

ZABAG[®]

SECURITY ENGINEERING



THE NEXT LEVEL OF SECURITY



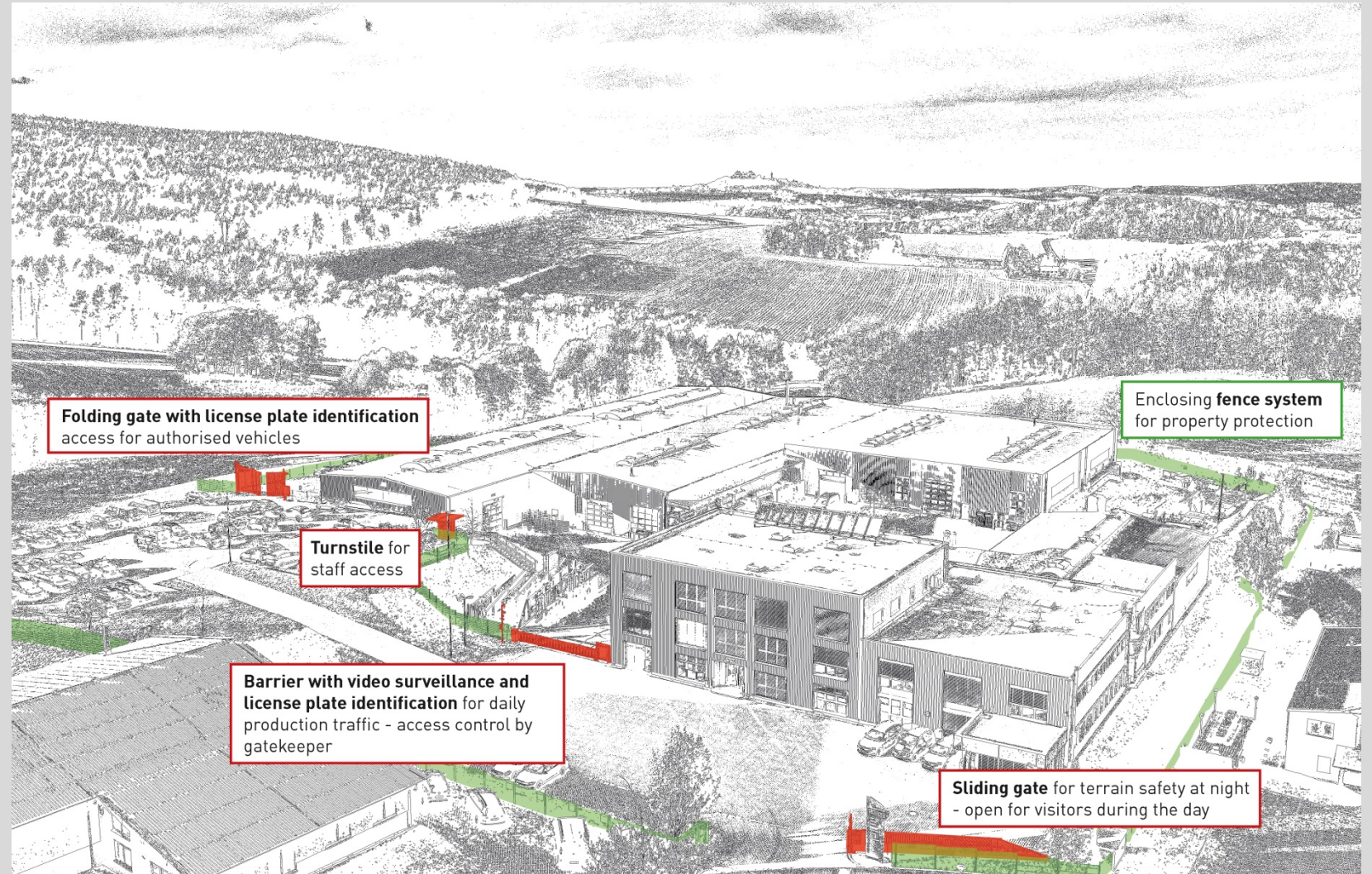
HOW SECURE IS YOUR PREMISES?





