



MODERN FOUNDATION CONSTRUCTION



www.krinner.com

efficient • no concrete • durable

THE EVOLUTION OF MODERN FOUNDATION CONSTRUCTION





The development of ground screws represents a milestone in the creation of modern alternatives for **concrete-free foundations**. The ground screws business unit encompasses the manufacture, worldwide sale and installation of the patented ground screws. To install them correctly, we have developed special machines and equipment that perform this task quickly and easily. This internationally successful company very quickly established itself as a market leader with a reputation for

Quality, Reliability, Competency and Innovativeness.

General Principle



Every employee makes a significant contribution to the overall success of our company with their personal strengths, dedication and character. KRINNER Schraubfundamente fosters a spirit of creativity, and a sense of responsibility in each individual. Short decision-making paths accelerate the implementation of projects, promote growth in the region and safeguard workplaces.

History



- 1994** Development and patenting of the first ground screws
- 2004** **Company establishment**
Transfer of ownership of the ground screws business unit to the company KRINNER Schraubfundamente GmbH
- 2005** Development of new ground screws and the associated driving equipment to expand our "professional range" business
- 2007** Massive growth in the photovoltaics field of application
- 2008** Expansion in the number of local distributors and international agencies for ground screws
- 2009** Project development and foundation construction for the largest photovoltaic facility in Germany (Gänserndorf)
Establishment of the company Krinner Solar GmbH
- 2010** Establishment of Krinner Mounting Inc. for the Canadian sector

KRINNER worldwide



- Angola
- Australia
- Austria
- Azerbaijan
- Barbados
- Belarus
- Belgium
- Brazil
- Bulgaria
- Canada
- Chile
- Croatia
- Czech Republic
- Denmark
- Dubai
- Estonia
- Finland
- France
- Georgia
- Germany
- Great Britain
- Greece
- Hungary
- India
- Iran
- Israel
- Italy
- Japan
- Kazakhstan
- Kuwait
- Latvia
- Lithuania
- Luxembourg
- Mozambique
- Netherlands
- Poland
- Portugal
- Romania
- Russia
- Slovenia
- Slovakia
- South-Africa
- Spain
- Sweden
- Switzerland
- Thailand
- Turkey
- Ukraine
- United States of America
- MENA

Fields of application



Timber construction



Shed and container construction



Advertising and traffic
engineering



Fence construction



Urban and landscape
development



Photovoltaics



TIMBER-FRAME CONSTRUCTION

Exemplary solutions and applications:

- Timber terraces
- Carports
- Roofs
- Framehouses
- Footbridges and bridges



ADVERTISING
AND TRANSPORT
TECHNOLOGY

Exemplary solutions and applications:

- Advertising pylons
- Flagpoles
- Perimeter advertising
- Construction signs
- Traffic lights



URBAN AND GARDEN
LANDSCAPE CONSTRUCTION

Exemplary solutions and applications:

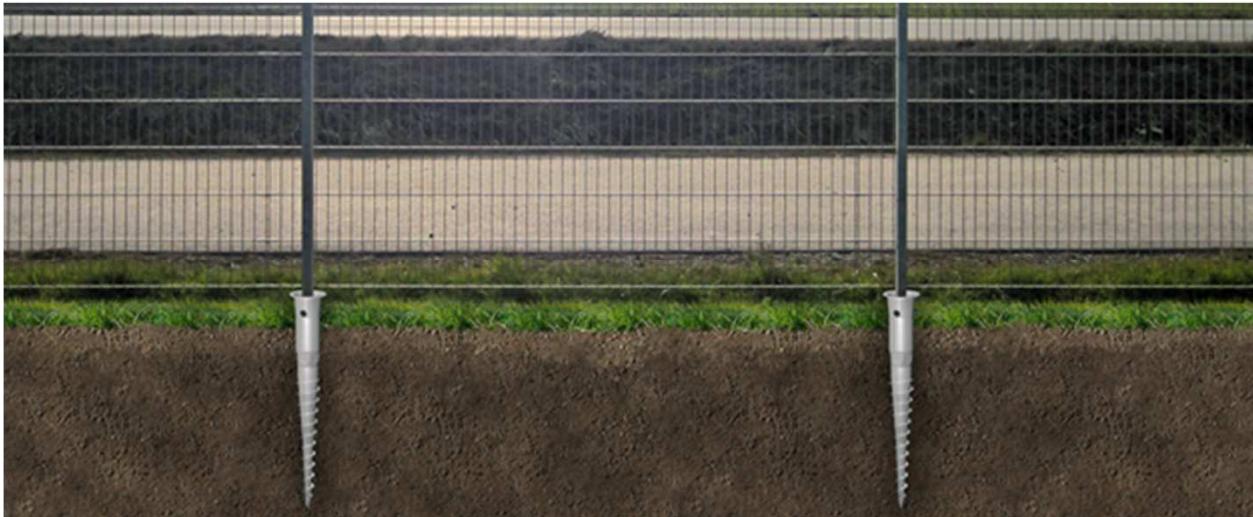
- Bus shelters/benches
- Barriers
- Parking meters
- Street- and Solarlamps
- Noise barriers and screen walls



SHED AND CONTAINER CONSTRUCTION

Exemplary solutions and applications:

- Production and storage sheds
- Waiting halls
- Glass- and greenhouses
- Office containers
- Prefab garages



FENCES

Exemplary solutions and applications:

