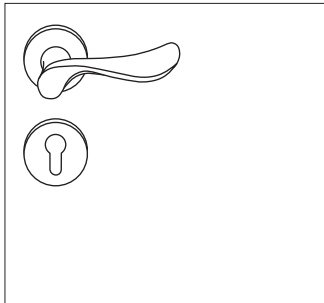


Explanations

Specifications	584
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Sample specifications

Standard lever handle furniture



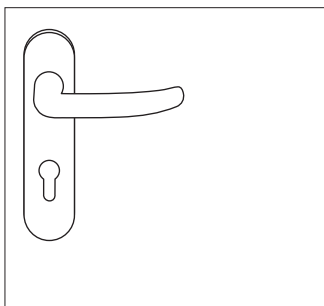
FSB lever handle furniture
Aluminium anodised
with 8 mm FSB Stabil spindle
for doors 40 mm thick

Bearings provided by lever
handle roses with lugs and
sliding bearings in glass-
fibre-reinforced black plastic

Escutcheons with
keyways

FSB moulded-to-the-hand
design 1020
Designed by Johannes Potente
Lever handle rose FSB 1131
Escutcheon FSB 1735

AGL® heavy-duty furniture



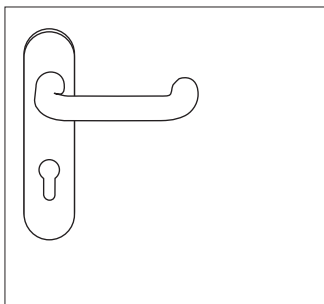
FSB lever handle furniture
AGL Stainless Steel with
8 mm FSB Stabil spindle for
doors 40 mm thick

Handles permanently supported
in precision-fit, maintenance-
free compensating bearings on
FSB backplates 185 x 45 mm

with reinforcement lugs,
concealed fixing on both sides
Fixing centres 72 mm

FSB design 7223 04
Based on a design by Max Bill
reworked by Johannes Potente

FSB lever handle furniture



FSB lever handle furniture
for smoke and fire doors
to DIN 18 273

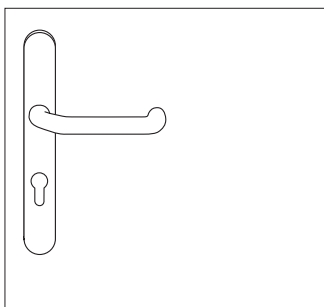
Aluminium anodised
with 9mm FSB Stabil spindle
for doors 40 mm thick

Handles permanently attached
to FSB backplates 185 x 45 mm

supplied with reinforcement
lugs, concealed fixing on
both sides
Fixing centres 72 mm

FSB design 7646 04
original FSB works design

Lever handle furniture for framed doors



FSB lever handle furniture
for framed doors in
aluminium anodised
with 8 mm FSB solid spindle
for doors 40 mm thick

Handles permanently attached
to oval backplates 245 x 35 mm

with reinforcement lugs,
sliding bearings in black pla-
stic, concealed fixing on both
sides Fixing centres 72 mm

FSB design 7816
original FSB works design

Recommendation

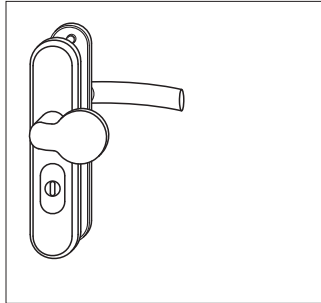
In describing our products at such length, we have sought to stress their distinctive “personalities”, i.e. the factors that set them apart from their market rivals.

Whether you are a briefing architect, a consultant joiner, a builders hardware whole-saler or an “enlightened” enduser,

to ensure an FSB product is absolutely right for a given door or window you should heed all the specific “traits” accorded that product.

Indicated on these two pages are examples of how to ensure that the FSB products chosen are the most suitable for German customers.

