



FERRADIX®

The anchor bolt for the ground

MAKE YOUR LIFE EASIER

CATALOG FERRADIX®

Our Range • Our tool
installation equipments • accessories



WELCOME TO VERTICAL ANCHORING



Welcome

Dear Reader,

Back in the 1980s, Mr Joachim Bader the Chairman of the German Inventors' Association and later President of the European Inventors' Associations (EIA) invented the FERRADIX® root pile.

Our vision: concrete-free mounting of signposts – for the sake of the environment. Since that time, we've been developing post foundations designed to conserve resources with as little environmental interference as possible – following the example of nature.

Today, the issue of sustainability is more relevant than ever, which explains the growing of community's freinds of our root poles throughout Europe.

“Less concrete = fewer carbon emissions” – this is the guiding motto that has served us over the past 40 years. We will continue to pursue this objective in all future activities of the FERRADIX® brand.

This catalog is a cordial invitation for you to join us on this journey!

Best wishes

Gebr. Sträb GmbH & Co. KG



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Our FERRADIX®
range



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Our FERRADIX®
installation tools



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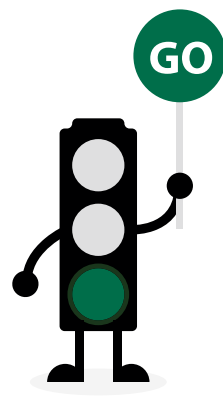
The selected
installation material



43

FERRADIX®
accessories





It makes all the difference:
Be on the safe side, with FERRADIX®.



Product use

The products in our FERRADIX® product range are designed for use as small foundations, specifically for traffic signs, information and pedestrian signs, street furniture such as benches, litter bins, barrier posts, railings and fences and sports facilities.

The application examples shown on our website and in our catalogs and brochures will help you determine which foundations are suitable for each application. However, the number and size of foundations required will depend on the type of soil as well as the size, weight, snow loads and wind loads of the objects to be supported. For example, a FERRADIX® foundation may not necessarily be suitable for anchoring a flagpole. Therefore, when it comes to using our products to anchor larger objects, we strongly recommend that you have the planned foundation verified by a static calculation. We assume no liability for any damage resulting from lacking or incorrect static calculations.

The user of the foundations is responsible for complying with existing regulations for use/installation. Among other things, the regulations and guidelines of the legislator, supervisory authorities and trade associations regarding execution, accident prevention and environmental protection must be observed. Before starting the installation work described in these instructions, make absolutely sure that no cables or pipes, such as electrical cables, TV, telephone or internet lines, water or gas pipes, etc. are running through the installation site of the object and the root pole foundation. The shaft and cable plans of the operator or utility company should be consulted and appropriate cable and route locators should be used to check the subsoil accordingly. Instructions for handling our products and user training by our staff regarding the optimal application and use of our FERRADIX® products are, of course, included in the scope of our services, but without any guarantee for the application in individual cases.

Limitation of liability

Subject to the above (product use) and any specific contractual provisions, the following applies. STRÄB GmbH & Co KG (hereinafter referred to as STRÄB) shall be fully liable in the event intentional or grossly negligent misconduct.

In cases of simple negligence on the part of STRÄB, STRÄB shall only be liable in the event of a breach of a material obligation (cardinal obligation). A breach of a material obligation shall not be deemed to exist in the event of 1) a breach of an obligation whose fulfillment is essential for the proper performance of the contract or 2) a breach which jeopardizes the achievement of the purpose of the contract and on the fulfillment upon which the customer may regularly rely.

In this case, STRÄB's liability shall be limited to any foreseeable and typical damage, and for each case of damage, to the amount of the remuneration paid under the contract or individual order in which the breach of duty occurred. STRÄB shall not be held liable for any damage caused by the purchaser or user due to improper use of the product, in particular due to non-compliance with the instructions for use (product application) and care instructions. Furthermore, STRÄB shall not be liable for lost profits, lost savings and indirect consequential damages.

The statutory liability for injury to life, body and health and in accordance with the Product Liability Act remains unaffected by the limitations of liability.

A limitation period of one [1] year shall apply to all claims against STRÄB for damages or compensation for futile expenses in the case of contractual and non-contractual liability. The limitation period shall commence at the time specified in § 199 (1) of the German Civil Code (BGB). The limitation period expires at the latest 5 years after the claim has arisen. The above three sentences shall not apply in the event of personal injury or under the Product Liability Act or in the event of a warranty for defects.

The above liability and limitation rules also apply accordingly to the conduct of and claims against employees, legal representatives, vicarious agents and (sub)agents of STRÄB.

Assembly instructions:



1



Test report V4-821/2007 from the
Federal Highway Research Institute BAST

2



IVZ standard 2022 – compliant

3



Structural calculations for external
stability in various soil
classes and wind load zones

4



Stability test

5



DEKRA validation for CO₂ savings

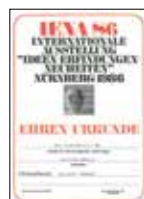
6



Patents and property rights

Patent DE: 10 2012 107 204.3, Patent EP 3 042 998,
Patent DE: 50 2008 008 337.5, Patent EP: 000002957675,
Patent DE: 50 2014 010 382.2, Patent EP 000003228750,
Patent DE: 50 2017 007 804.4, Utility model DE: 20 2014 102 748.3,
Utility model DE: 20 2015 002 651.6 ...