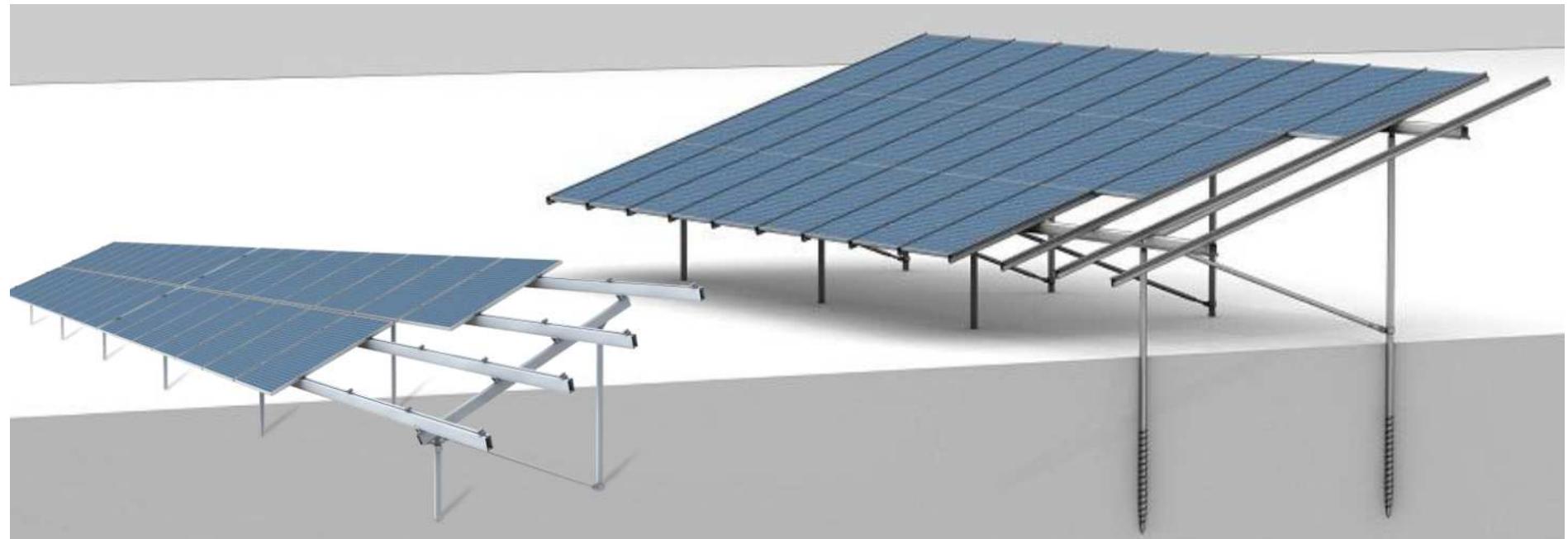
- Industrial- and Construction fences
- Wire-netting fences
- Ball-catching fences
- Safety-and Security fences
- Garden fences



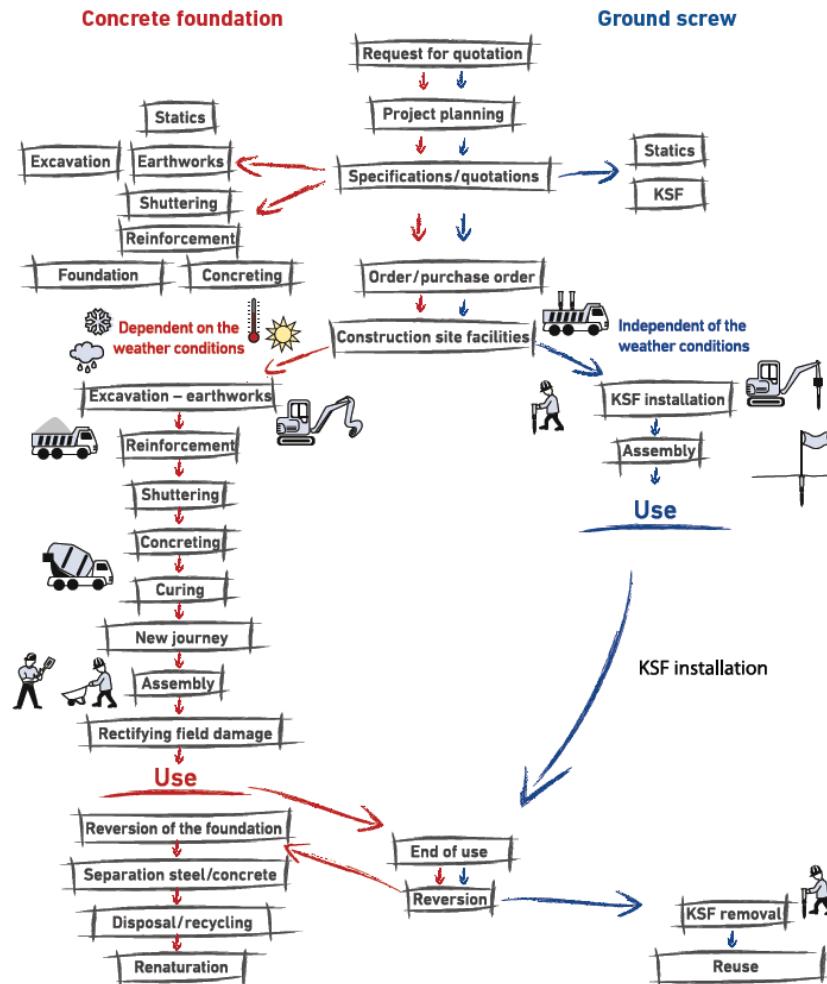
PHOTOVOLTAIC INSTALLATIONS

Exemplary solutions and applications:

- Photovoltaic open-space installations, System „KRINNER Flex I and III“
- Photovoltaic open-space installations, various system suppliers with foundation solutions made by KRINNER Schraubfundamente
- Photovoltaic trackers
- CSP (concentrated solar power) installations
- Fences for photovoltaic open-space installations