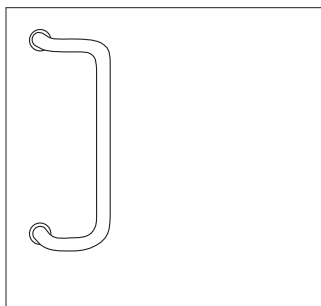
Security furniture



FSB security furniture
Security Class 2-ZA
aluminium . . . anodised
FSB multilayer construction
technique
with cylinder guard for projec-
tions of 8 - 16 mm
FSB Stabil spindle secured
in neck of knob
Fixing distance 72 mm EPC

FSB design 7384 5510
Knob and lever handle
Designed by Hartmut Weise

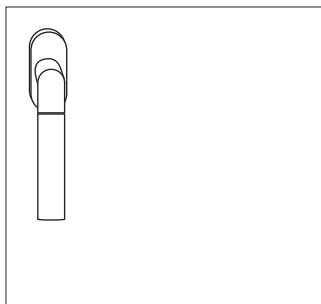
Pull handle (door pull)



FSB pull handle in tubular
material
e.g. brass polished waxed
Length of handle 350 mm
Handle diameter 30 mm
with support roses for greater
stability on the face of the door
Back-to-back fixing 1

FSB design 6662 38

Window handle

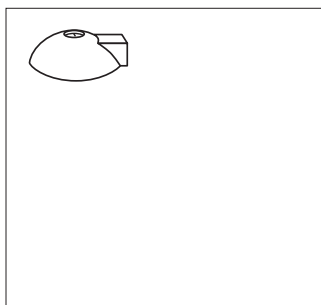


FSB window handle
cast aluminium and
grey/black thermoplastic
RAL-certified click-stop
mechanism
enduringly smooth action
audibly clicks into position
all-over basket-arch rose

Concealed fixing
with reinforcement lugs,
diameter 10 mm

FSB design 3778
produced by
Christoph Ingenhoven

Door stop



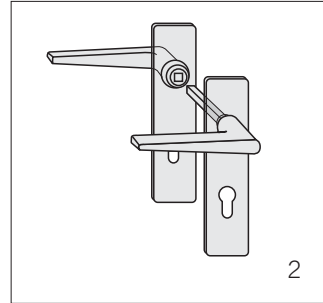
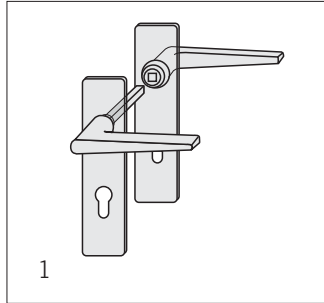
FSB floor-fitted door stop
stainless steel . . .
diameter 70 mm
complete with fastenings

FSB design 3884 00
original FSB works design

Handing details

Lever handle furniture for doors DIN l.h., inward opening

Male handle points right, female handle points left

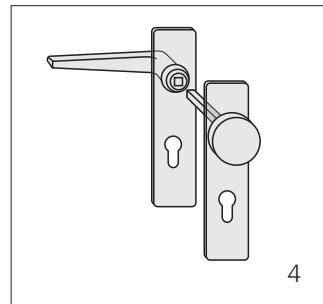
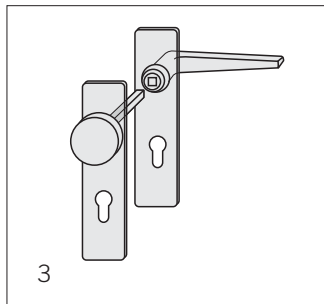