7



Over 40 years of development
experience and enthusiastic customers

8



Production in a company
with a DIN 9001:2015
certified management system

9

Sträb GmbH since 1926



Nearly 100 years of
experience with steel



A HEART OF PURE STEEL

The patented biconical steel ring exerts exceptional holding power, preventing any rotation or vertical traction of the support.

Your equipment is automatically centered and plumb.

The four stamped parts of the clamping plate prevent the bolt heads from protruding.

In case of a crash or vandalism, the support can be replaced in minutes.

The entire assembly is hot-dip galvanized, according to EU standards.



Quick replacement



Extremely robust



ALPHA Ferradix®

Its popularity is based on its simplicity: In natural soil, you take the stake, engage the ram, and drive it in. It's done.

Technical characteristics:

sharp extremity

In asphalt : L400 to 600

en terrain naturel: L. 600 à 800 mm

Sections du support: Ø 50 à 100 mm,
80x40 mm, 80x80 mm

Recommended length : 400 to 600mm

CITY Ferradix®

An immediate hit in the city: thanks to its shape, you can easily and confidently seal your surfaces.

Technical characteristics:

Rounded extremity

in thick asphalt, deactivated concrete, stone

In concrete and paved ground

Support sections: 60 to 90 mm , 80x40

Unique length of city Ferradix : 300mm



All our piles are delivered with the mounting set adapted to your mast



FERRADIX®

All our FERRADIX® anchor piles are developed, produced, and sold exclusively by Sträb GmbH.

The FERRADIX® is made entirely of hot-dip galvanized steel.

Over 300 references to choose from.

Make your life easier

From 40 to 100 mm in cross-section, FERRADIX® fits perfectly to the diameter of your mast.

Alpha Ferradix® 76x600 mm



1985 AHEAD OF ITS TIME – MORE RELEVANT THAN EVER TODAY!

We developed FERRADIX® at a time when the topic of „carbon footprint“ was still largely unknown: the foundation for a cement-free installation in natural soil. Today, we offer holistic solutions to securely fix posts ecologically for all types of soil. Compliant with IVZ standards since 2022.

Our 4 product lines



With the innovative quick-change function, knocked-down signs can be reinstalled in just a few minutes. Instead of laboriously constructing a new foundation, simply replace the tension ring and you're done!



ALPHA
40x400
2042



ALPHA
40x600
2043



ø 40 fixing kit
Conical seal
2045



Special closing
plate ø 40
200092



LiChu Art
Special closing
plate ø 40
110156



Mounting-set 40 x 40,
360° rotating
for ø 60
1104040



Ramming tool 40
Bore ø 29
100062



40 x 40 stainless
steel trim plate
110305



40 x 40 trim plate
RAL steel
110355

Mounting
Accessories

Next
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ALPHA 50x400
For posts ø 48,3 mm
200102