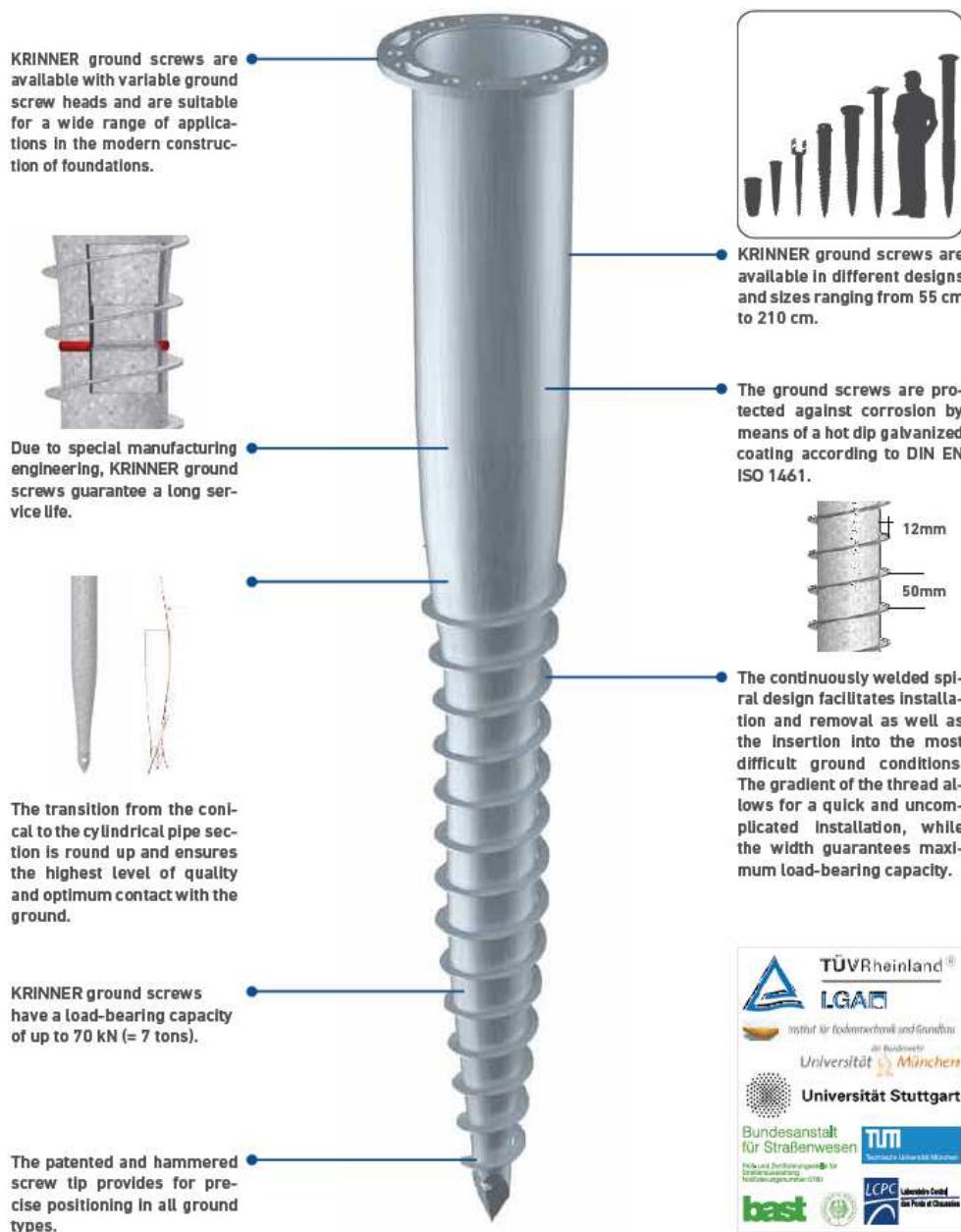


Example for a construction site process:

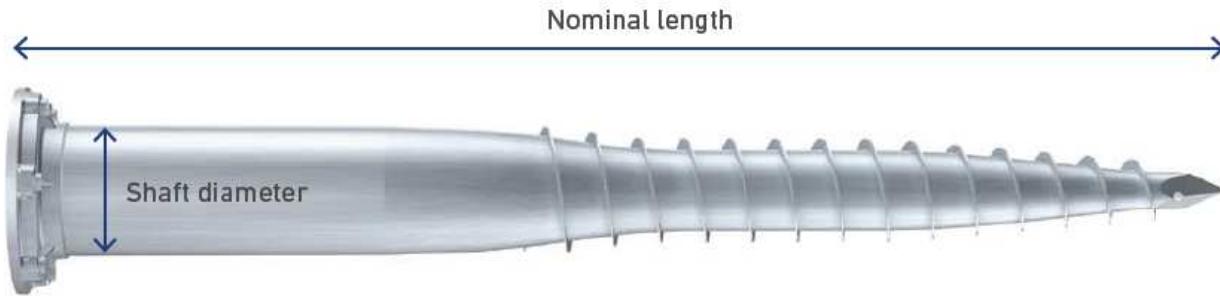
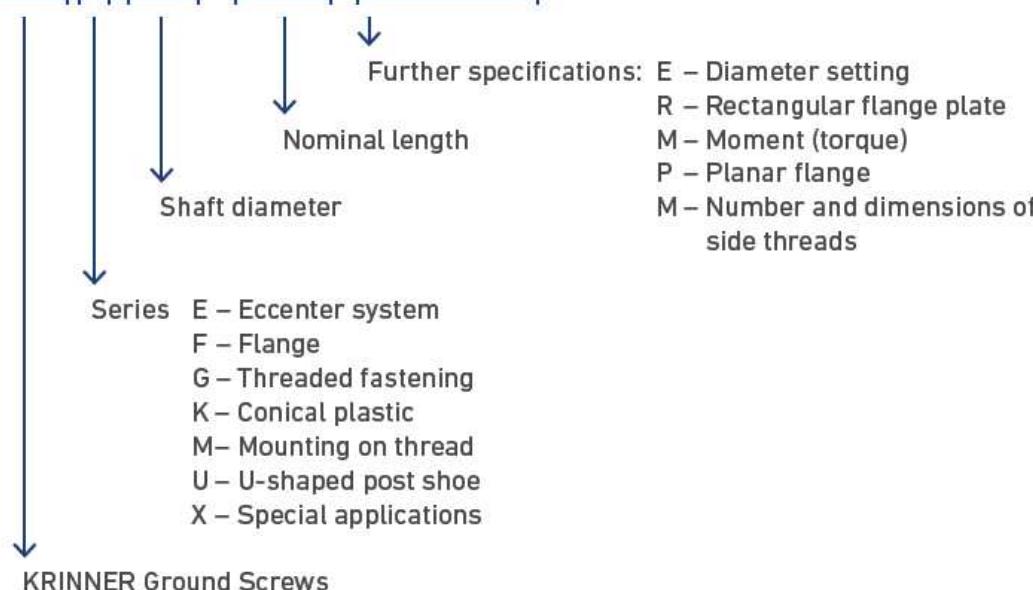