Lever handle furniture for doors DIN r.h., inward opening

Male handle points left, female handle points right

Lever furniture with dead knob for doors DIN l.h., inward opening

Female handle points left

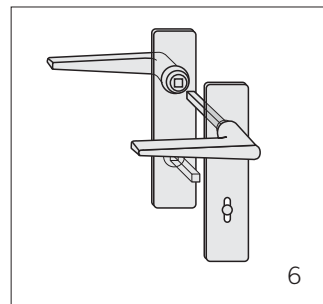
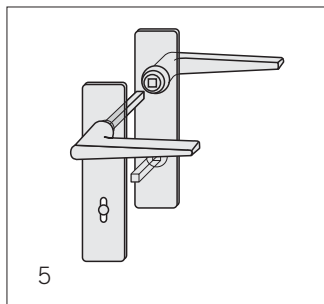


Lever furniture with dead knob for doors DIN r.h., inward opening

Female handle points right

Bathroom/WC furniture for doors DIN l.h., inward opening

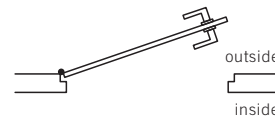
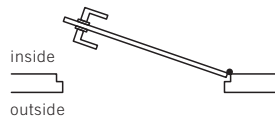
Male handle points right, with WC perforation, female handle points left, with thumbturn



Bathroom/WC furniture for doors DIN r.h., inward opening

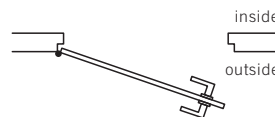
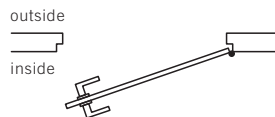
Male handle points left, with WC perforation, female handle points right, with thumbturn

DIN left hand inward opening



DIN right hand outward opening

DIN right hand inward opening



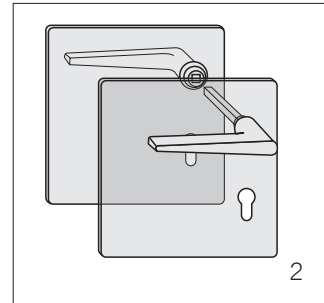
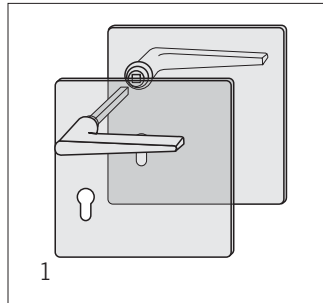
DIN left hand outward opening

Explanation:

The German specifications DIN right hand respective DIN left hand refer to the positioning of the things on the opening face of the door.

Lever handle furniture for doors DIN l.h., inward opening

Male handle points right, female handle points left

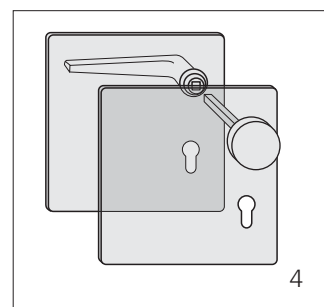
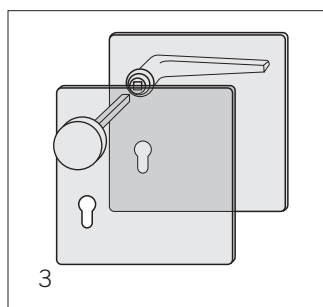


Lever handle furniture for doors DIN r.h., inward opening

Male handle points left, female handle points right

Lever furniture with dead knob for doors DIN l.h., inward opening

Female handle points left

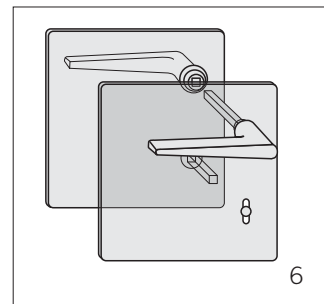
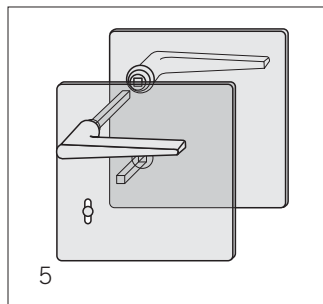


Lever furniture with dead knob for doors DIN r.h., inward opening

Female handle points right

Bathroom/WC furniture for doors DIN l.h., inward opening

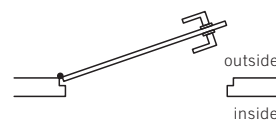
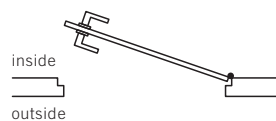
Male handle points right, with WC perforation, female handle points left, with thumbturn.