ALPHA 50x400
For posts ø 48,3 mm
200100



ALPHA 50x600
For posts ø 50 mm
200200



ALPHA 50x600
For posts ø 48,3 mm
200201



Mounting set ø 50 mm
Round seal
1101540R



Mounting-set ø 48,3 mm
Biconical steel ring
110154



M12 plate
special for ø 50 mm
110177



Special closing plate
ø 50 mm
110156



Ramming tool 50
Bore ø 29
110048



50 stainless steel
trim plate
110304



50 trim plate
RAL steel
110354

Mounting
Accessories

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ALPHA
60x300

2067



ALPHA
60x400

2066



ALPHA
60x600

2069



ALPHA
60x800

2099



CITY
60x300

2062



Mounting-set ø 60
Biconical steel ring

110157



ø 62 fixing kit
Conical seal

110151



Ramming tool ø 60
Bore ø 29

100126



ø 60 stainless
steel trim

110300



ø 60 trim plate
RAL steel

110350

Mounting Accessories

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ALPHA
76x300

2074



ALPHA
76x400

2076



ALPHA
76x600

2078



ALPHA
76x800

2079



CITY
76x300

2073



Fixing set 76
Steel biconical ring

2080



Fixing set 76
for "shape memory" posts

2080R



Scabbard
76x200

2072



Ramming tool 76
Bore ø 29

130006



76 stainless steel
trim plate

110301



76 trim plate
RAL steel

110351

Mounting Accessories

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ALPHA
80x40x300

200133



ALPHA
80x40x400

200111



ALPHA
80x40x600

200112



ALPHA
80x40x800

200118



ALPHA
80x300

2083



ALPHA
80x400

2084



ALPHA
80x600

2086



ALPHA
80x800

2088



CITY
80x40x300

2081



80x40 Mounting set
Rubber Seal

200115



Lockfix 80x40
Rubber seal

200192



City
80x300

2082



80 Mounting Kit
for "shape memory"
posts

2089R



Fixing set 80 seal

2089



Ramming tool 80x40
Bore Ø 29

804029



80x40 stainless steel
trim plate

110302



80x40 trim plate
RAL steel

110352

Mounting
Accessories

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Ramming tool 80
Bore Ø 29

110013



80 stainless steel
trim plate

110306



80 trim plate
RAL steel

110356

Mounting
Accessories

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80x 80



ALPHA
80x80x500

200300



ALPHA
80x80x700

200303



Scabbard
80x80x350

2883



Fixing set 80x80 seal

200304



Ramming tool 80*80
Bore Ø 29

808029



80x80 stainless steel
trim plate

110303



80x80 trim plate
RAL steel

110353

Mounting
Accessories

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90



CITY
90x300

2097



ALPHA
90x400

90400



ALPHA
90x600

90600



ALPHA
90/80x800

90800



Fixing set
Steel biconical ring

2091



Fixing set for
"shape memory" posts

2091R



Scabbard
90x550

2090



Ramming tool 90
Bore Ø 29

110024



Ø90 stainless steel
trim plate

110307



Ø90 trim plate
RAL steel

110357

Mounting
Accessories

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Scabbard
100x300

200132



ALPHA
100x500

200150
upon request



ALPHA
100x600

200160



ALPHA
100x800

200180

Ø 60



Extension 200 mm

2070

Ø 60



Extension 400 mm

2070.40

Ø 76



Extension Ø 76
200 mm

2077



Scabbard
100x400

200140



Fixing set
Ø100 seal

200162



Clamping kit
memory post

200162R



Closing plate
Seal Ø 100

200163

Ø 80



Extension Ø 80
200 mm

2087

Ø 90



Extension Ø 90
200 mm

2098



Ramming tool 100
Bore Ø 29

110029



Ø100 trim plate
RAL steel

sur demande

Special sections



Scabbard
60x30x200

200136



Scabbard
60x40x200

200280



Scabbard
60x15x100
Model Toulouse
avec Kit 200156

200155



Adapter plate for
flexible bollard
TEMPKA

110403



The original Made in Germany

Our root poles are developed and manufactured at our own factory in Wendlingen am Neckar. In our spacious warehouse, the essential dimensions are stored for you – ready on demand.

Our customers include cities and municipalities, state authorities and companies involved in road maintenance, facility management as well as gardening and landscaping throughout Europe. We are a DIN 9001:2015-certified family business with nearly 100 years of experience in the processing of steel.

In addition to our own brands, we have been producing punched parts for decades on behalf of numerous world market leaders from the Stuttgart region. In short:

Quality made in Germany – since 1926



60x30 mounting kit
O-ring

200139



60x40 mounting kit
O-ring

200281



40x40 fixing kit
Opening in light

200152



40x40 mounting kit
O-ring

200149



ALPHA Mooring
60x500

200121



ALPHA Mooring
60x700

200122

Vis Versa



- Installed in a Ferradix® Ø60
- Extremely robust
- Clean and neat
- Pedestrian safety



Setting up temporary information



- Our concept consists of:
- 1 FERRADIX® Ø60 ground anchor
 - 1 reversible spacer
 - 4 M8 x 25 mm bolts
 - 2 screws



After use, the sidewalk is free for pedestrians again



- For your tubes of:
- Ø 30 to 44 mm
 - 35 x 35 mm

Reference:
110245

J1-J2 Beacon

Mounting Plate, Ø192 for Beacon J1-J3

110297

Hauteur Ferradix au choix

J11-J12 Beacon

M12 plate J11-J12 beacon

110178

Mounting on FERRADIX®





FERRADIX®

The best anchoring solution!
Ecological, economical, and Aesthetically pleasing!

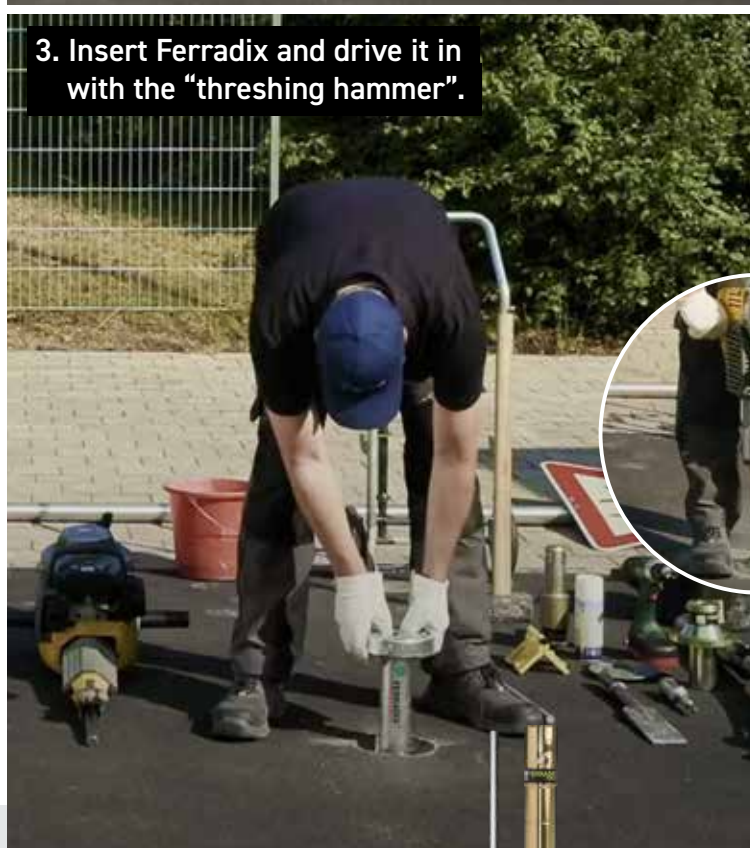
1. Open the surface with the core drilling bell.