Advantages:

- Cost savings
- Short assembly time
- Suitable for all load-bearing soil types
- Statically tested
- No earthwork and concrete work required
- Long service life
- Immediately loadable
- Extremely stable
- Quick changes of position
- The surrounding area remains unaffected
- Installation also into sealed surface areas
- Easily reversible and recyclable
- Environmentally friendly, ecological, sustainable
- Vertical position by patented eccentric and/or granulate system



Designation system for KRINNER Ground Screws

**For example****KSF E 140x1300-E76-100**



E SERIES

The KRINNER ground screw
with eccentric for exact alignment



KSF E 140x2100-E76-100



KSF E 140x1600-E76-100



KSF E 140x1300-E76-100



KSF E 89x1000-E60



KSF E 89x800-E60



KSF E 89x550-E60



F SERIES

The KRINNER ground screw with
flange plates for modular use





G SERIES

The KRINNER ground screw
with thread fixation



KSF G 114x 1300-4xM16



KSF G 114x 1000-4xM16



KSF G 89x 1300-4xM12



KSF G 89x 1000-4xM12



KSF G 89x 800-4xM12



KSF G 76x 2100-3xM16



KSF G 76x 1600-3xM16



KSF G 76x 1300-3xM16



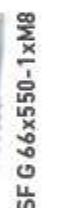
KSF G 76x 800-4xM12



KSF G 66x 650-3xM8



KSF G 66x 650-1xM8



KSF G 66x 550-1xM8



M SERIES

The KRINNER ground screw
for direct installation on the thread

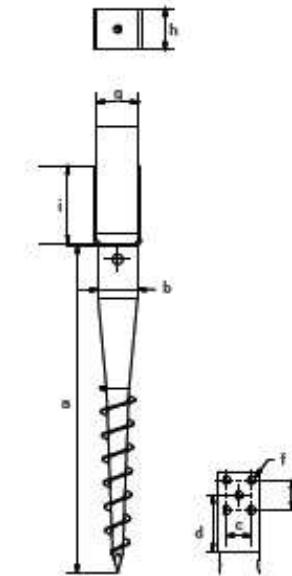




U SERIES

The **KRINNER** ground screw
for the easy installation of beams

The ground screws of the U series are particularly adjusted to the common dimensions of wooden beams.

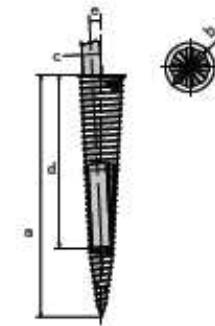




K SERIES

The KRINNER Ground Screw
made from plastic

This series is particularly
suitable for mounting fence
and sign posts.





X SERIES

The KRINNER Ground Screw
for special applications

The ground screws for special
applications, e.g. road reflec-
tion posts.

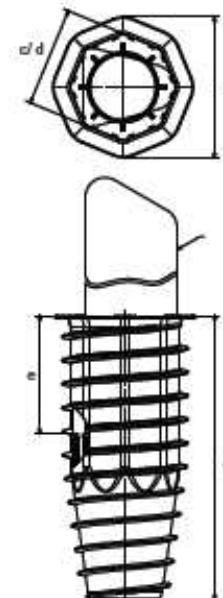
X SERIES OVERVIEW

KSF X	130x350-LP
Nominal length (mm)	350
Tube Ø (mm)	178
Weight (kg)	0.60
Item no.	22040
Cover sleeve	●
Fields of application	■ ■ ■



TECHNICAL DATA

KSF X	130x350-LP
a Length (mm) (± 25 mm)	350
b Outer Ø (mm)	178
c Inner Ø (mm)	125
d Adjustment Ø (mm)	125
e Adjustment depth (mm)	150



OVERVIEW OF RANGE OF PRODUCTS

individual – competent – comprehensive



E series		F series			G series					K series	M series					U series			X series
-E76- 100	-E60	-P	-M	-R	114-4x M16	89-4x M12	76-3x M16	76-4x M12	66-3x M8	66-1x M8	-140- M24	-114- M24	-89- M24	-76- M16	-76- M12	-111	-91	-71	-LP

Screw-in Machines



Screw-in machine KR E 20



Screw-in machine KR D 55



Screw-in machine KR B 40-B1



Screw-in machine KR B-60-B1



Fastening Solutions

versatile • future-proof • productive



CONICAL SHAPE/GANULATE:

Tapering foundation made of special plastic for highest stability and long service life for fences and sign posts.



WOODEN BEAM SUPPORT:

Modular usable with flange plates, adapted to the respective structural loads.



THREADED SCREWS:

Three or four, respectively, threaded screws for quick and easy installation.

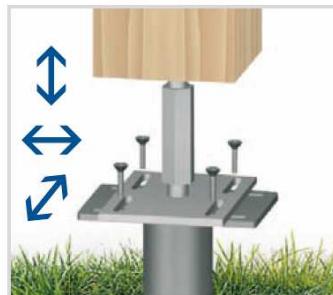


U-FIXING:

Simple fixing by means of axis and height adjustment for lying or standing beams.

Fastening Solutions

versatile • future-proof • productive



POST SUPPORT:

Well fitting connections due to variable axis and height adjustment.



FLANGE PLATES:

Modular usable with flange plates, adapted for the respective structural loads.



FOUNDATION COVER:

Precise to the point adaptation of wood structures and variable height compensation.

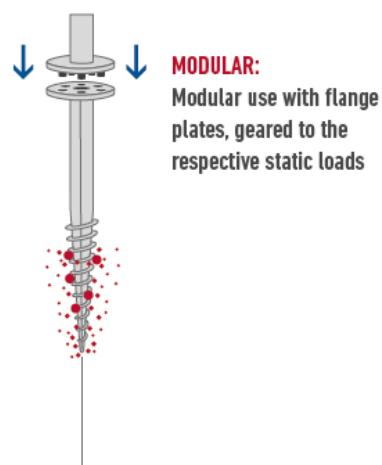


ECCENTRIC ADJUSTMENT:

Fine adjustment and perfectly perpendicular position for resonance and vibration free mounting.