Bathroom/WC furniture for doors DIN r.h., inward opening

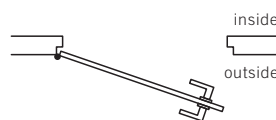
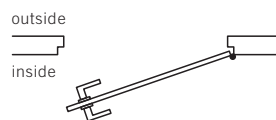
Male handle points left, with WC perforation, female handle points right, with thumbturn.

DIN left hand inward opening



DIN right hand outward opening

DIN right hand inward opening



DIN left hand outward opening

Doors are either right or left hand, relative to which way they open. When ordering lever furniture with dead knob or if you require the spindle element to be located on the outside, you should specify left or right hand.

About product liability

Under the Product Liability Act, FSB is liable for damage caused by faulty products, the precondition being that, in the selection, installation and use of the goods, all the applicable regulations set down in the FSB manual shall have been complied with.

We would additionally like to point out that what the law defines as product liability and what the end user actually expects of a product can be two radically different things. Door and window handles, after all, are in the first instance “tools” for opening and closing doors and windows. However beautiful they might be, such tools still remain subject to the laws of wear and tear. Though prime materials are used, production is organised to ISO 9001, and the company has successfully undergone an EU “eco-audit” (1996) and been certificated to ISO 14001 (1997), the laws of physics will inevitably manifest themselves to the end user in the form of wear and tear.

The main definitions and regulations are recapitulated in the following.

1.0 Product definitions

1.1 Lever handles and accessories

Lever handles and their accessories are implements with which to open and close doors. They do this in concert with the door frame, the door's hinges, the door leaf, the lock, and the cylinder, and all these components need to be properly synchronized. It's no use trying to use a lever handle to open a door if the door is locked, for instance, the only exception to this being the special mechanisms featured on panic doors.

1.2 Tubular handles

The same applies to tubular handles. The door frame, door hinges, door leaf and other closing devices such as door closers need to be compatible with one another.

1.3 Window handles and accessories

Again, window handles are but one element of the window. The method of closure will generally determine which type of handle is appropriate.

2.0 Improper use

Lever handles, pull handles and window handles and sliding ventilators are subject comparatively frequently to improper use, and this can lead sooner or later to damage for which the manufacturer can no longer be held responsible. Typical examples:

- Lever handles are used as supports, especially when on doors at the base of steep stairs.
- Doors are used as a sort of roundabout by children, the handles serving as the main source of support.
- In the absence of door stops, lever handles and pull handles bang against the wall.
- Lever handles and pull handles are used to hang heavy objects on.

3.0 Product Performance

Notions of product performance are only codified in norms to a very limited degree. For the most part, they are the up-shot of many years of experience and are by now common property in the builders hardware trade. FSB keeps faith with these general informal standards. The norms listed below apply for special performance requirements.

- **DIN 18 255**
This norm sets general standards for door furniture and accessories.
- **DIN 18 273**
This norm sets out limits specifically for firecheck and smoke stop doors.
- **DIN 18 257**
This norm lays down minimum requirements for security furniture.

FSB products are constantly evolving, and production is subject to continuous quality control. We reserve the right to make technical modifications.

4.0 Product maintenance

Most FSB products are “implementations” for the opening and closing of doors and windows. Sooner or later, depending on what they are made of and where they are fitted, they will inevitably begin to show signs of wear. The properties of the various materials can be summarized as follows:

4.1 Aluminium

Aluminium has performed admirably in everyday use for many decades. The metal is protected by a tough anodised coating. Surface scratch marks in no way impair the operating efficiency of the furniture but simply denote the passing of time.