2. Pre-perforate with a "pre-hole tube".



3. Insert Ferradix and drive it in with the "threshing hammer".



4. Fix the sign posts with the "clamping set".



≈ 12 min :
it's
finished



Pot chisel



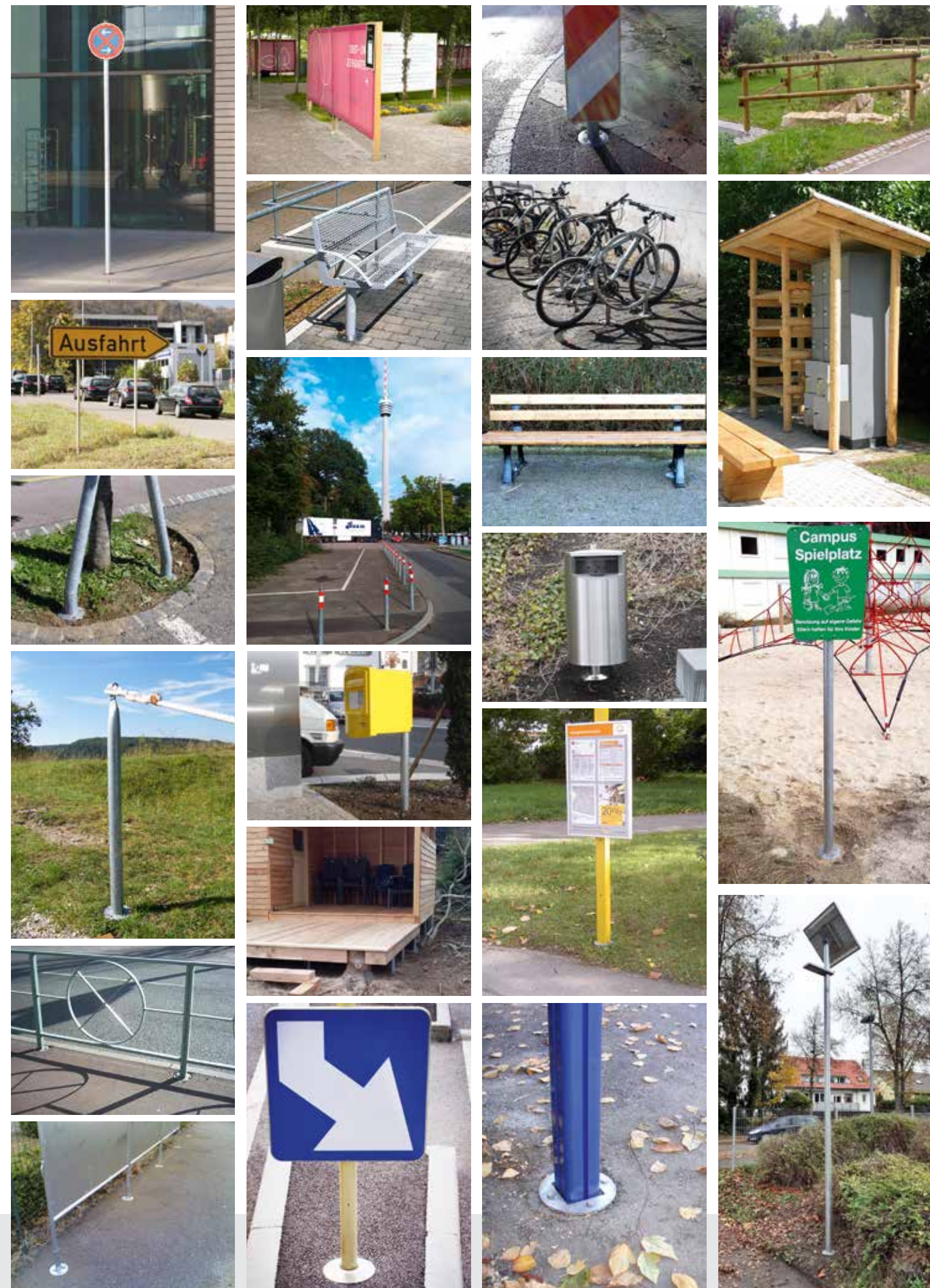
Pre-drilling Super-Set



Ramming tool



Mounting set



Fence installation



REF. 200179



Compacting Tool

110537



Metal cap for Country
Ø 50

12307



Metal cap for Country
Ø 60

12308

New!



self-drilling screw

90x90x650

200116-2

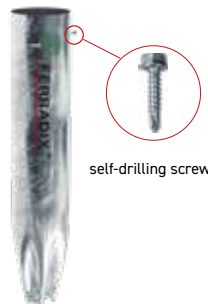
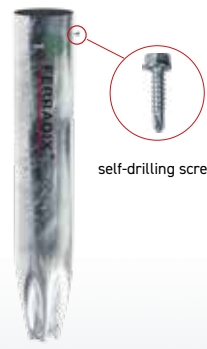
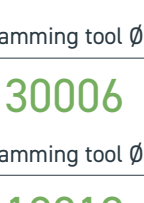