Statics

perpendicular • safe • permanent

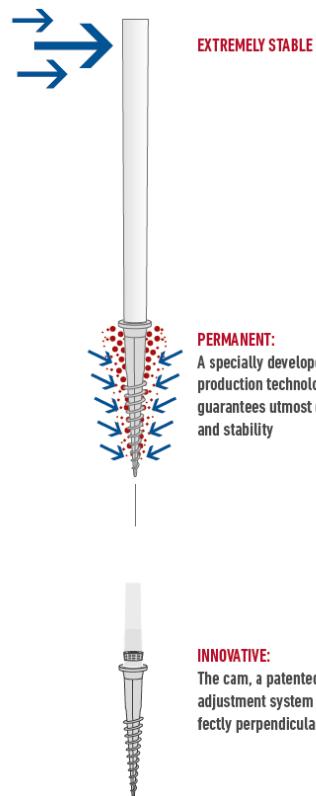


MODULAR:
Modular use with flange plates, geared to the respective static loads



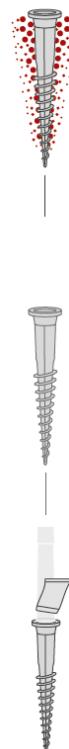
FAST:
KRINNER's newly developed ground screw system makes for very short assembly times

PERPENDICULAR:
Vernier adjustment and perpendicular position through a patented cam or granulate system



EXTREMELY STABLE

PERMANENT:
A specially developed patented production technology guarantees utmost durability and stability



SAFE:
The ground screws' conic form compacts the soil and guarantees stability and safety

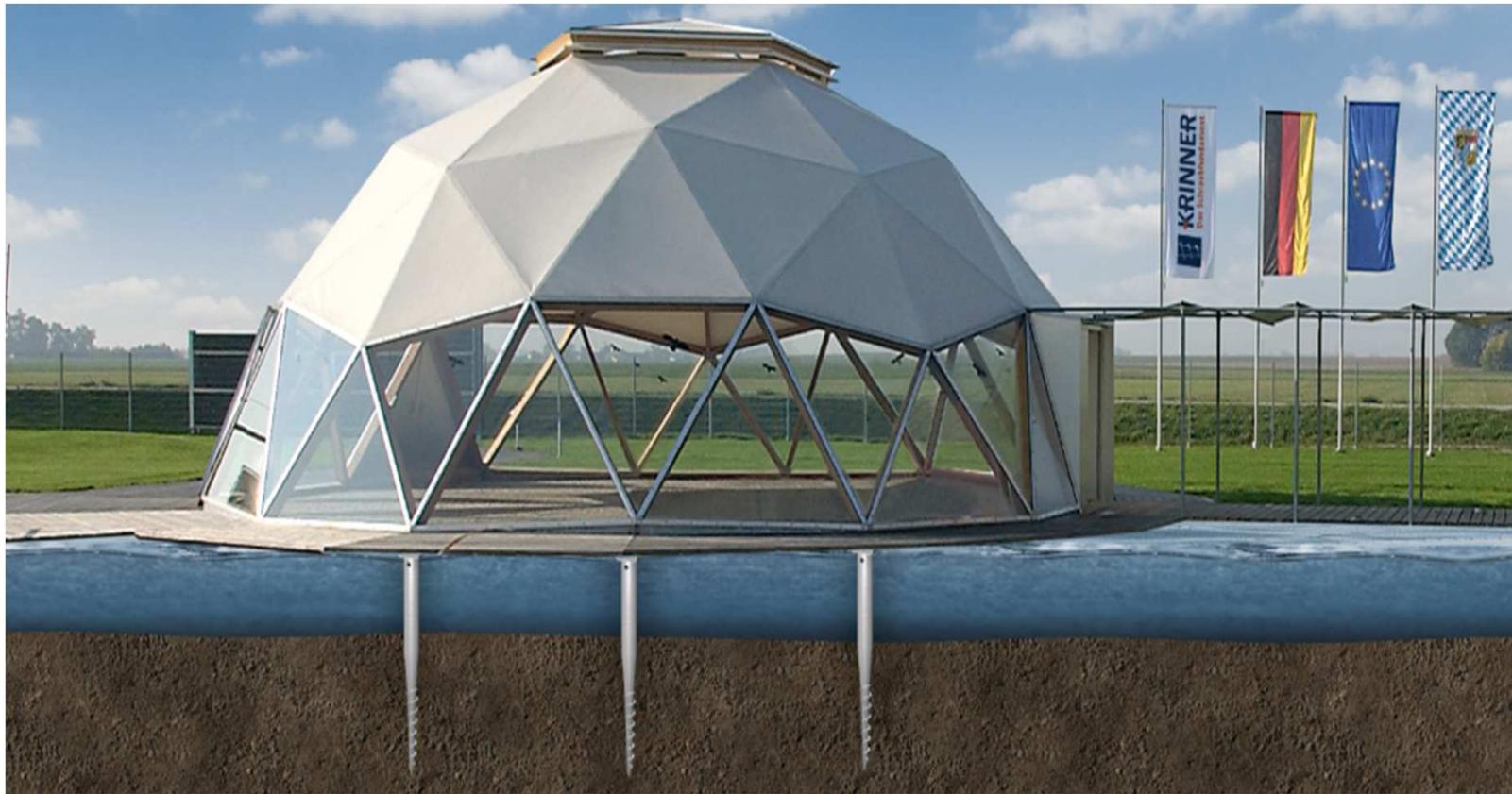
ENVIRONMENTALLY FRIENDLY & MOBILE:
The ground screws' deconstruction is possible at any time



INNOVATIVE:
The cam, a patented vernier adjustment system for a perfectly perpendicular position

FAST:
With granulate made of sharp-edged crushed granite for a fast, perpendicular and inexpensive assembly