4.2 AluGrey

AluGrey is new to the FSB programme and boasts a greater surface hardness and resistance to wear than standard aluminium. On account of the above-mentioned properties, noticeable signs of use are slow to materialise under normal circumstances but, even so, cannot be ruled out completely in the long term, though the functioning of the hardware remains unaffected whatever the case.

4.3 Stainless steel

Stainless steel is commonly regarded as being indestructible. In fact, even stainless steel can develop scratches and traces of rust. This latter is the phenomenon known as 'flash rust', which can be removed with the aid of standard cleansing agents.

4.4 Brass

Much has already been said in the FSB manual regarding the properties of brass. Whereas aluminium is more or less a pure metal, brass is an alloy with tendencies towards corrosion. We would therefore like to emphasize once again here that only regularly cleaned brass components without lacquer retain their initial allure. Once the coating of the lacquered version has been breached, unsightly corrosion sets in, and this can only be reversed in our factory after a laborious stripping operation.

4.5 Aluminium + colour

Coloured FSB lever handles are generally given a flexible colour membrane approx. 250 microns thick that is long-lived given correct use. Contact with sharp objects may lead to some denting.

4.6 Upkeep

All FSB products are largely maintenance-free. Once fitted, however, FSB nevertheless recommends checking at regular intervals that they are properly positioned and that screw fastenings are secure. Water and a soft cloth only should be used to keep FSB hardware clean.

5.0 Requisite information and instructions

Relevant information and instructions can be gleaned from the following material:

For stockists, architects and consultants: catalogues with all the necessary detailed descriptions.

For installers: besides catalogues - fitting instructions and templates and, where necessary, technical drawings.

For end users: fitting instructions, templates, and instructions for use and - in specific instances - care, all included with products.

To ensure the correct functioning of door and window furniture,

architects and designers are urged to bear in mind where and under what conditions the furniture is going to be in use and to select accordingly. Any queries should be addressed to the trade wholesalers, the FSB External Service, or FSB itself.

the sales trade is urged to rigorously double check the specifications provided by architects, designers and clients so as to ensure the compatibility of these specifications with those of the furniture selected.

installers are urged to make sure they receive from the sales trade all the products information and fitting and maintenance instructions needed for them to be able to fit the furniture correctly and pass on any relevant information to the customer.

Sales aids

You may be wondering why it is we have so much to say on the subject of sales aids. Well, the fact is that we in no way regard this as a peripheral issue. Builder's hardware, after all, is not replaced that frequently and is expected to perform day in, day out for a great many years. Opting for the wrong product – wrong in terms of quality, design or, indeed, profit margin – can take a long time to put right. Which is why it is important to support the decision-making process from an early stage so as to be able, at the decisive moment, to guide the customer's aspirations towards the right product. The enlightened purchaser and customer expects to find sensible displays, readily assimilable catalogue material and cogent sales arguments at the "point of sale". FSB has always endeavoured to oblige.

1. Displays and specimen boards

We at FSB do not go along with turning display areas into supermarket-type affairs and confronting the end-user with a hotchpotch of hardware. For this reason, we have developed an all-in display set-up which is so variable that adapting it to a given spatial configuration is no trouble.

As a means of keeping key elements of the FSB programme well apart from competitors' offerings even in the most cramped of spaces, we have additionally come up with a three-sided rotating merchandiser. This allows upwards of 35 FSB products to be excellently exhibited on half a square metre of floor space at most. There is also a special rotating merchandiser for FSB's wide range of main entrance door fittings.

Our specimen boards sport our corporate shade of grey. Metal of all colours stand out well against this background. Fittings are combined with special lock mechanisms so the customer can get a feel of how they work in practice. Specimen boards come in both standard and custom sizes.

For architects, however, specimen boards are often not enough. Instead, they want to see how the fitting acts in conjunction with lock and cylinder on a small door element. We supply specimen blocks for just this purpose.