Ramming tool 90x90
Bore Ø 29

909029

Country

60/76/80x40

 60x400 200093-2	 60x600 200094-2	 60x800 200141-2	 Ramming tool Ø60 100126
 self-drilling screw 76x400 200108-2	 self-drilling screw 76x600 200081-2	 self-drilling screw 80x800 110264-1	 Ramming tool Ø76 130006  Ramming tool Ø80 110013
 self-drilling screw 80X40X400 200113-2	 self-drilling screw 80x40x600 200114-2	 self-drilling screw 80X40X800 200119-2	 Ramming tool 80x40 804029

Wood construction solutions

The Gothic

The Gothic support

for wodden posts

Height
above ground
to be specified
when ordering

Lag screws
Automatically steered
at an angle when
screwing
TORX star type:
15 cm hardwood
20 cm softwood

The plate
Designed to optimize
wood ventilation
(Venturi effect*)

FERRADIX® pile
CITY or ALPHA
Ø unique 60 mm

High of your choice
depending of the type of soil

300
400
600
800
mm

The Gothic pile
Ø 60 mm
600 mm
single length
To be adapted according to the
type of FERRADIX® pile

Guaranteed stability
The Gothic is well set up at the
bottom of the FERRADIX® pile

Hot-dip galvanized steel.

made by Sträb

* * Air circulation is accelerated by narrowing the circulation area.

The GOTHIQUE plate
is designed to optimize
wood ventilation
(Venturi effect).



For wooden post or mast
mast 90x90 mm
or Ø 90 mm
Round plate Ø 88 mm
Tube Ø 60x608 mm

110525



Short Gothic Support
for 90x90 mm mast
or Ø 90 mm Plate
round Ø 88 mm
Tube Ø 60x410 mm

110526



Long Gothic support
for mast Ø 120 mm or
100 x 100 mm Plate
square 96 x 96 mm
Tube Ø 60x608 mm

110522



Short Gothic Support
for Ø 120 mm or
100 x 100 mmmast
Plate square 96 x 96 mm
Tube Ø 60x410 mm

110524

Wood construction solutions

The Gothic

Mounting the wooden posts on the Gothic



Resistance test successfully done



 Gothic Stand Fork for mast 80x80 mm pipe Ø 60 x 604 mm on turntable 98x98 mm 110515	 Gothic Stand Fork for mast 100x100 mm pipe Ø 60 x 604 mm on turntable 98x98 mm 110518	 Terrace under-construction shoe 110519
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LOCKFIX

 LockFix Ø 60 200169	 LockFix Ø 76 200170	New!  LockFix Ø 80 200195	New!  LockFix Ø 90 200196
 LockFix 80 x 40 200192	New!  LockFix Ø100 200197		
 Cap for Ø 60 200193	 Cap for Ø 76 200194	 Firefighter key 200173	

FERRADIX® Superset

Sträb's coring



Made of specially hardened, galvanized steel.
Beveled base.
To be used with a compressor hammer. (see p. 38)

For Ø60 pile



Pipe Ø 63
Useful height 400

110083

For Ø76 pile



Pipe Ø 63
Useful height 770

110196



Pipe Ø 75
Useful height 400

110054



Pipe Ø 75
Useful height 770

110205



Pipe Ø 63
Useful height 900

110208



Pipe Ø 75
Useful height 900

110280



Pipe Ø 100
Useful height 800

110067



Ramming tool
Ø100 mm Bore Ø29

110069

New!

FERRADIX® Beta

For street furniture and

Ferradix
Beta

Beta Tool



New!

Delineator
support

Rapid Tool



Ø50x400 mm

Ø50x636 mm

200059

RT5040029

Ferradix® Beta

Ferradix®
Beta-Tool

Street furniture and tree
protection supports



Ø60x600 mm

Ø60x867 mm

B60600

BT6060029

New!

Fences:

Country Rapid

Rapid Tool



setting gauge for post spacing

200199



Ø80x400 mm

R80400



Ø80x400 mm

RT8040029



Post setting gauge for precise post spacing with height adjustment for sloping or uneven terrain



Ø80x600 mm

R80600



Ø80x600 mm

RT8060029



Ø80x800 mm

R80800



Ø80x800 mm

RT8080029



1.Wrecking Hammer

The WACKER BH 55, BH 65, and the Milwaukee DH2528H in action. Fast keystroke rate. Light striker, very high striking energy.

Wacker BH55, BH65



Fuel (Thermal)

Joules	55-65
Keystrokes /min. (Cps/min)	1300
Weight (kg)	24
Operational Power (kw)	1,6 (2,18 kw)
Tank capacity (l)	1,8

New Milwaukee DH2528H



Battery (electric)

Joules	64
Keystrokes /min. (Cps/min)	1300
Weight (kg)	29,6
Batterie	3.0 ou 6.0 Ah

Core drilling machine

The Duss Dia 303w and the Milwaukee MXF DCD150
The DUSS DIA303W handheld. Integrated spirit level, with its diamond bell adapted to the Ø of the FERRADIX®.