International References





Timber-frame Construction



Latvia, Cesu raj. Nitaure ca. 130 km from Riga



Timber-frame Construction



Switzerland, Schoren school



Timber-frame Construction



Switzerland, Wellness Hotel Fidazerhof



Timber-frame Construction



Switzerland, school



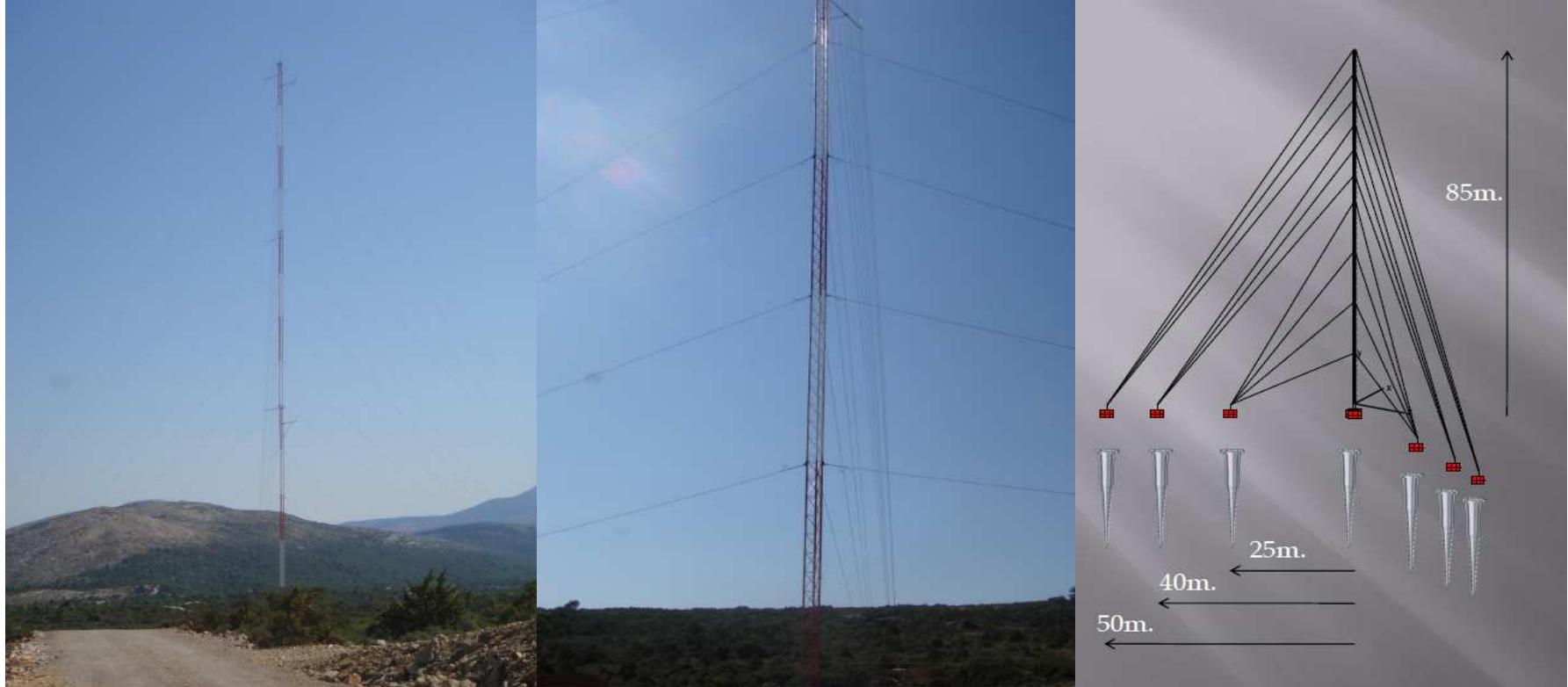
Shed and Container Constructions



Switzerland, production hall



Advertising and Transport Technology



Greece, Dervenochoria Attica, radio mast





Timber-Frame Construction



Switzerland, residential building



Timber-Frame Construction



Switzerland, Mobile-Home's



Timber-Frame Construction



Australia, terrace around a landmarked tree



Timber-Frame Construction



Siberia, log cabin, sauna



Timber-Frame Construction



Siberia, residential building