We have also developed a bespoke specimen case for all those who like (or have) to travel with the FSB programme. It can be bought or, in individual instances, hired. FSB's Field Service will explain the modalities.



2. Manuals and Prospectuses





As you may have noticed, for many years now FSB has been putting a lot of effort into its manuals and prospectuses (a case in point being what you are reading now). And, to our great joy, the trade and public both definitely appear to have appreciated our efforts. This has inspired us to further expand our range of written sales aids and informational material.



3. Sales arguments

All retailers know (and dread) the ritual customer question that goes “And what would you recommend?” The temptation is to respond with platitudes such as “Beauty is in the eye of the beholder” or by attempting to explain what is currently in fashion or selling particularly well. But are these good or at least adequate sales arguments?

We don’t think so. And, in the light of this, we have published a whole series of books - the FSB Edition - that delve into virtually every aspect of “handle culture”. Anyone wishing to extend his or her repertoire of sales arguments is urged to consult them. Apart from anything else, they set forth the best sales argument of all, the “Four Rules of Grip” identified by FSB, which allow the end-user to adopt a hands-on approach to deciding which handle to buy:

-  Thumb rest
-  Forefinger furrow
-  Support for the ball of the thumb
-  Gripping volume



German Standards (DIN)

Without laying any claim to exhaustiveness, set out below are a selection of German Industrial (DIN) Standards with a bearing on doors and windows:

DIN 107
Building construction; identification of right and left side

DIN 4102 - Supplement 1
Fire behaviour of building materials and components; tables of contents

DIN 4102-5
Fire Behaviour of Building Materials and Building Components; Fire Barriers, Barriers in Lift Wells and Glazings Resistant against Fire; Definitions, Requirements and Tests

DIN 4102-13
Fire behaviour of building materials and elements; fire resistant glazing; concepts, requirements and testing

DIN 4102-18
Fire behaviour of building materials and components; fire barriers, verification of automatic closure (continuous performance test)

DIN 1080-1
Terms, Symbols and Units Used in Civil Engineering; Principles

DIN 18 055
Windows; air permeability of joints, water tightness and mechanical strain; requirements and testing

DIN 18 082-1
Fire barriers; steel doors T 30-1; Construction type A

DIN 18 095-1
Smoke control doors; concepts and requirements

DIN 18 095-2
Smoke control doors; type testing for durability and leakage

DIN 18 100
Doors; wall openings for dimensions in accordance with DIN 4172

DIN 18 101
Doors; doors for residential buildings; sizes of door leaves, position of hinges and lock, interdependence of dimensions

DIN 18 111-1
Door frames; steel door frames; standard door frames for rebated doors

DIN 18 250
Locks; mortice locks for fire barriers; single latch bolt lock

DIN 18 251
Locks; mortice locks for doors

DIN 18 252
Locking cylinders for door locks; terminology

DIN 18 254
Profile cylinders with pin tumblers for door locks; dimensions, materials, requirements, testing, labelling and marking

DIN 18 255
Building hardware; door handles, door plates and door roses; concepts and definitions, dimensions, requirements

DIN 18 257
Building hardware; security door plates, concepts and definitions, dimensions, requirements, testing and labelling

DIN 18 268
Building hardware; hinges for doors; reference-lines for hinges

DIN 18 273
Building hardware; lever handle units for fire doors and smoke control doors; concepts and definitions, dimensions, requirements and testing

DIN 18 357
Contract procedure for building works; Part C: General technical specifications for building works; mounting of window and door fittings

DIN 18 361
Construction contract procedures (VOB) - Part C: General technical specifications in construction contracts (ATV); Glazing

DIN 32 617
Letter-boxes; requirements, testing and arrangement

DIN 58 125
School buildings, structural requirements for the prevention of accidents

DIN 68 706, Part 1
Plywood-doors; concepts, priority sizes, construction characteristics for interior doors