PERIMETER PROTECTION

Secured vehicle and
personal access incl.
fencing and fence
detection



PRODUCTS – Sliding gates



CANTILEVERED SLIDING GATES

KOMBI, KOMBI ALU + BASIC KOMBI

TRACKED SLIDING GATES

TERRA



PRODUCTS – Sliding gates



- Examples of application:
 - Municipal facilities
 - Archives, museums
 - Industry
 - Trade (Food Defense)
 - Logistic centres
 - Manufacturing industry
 - Airports
- Scope of application:
 - Access/premises security at night - open for daytime traffic.

PRODUCTS – Telescopic sliding gates



CANTILEVERED TELESCOPIC SLIDING GATES
KOMBI TZ

TRACK-MOUNTED TELESCOPIC SLIDING GATES
TERRA TZ



PRODUCTS – Telescopic sliding gates



- Examples of application:
 - Industry
 - Trade (Food Defense)
 - Logistic centres
 - Manufacturing industry
 - Airports

- Scope of application:
 - Very limited retraction space nevertheless, a large access road must be secured

PRODUCTS – Bi-folding gates



BI-FOLDING GATES MAPO FGZ

Fast as a barrier, secure like a gate





Bi-folding gates MAPO FGZ

- Special feature:
sluice function
- Examples of application :
 - Areas with increased security
 - Airports
 - Police
 - Embassies



Bi-Folding gate MAP0 FGZ

- Special feature:
rail track gate
- Examples of application:
 - Municipal railways
 - Industry
 - Logistics
 - Automotive
 - Port security



Bi-folding gate MAP0 FGZ

- Fast/separate control entry and exit
- Examples of applications:
 - Trade
 - Logistics

PRODUCTS – Bi-folding gates



2-leaf bi-folding gate MAP0 FGZ



- High frequency
- Example of application:
 - City depot

PRODUCTS – Bi-folding gate



Bi-folding gate MAP0 FGZ



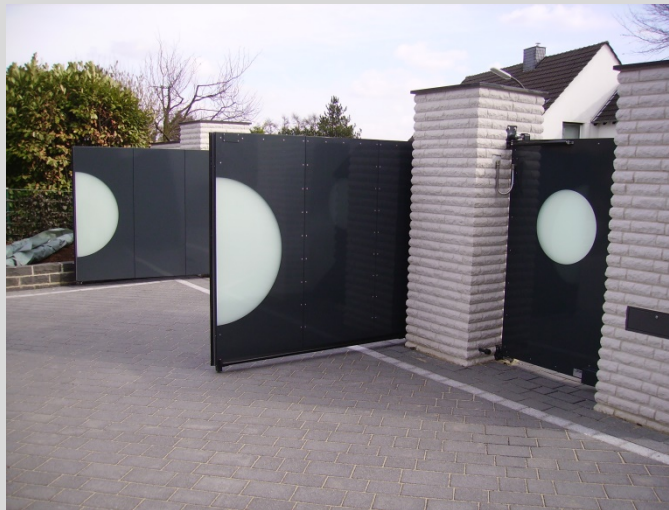
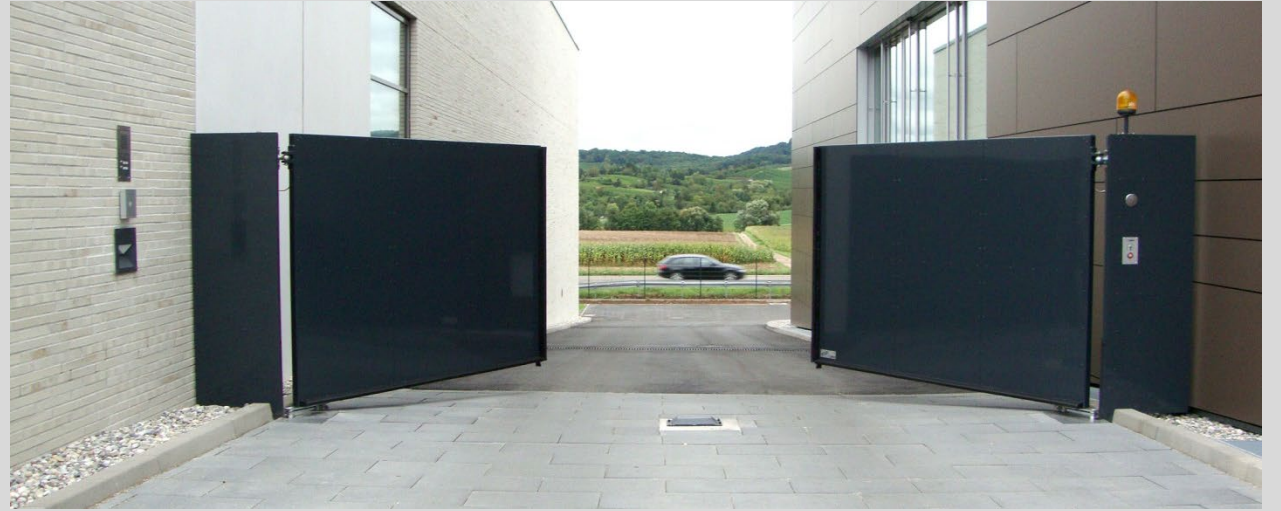
- Special feature: special infill
- Example of application:
 - Private sector