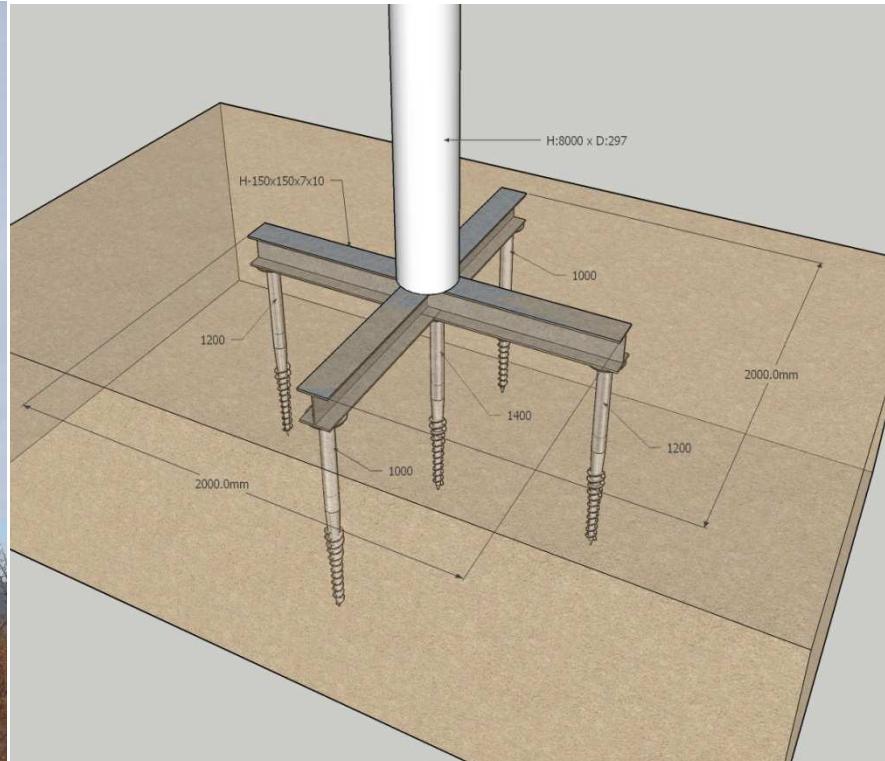
Shed and Container Constructions



Austria- Modular-Building-Systems



Advertising and Transport Technology



South Korea, fire tower



Timber-frame construction



South Korea, footbridge



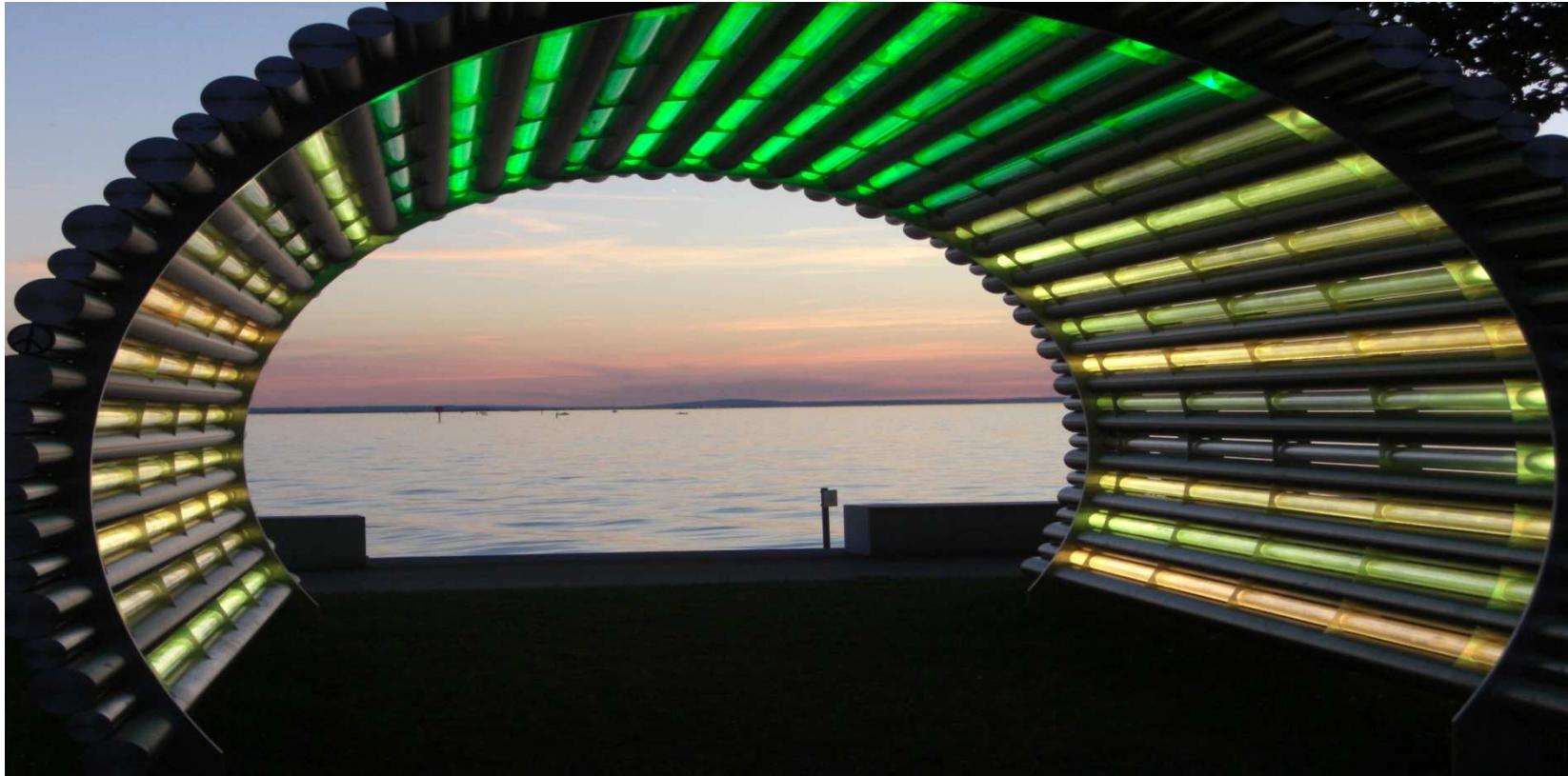
Timber-frame construction



South Korea, footbridge



Urban, Garden and Landscape Construction



Austria, Bregenz chanel



Shed and Container Constructions



Australia, round arch hall



Urban, Garden and Landscape Construction



Denmark, theater



Shed and Container Constructions



Netherlands, Mobile Showroom



Urban, Garden and Landscape Construction



Netherlands, Luzern Stadion



Urban, Garden and Landscape Construction



Netherlands, lightning hospital



Urban, Garden and Landscape Construction



Netherlands, modern arts