DIN EN 179
Building hardware - Emergency exit devices operated by a lever handle or push pad - Requirements and test methods

DIN EN 1125
Building hardware - Panic exit devices operated by a horizontal bar - Requirements and test methods

DIN EN 1303
Building hardware - Cylinders for locks - Requirements and test methods

DIN V ENV 1627
Windows, doors, barriers - Anti-burglar devices - Requirements and classification

DIN V ENV 1628
Windows, doors, barriers - Anti-burglar devices - Test methods for establishing resistance under static loads

DIN V ENV 1629
Windows, doors, barriers - Anti-burglar devices - Test methods for establishing resistance under dynamic loads

DIN V ENV 1630
Windows, doors, barriers - Anti-burglar devices - Test methods for establishing resistance to manual attempts at intrusion

DIN EN 1670
Corrosion behaviour - Requirements and test methods

DIN EN 1906
Building hardware, lever handles and doorknobs - Requirements and test methods

DIN EN 12 209
Mechanically operated locks and striking plates - Requirements and test methods

DIN EN 13 724
Residential letter boxes - requirements, inspection, installation

General terms of sale

1. General

The following Terms of Sale represent the exclusive basis for all quotations and contracts; any deviating terms of the Customer, unless explicitly acknowledged in writing, shall be deemed invalid.

2. Quotations

All quotations remain subject to confirmation unless explicitly stipulated as binding or fixed. A contract of sale shall be constituted only upon our written confirmation of order.

3. Delivery and Passage of Risk

Shipment shall be made at the risk and expense of the Customer. The risk passes to the Customer when goods are delivered to the shipping or forwarding agent.

4. Delivery Dates

The delivery dates quoted indicate the foreseeable delivery dates with which we shall endeavour to comply.

5. Prices

Unless other agreements regarding pricing have been made, the prices applicable on the date of delivery shall apply. All prices shall be subject to value-added tax, VAT, and are quoted ex warehouse Brakel, excluding packaging. Packing shall be charged at cost. Tools for which prorated payments have been received shall remain our property.

6. Payment, Offset and Withholding, Return Shipment

Our invoices shall be payable 14 days after date of invoice at 2% discount or 30 days after date of invoice net. Invoice sums less than EUR 50.00 shall be payable net immediately. In the event of overdue payment, we shall be entitled to charge interest at the over-draught rate applicable at that time, and at least 3% above the basic interest rate in accordance with the BGB

(Civil Code) § 247. If, after an order has been placed, we become aware of circumstances which give us good cause to doubt the creditworthiness of the Customer, we shall be entitled to deliver this order subject to cash in advance only and to make the delivery of other orders subject to their prior payment. The Customer shall be entitled to only offset counterclaims which have been legally established or are otherwise undisputed and may exercise a withholding right only in respect to such claims that are based on the same contract. The Customer shall be entitled to return goods only subject to express prior agreement. Such return shipments are subject to a deduction of at least 30% of the value of the goods to compensate for expenses.

7. Retention of Title

The products delivered (reserved goods) shall remain our property until payment in full of the purchase price and all existing and future claims arising from the business relations with the Customer. This shall also apply in cases in which individual or all claims have been consolidated into one single invoice and balanced and approved. The Customer shall be entitled to sell the reserved goods in the due course of business provided he meets his contractual obligations. Otherwise we shall be entitled to require the surrender of the reserved goods; in this case, the Customer has no right of possession. We shall then be entitled, without prejudice towards the Customer's obligation of payment, to sell the re-possessed goods and to credit the Customer with any surplus. At the time of purchase of the reserved goods, the Customer shall at that point in time assign to us all claims arising from the resale which accrue to him against his customers. Subject to revocation, the Customer

shall be authorised to collect the assigned claims; upon our demand, however, he shall notify us without delay and in full of the amount of these claims and the names of his customers. If, in the event of a delivery by the manufacturer, a bill debt is constituted, the retention of title shall expire only after the bill has been redeemed. Should the redeemable value of existing securities surpass the secured claims by more than 10%, we shall be obliged, if so demanded by the Customer, to release securities of our own choice. We shall be entitled to repudiate a contract if an application to open bankruptcy proceedings has been made with respect to the Customer's assets.

