____€____€

Additional price _____ (different tread flooring, outside stringer, non-slip front edge and many more)

1 piece _____€

Additional price ______(______)

1 piece _____€

(Appendix: steel staircase designs, site plans, location plans, etc.)

Production locations

Germany

Gebr. MEISER GmbH Schmelzer Straße D-66839 Schmelz-Limbach Tel.: +49 (0) 68 87 - 30 9-0 Fax: +49 (0) 68 87 - 30 9-3131 Email: info@meiser.de

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Hungary

MEISER Ferroste Papirgyári ut 13 H-2400 Dumaújváros Tel.: +36 (0) 25 511 - 012 Fax: +36 (0) 25 50 18 70 Email: ferroste@ferroste.hu

Belgium

FAMECO S.A. Rue Pelé-Bois 4 B-4590 Ouffet Tel.: +32 (0) 86 36 64 31 Fax: +32 (0) 86 36 64 33 Email: sales@fameco.be

Egypt

Multi MEISER Egypt for Bar grating production S.A.E. 6, Ramo Buildings/Nasr Road AE-Nasr City, Cairo Arab Republic of Egypt Tel.: +202 (0) 41 51 485 Fax: +202 (0) 29 10 702 Email: mmeiser@link.net

Morocco

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France

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