PRODUCTS – Swing gates



SWING GATES MAPO

Safe, functional and reliable





Swing gate MAP0

- special feature: 4 m high
- Example of application:
 - Trade



Swing gate MAP0

- special feature:
 - Special infill
 - Special height
- Examples of application :
 - Indoor area
 - Transit area
 - Industry

PRODUCTS – Barriers



BARRIERS – TSZ

Regulated and controlled passage for cars and trucks



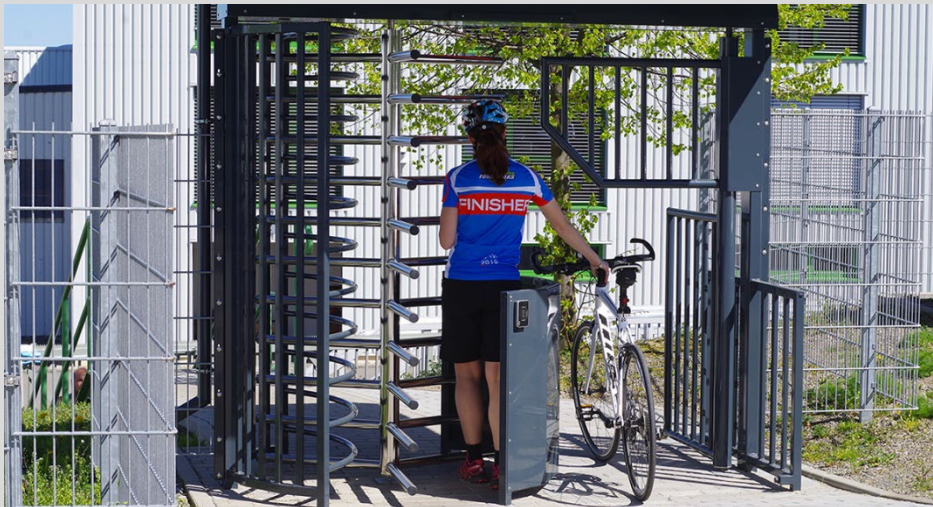
PRODUCTS – Separation of persons



TURNSTILES

reliable person separation

Turnstile ZENTRA available in various and individual options



PRODUCTS – Separation of persons



- Examples of application:
 - Industry
 - Trade (Food Defense)
 - Logistic centres
 - Manufacturing industry
 - Airports