Duss Dia 303w



electric

Maximum Drilling	Ø202
speed	3
Weight (kg)	6,4
Absorbed power	2000 W
Anti-lock security	1

Milwaukee MXF DCD150



Battery (electric)

Maximum Drilling	Ø162 with CITY BOARD
speed	2
Weight (kg)	10,3
Absorbed power	1600 W
Anti-lock security	Auto stop

Hammer + Core Drill



Milwaukee 28x152 (fitting)

DH2528H



chisel according to fitting

upon request



sharp according to fitting

upon request



Wingbit according to side fitting

upon request



DUSS core drill + complete case

DIA303W



Water tank, 16 L pressurized, battery-powered on wheels

60160



CITY BOARD bell guide

DIA-VO



Black* Diamond Bell Ø 162, height 300 mm

162300B



Milwaukee Core Drill

MXF DCD150



Sprayer + 15L Tank

M18 BPFPH-0
M18 BFPF-Wst

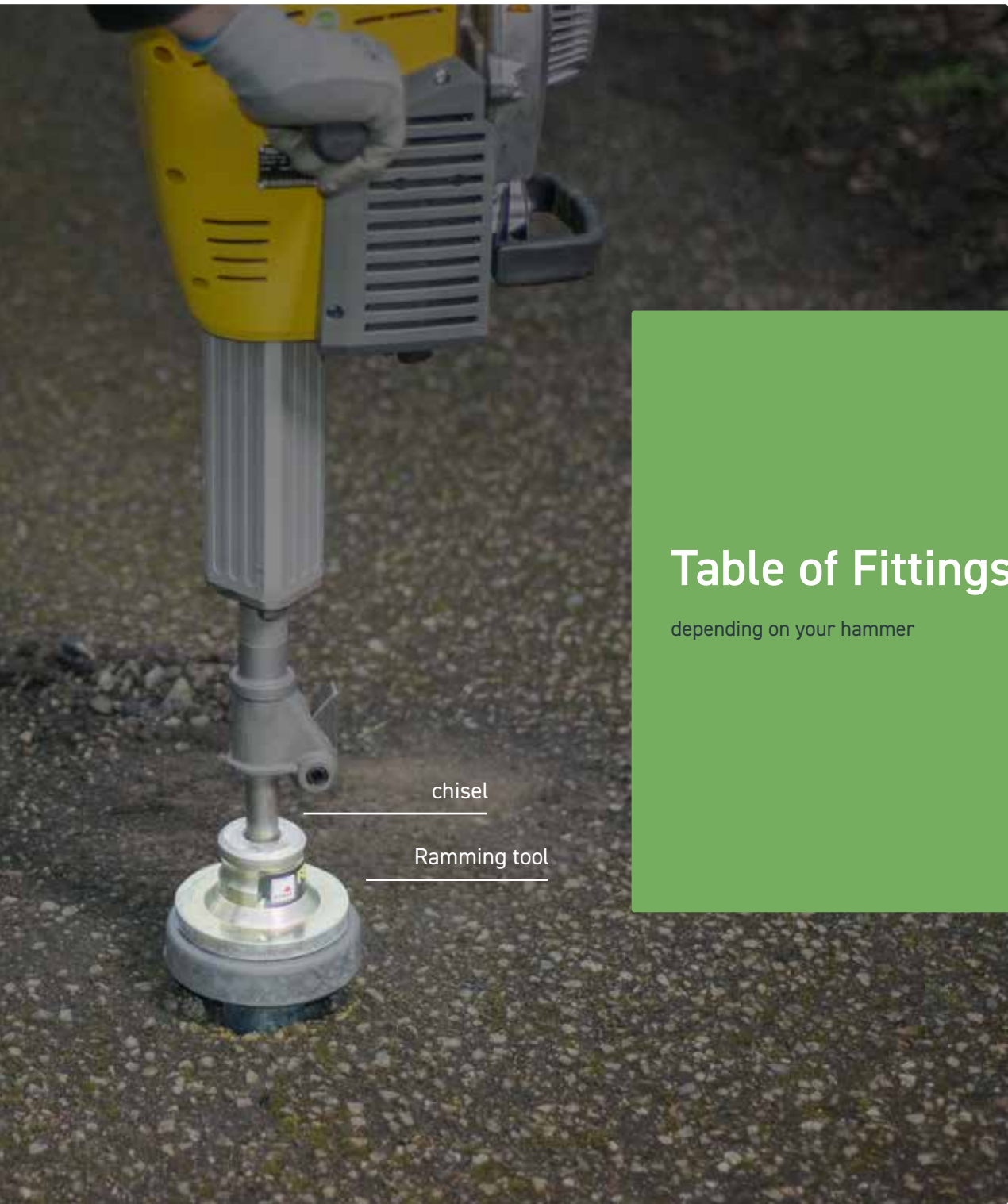


MFX DR255TV Drilling Frame



* Diamond core bits - Black series - are for use only in hard, compact** soils. Use prohibited in gravel.

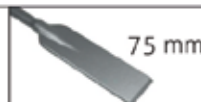
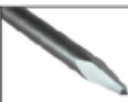
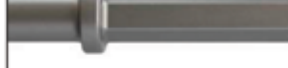
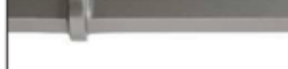
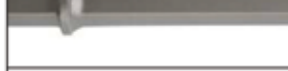
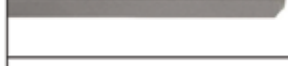
** Exposed concrete, thick asphalt, stone, interlocking paving stones, granite paving stones.



The mounted compressor hammer with its chisel in action.