Shed and Container Constructions



Switzerland, green house



Shed and Container Constructions



Switzerland, amor hall



Advertising and Transport Technology



Austria, letter shoot construction



Advertising and Transport Technology



Netherlands, bike hall

Advertising and Transport Technology



Austria, Windnet for skijump Berg Isel in Innsbruck



Shed and Container Constructions



Modular-Building-Systems



Shed and Container Constructions



Loading ramp



Shed and Container Constructions





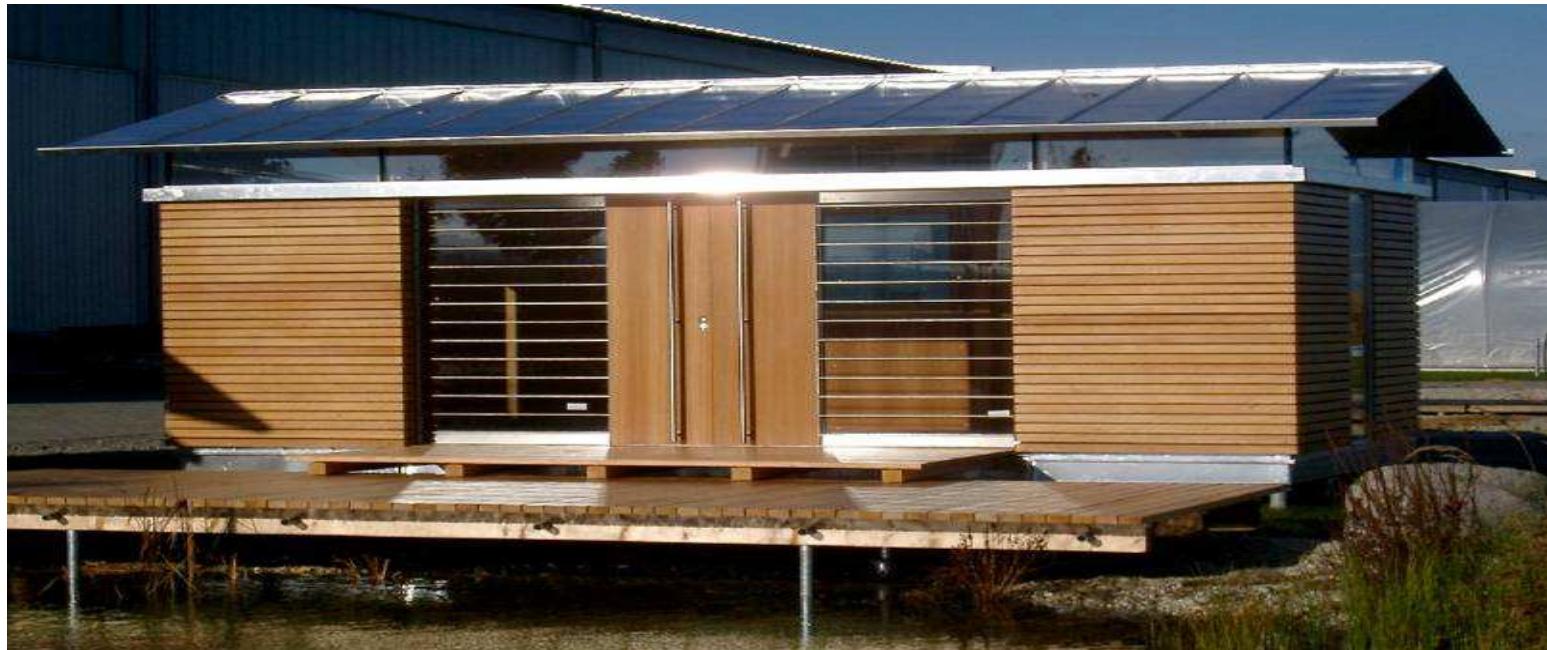
Shed and Container Constructions



Australia, hall

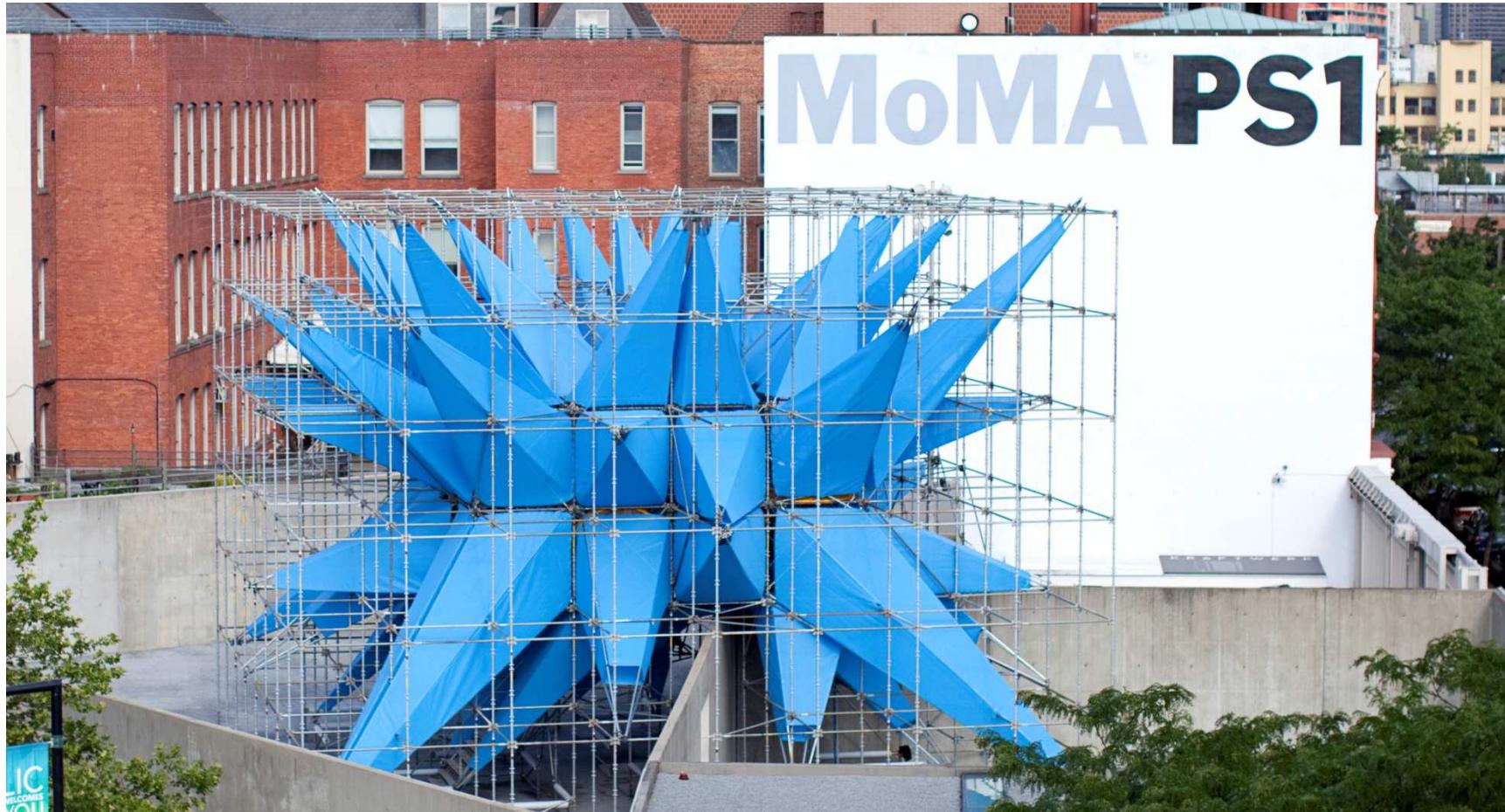


Timber-frame construction



Germany, Exhibition Krinner Straßkirchen

Wendy – MoMA







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