- Scope of application:
 - People detection
 - Control of pedestrian flows
 - Targeted denial of access

PRODUCTS – Separation of persons



Turnstile with separate bike entry:
swing gate exclusively for bicycles

- Example of application:
 - For companies with a particularly high number of cyclists among their employees

PRODUCTS – Separation of persons



Examples of application:

- Single turnstile with adjoining multifunctional door
- For the passage of wheelchair users
- Type VERSO, selectable opening, 90° inwards or outwards

HIGH SECURITY – High security solutions



HIGH SECURITY

- Impact resistance
- Attack and bullet resistance
- RC2 turnstile



HIGH SECURITY – High security solutions



HIGH SECURITY

Certified products

- High security bollard Z-HSP 500
- High security barrier Z-HSTS 8000
- Shallow mounted bollard Z-HFFP 273
- Automatic bollard Z-HSP 273



HIGH SECURITY – certified products



For the protection of persons in particularly sensitive areas



Contracting Client:
ZABAG Security
Engineering GmbH
Am Wassenwerk 38
09579 Grünhainichen
Germany

Certificate of passed Barrier Testing Programme

IWA 14-1:2013, N3E, 48 km/h, 19 th July 2017, CTS-Test No: 18763	
Type of product:	Bollard, „Z-HSP 500“
Vehicle penetration:	0.64 m
Mass [Target]:	24000 kg (±400 kg)
Mass [Test]:	23957 kg
Impact speed [Target]:	48.0 km/h (47.0 km/h – 51.0 km/h)
Impact speed [Test]:	47.9 km/h
Angle:	90 °
Major debris:	No
Kinetic energy:	2121 kJ
Observations	
Vehicle restrained:	yes
Vehicle immobilized:	yes
Performance Rating IWA 14-1:2013	Moveable Bollard V/24000[N3E]/48/90:0.6
	

Sincerely


Dipl.-Ing. Peter Schimmelpfennig
(Managing Partner)

Amelunxenstraße 30, 48167 Münster, Germany

www.crashtest-service.com

HIGH SECURITY – certified products



High security barrier
Z-HSTS 8000




Certificate of passed Barrier Testing Programme



Contracting Client:

ZABAG Security
Engineering GmbH
Am Wasserwerk 38
09579 Grünhainichen
Germany

Technologies Creation
Pte Ltd
22 Sin Ming lane
#08-85/86 Midview City
Singapore 573969

Type of Product:	Gate, "Z-HSTS-8000"
Test Standard:	ASTM F2656/F2656M-18a IWA 14-1:2013
Test Standard Classification:	ASTM: C730 IWA: N2B-48 km/h
Test Date:	05-Dec-2019
Vehicle Restrained:	Yes
Vehicle Immobilized:	Yes
Test Vehicle Kinetic Energy at Impact:	679 kJ
Penetration Rating ASTM:	P1 (0.3 m)
Performance Rating IWA:	Gate V/7200[N2B]/48/90:0.4
Only valid in connection with CTS-Test Report No.:	12467-3415-19264
Sincerely  Dipl.-Ing. Peter Schimmelpennig (Managing Partner/Head of Laboratory)	If completely changed this certificate will be replaced by certificate No. TC-12467-3415-19264-2.

Certificate No.: TC-12467-3415-19264

19-Dec-2019

Amelunxenstraße 30, 48167 Münster, Germany

www.crashtest-service.com

HIGH SECURITY – certified products



Shallow mounted bollards Z-HFFP 273



Certificate

of passed Barrier Testing Programme



Certificate No.: TC-12467-3550-19401
Date of certification: 01-JULY-2020

Contracting Client:
ZABAG Security Engineering GmbH
Am Wasserwerk 38
09579 Grünhainichen
Germany