Table of Fittings

depending on your hammer

	Shank end	 Chisel blunt	 75 mm Spade chisel	 Bull point chisel	
	Ø 25 x 75	110128	110100	45 cm: 2575450 80 cm: 110092	
	Ø 27 x 80	110104	110108	40 cm: 2780400 80 cm: 110106	
 DUSS	⬡ 22	110088	BM614	50 cm: SM610	
	⬡ 22 x 82	110110	110101	45 cm: 2282450 80 cm: 110093	
	⬡ 22 x 108	110113	110121	45 cm: 22108450	
	⬡ 25 x 108	110107	110102	40 cm: 25108400 80 cm: 110094	
	⬡ 28 x 152	110099	110103	45 cm: 28152450 80 cm: 110095	
	⬡ 28 x 160	110105	110138	45 cm: 28160450	
	⬡ 28,7	110112	110136	50 cm: 29150500	
	⬡ 30 + Ø 24 x 55	110111	110120	40 cm: 3024400	
	⬡ 32 x 152	110118	110122	40 cm: 32152400	
	⬡ 32 x 160	110119	110124	50 cm: 32160500	
Stomping Plate 150x150					
	Shank end	⬡ 25 x 108	Ø 27 x 80	⬡ 28 x 160	⬡ 30 + Ø24x55
	Réf :	110085	110072	110061	110065

THE FERRADIX® GIRAFFE

Verticality made by Straeb

Spirit level integrated

Stainless steel sleeve

Ø 76
without sleeve

Ø 60
without sleeve

Stainless steel tube

1,20 m

80x40

Reference: 110500

Reference: 110512

Ideal for driving the CITY&Alpha and leveling

In case of not use , we can put it on both

Blanking plate

200117

M12 plate
J11-J12 beacon

110178

Bench plate
central light

110199

Swivel plate
Selectable section

sur commande

Mounting set
40 x 40 rotating 360°
for Ø 60

1104040

Reducing kit
Ø 60 à Ø 40

110140

Reducing kit
Ø 60 à Ø 50

110152

110480

Fence support for posts
Ø 40 - 44 mm

110529

RAL or stainless
steel trim plate

OF YOUR
CHOICE

Plate and post
same RAL

OF YOUR
CHOICE

standard colours
RAL

OF YOUR
CHOICE

3020 5010 6005 8017 3004

Extraction tool for piles
and pipes

110411

Centering bell Ø 60
for core drilling by
hammer drilling

200095F

Centering pot Ø 76
for core drilling by
hammer drilling

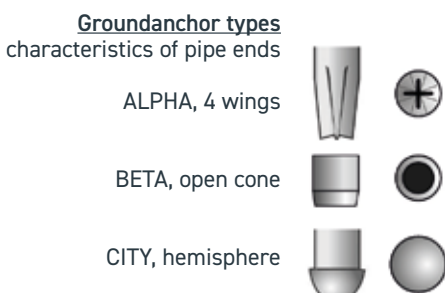
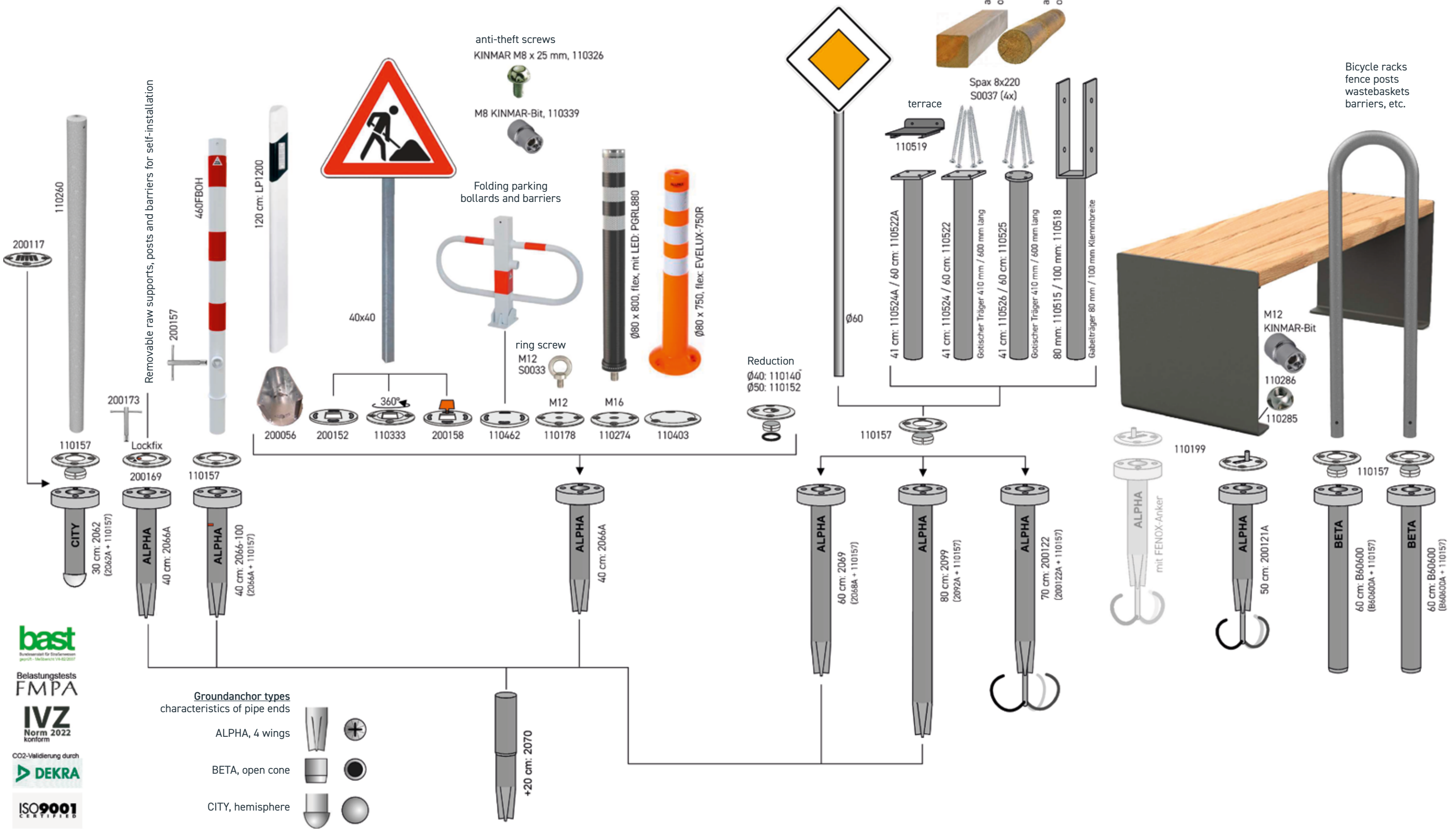
200107F