Type of Product:	Bollard, "Z-HFFP-273"	
Test Standard:	IWA 14-1:2013	
Test Standard Classification:	N3D - 80 km/h	
Test Date:	18-JUNE-2020	
Vehicle Restrained:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Vehicle Immobilized:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Vehicle advanced beyond Barrier:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Test Vehicle Kinetic Energy at Impact:	3043 kJ	
Performance Rating:	Bollard V12000(N3D)/80/90.5.4	
Only valid in connection with CTS-Test Report No.:	12467-3550-19401	
If completely changed this certificate will be replaced by certificate No.:	TC-12467-3550-19401-2	

Sincerely

Dipl.-Ing. Peter Schimmelpfennig (Managing Partner/Head of Laboratory)

HIGH SECURITY – certified products



Automatic bollards Z-HSP 273



Certificate

of passed Barrier Testing Programme



Certificate No.: TC-12467-3550-19401
Date of certification: 01-JULY-2020

Contracting Client:
ZABAG Security Engineering GmbH
Am Wasserwerk 38
09579 Grünhainichen
Germany

Type of Product:	Bollard, "Z-HFFP-273"
Test Standard:	IWA 14-1:2013
Test Standard Classification:	N3D - 80 km/h
Test Date:	18-JUNE-2020
Vehicle Restrained:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Vehicle Immobilized:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Vehicle advanced beyond Barrier:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Test Vehicle Kinetic Energy at Impact:	3043 kJ
Performance Rating:	Bollard V/12000(N3D)/80/90.5.4
Only valid in connection with CTS-Test Report No.:	12467-3550-19401
If completely changed this certificate will be replaced by certificate No.:	TC-12467-3550-19401-2

Sincerely

Dipl.-Ing. Peter Schimmelpfennig (Managing Partner/Head of Laboratory)

HIGH SECURITY – High security solutions



- Examples of application:
 - federal and state offices of criminal investigation
 - Police headquarters
 - Court buildings
 - Airports
 - Nuclear power plants
 - IT centres
 - Correctional facilities
 - Forensic clinics, institutions and laboratories
 - Governments, ministries and embassies
 - Authorities and banks
 - Military facilities