Pot chisel
Ø 29 mm

110434

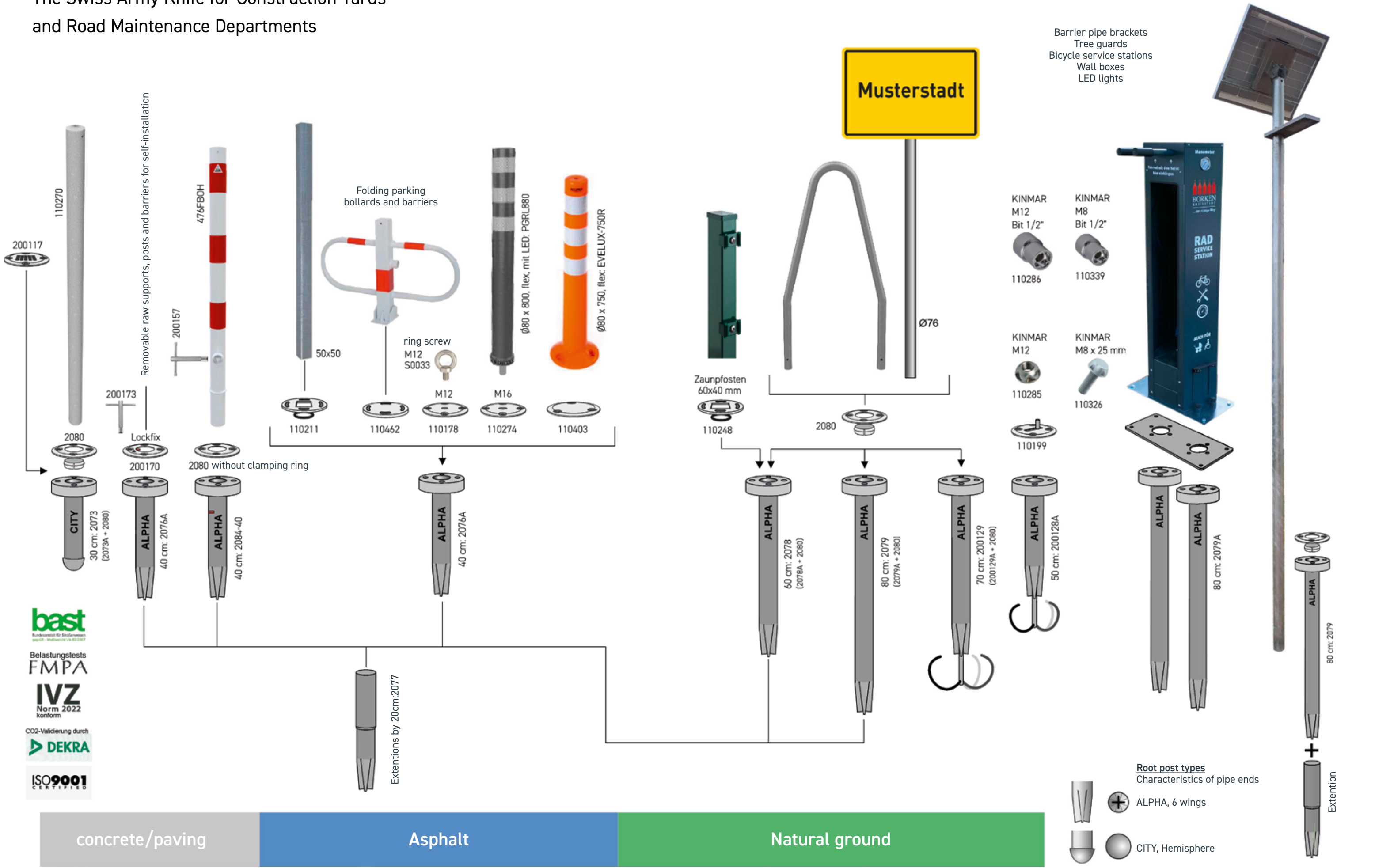
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