AREA SYSTEMS



AREA SYSTEMS

Optimal area protection with monitoring systems



AREA SYSTEMS – Video security



VIDEO SECURITY

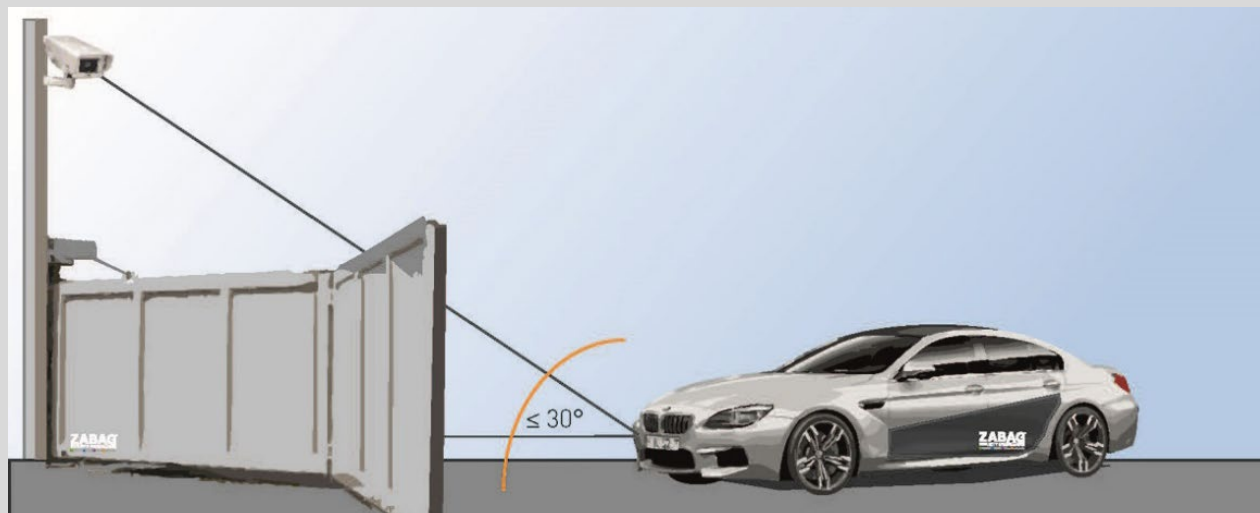
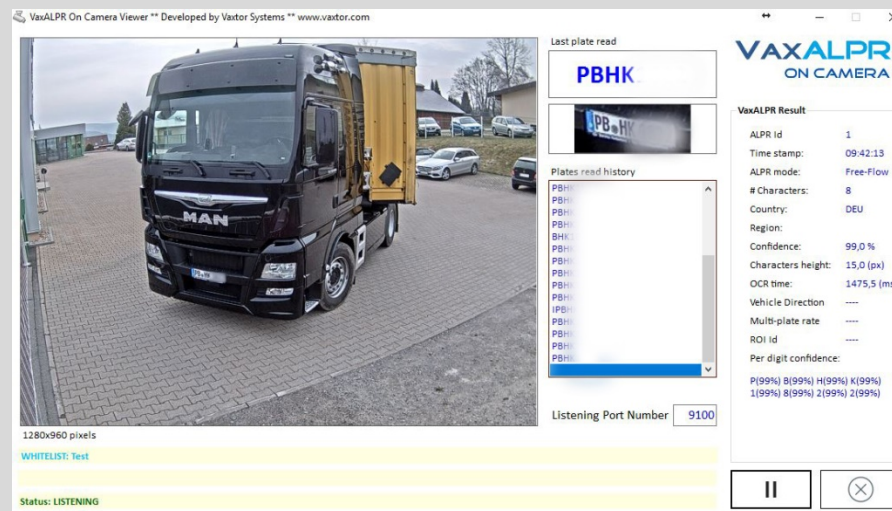
Optimal area protection with video surveillance systems



ZABAG®
SECURITY ENGINEERING
■■■■



To permit access only to authorized vehicles



AREA SYSTEMS – Wide range reader



WIDE RANGE REEADER FEIG Electronic

- ✓ Complete system of hardware and software, as combination of UHF wide-range reader with integrated antenna and access controller
- ✓ Integrated traffic light (red/green)
- ✓ Access repetition blocking (anti-passback)
- ✓ Simultaneous monitoring of up to 2 lanes with reading ranges of up to 10 m
- ✓ Management of over 4,000 access authorisations
- ✓ PoE and USB interface





VEHICLE ACCESS CONTROL RECOMMENDED MOUNTING HEIGHT

FEIG
ELECTRONIC

Cars and Motorbikes only



Lorries and Busses only



Cars, Lorries and Busses



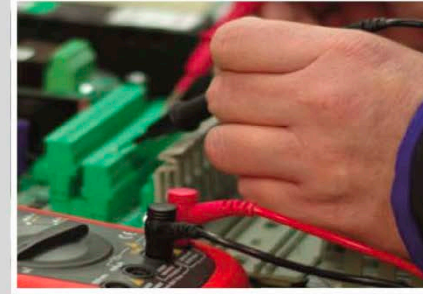
AREA SYSTEMS – access control



GSM Gate Control Pro

Remote control for elektrical gates and barriers via mobile communications





ENGINEERING

security concepts
special constructions
project planning &
engineering services
product development
& research

HIGH SECURITY

high security solutions
resistance classes
break through prevention
anti-ram barriers
certified security bollard

AREA SYSTEMS

video security systems
access control
license plate recognition

SERVICE

customer service
testing & maintenance
trainings

PRODUCTS

special solutions
sliding gates
telescopic sliding gates
swing gates
bi-fold speed gates
turnstiles
barriers
bollards
control columns

ZABAG – EVERYTHING FROM ONE SOURCE





- head quarter and production in Germany
- About 110 qualified employees
- Worldwide distribution in 30 countries



ZABAG – YOUR PERSONAL CONTACT



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