8. Published Details

Unless explicitly described as binding, all details and illustrations contained in our brochures and catalogues shall merely represent approximate values common in the industry. The onus shall rest on the Customer to undertake his own examination as to whether the goods are suitable for the intended purpose.

9. Warranty

In the event of complaints regarding recognisable defects, wrong deliveries or substantial differences in quantity, notification must be made to us without delay and in writing at the latest within ten days of delivery of the goods. If the Customer does not make notification of any defects within this period, the goods shall be deemed to have been approved free of defects. Relevant for the purposes of determining whether the condition of the merchandise is in compliance with the contract is the point in time at which risk passes to the Customer as per Article 3. Concealed defects must be notified in writing without delay upon their discovery. We must be given the

opportunity to verify any defect notified. We shall grant a warranty for freedom from defects as defined by the state of the art for a period of two years from the date of delivery. Excluded from warranty are damages resulting from wear and tear, improper handling, faulty assembly or any servicing. The same applies for defects that only negligibly reduce the value or functionality of the merchandise. In the event of a justified and timely complaint, we shall, at our discretion, undertake either improvement or replacement of the goods; all further claims, in particular claims for consequential damage, shall be excluded. In the event that such improvement or replacement fails, the Customer shall retain the right to demand a reduction of the purchase price or rescission of the contract.

10. Place of Performance

and Court of Jurisdiction
Place of performance, place of payment and court of jurisdiction, including that for legal actions on bills of exchange or checks, shall be, as far as admissible, Brakel. This contract shall be governed exclusively by German law. The United Nations Convention of 11.04.1980 on Contracts for the International Sale of Goods (CISG - "Vienna Sales Convention") shall not apply.

11. Closing Provision

The legal invalidity of individual provisions shall not otherwise affect the enforceability of these General Terms and Conditions of Sale.

How to reach FSB



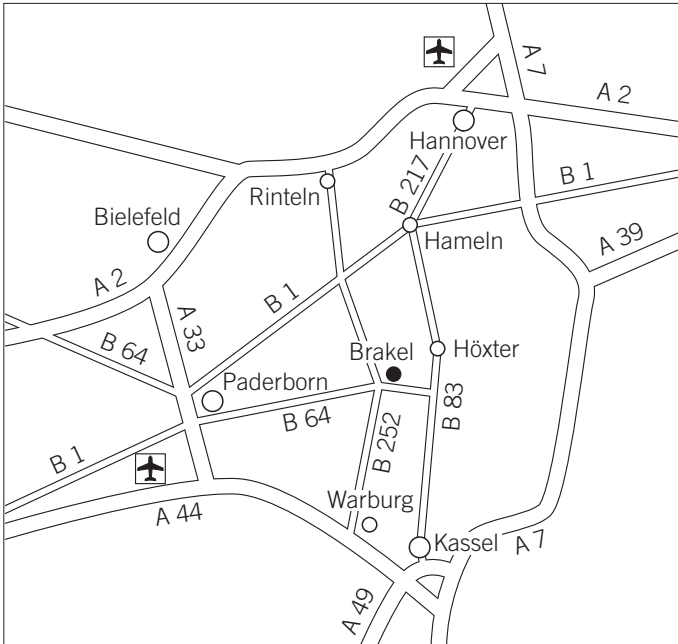
Brakel is situated in the south-easternmost corner of the German federal state of North-Rhine Westphalia. Geographically speaking, it is where the Egge mountains merge with the Weserberg hills.



Paderborn is connected with Berlin, London, Munich, Paris and Stuttgart, etc. The distance of the ICE-railway station Kassel-Wilhelmshöhe is about 55 minutes by car to Brakel.

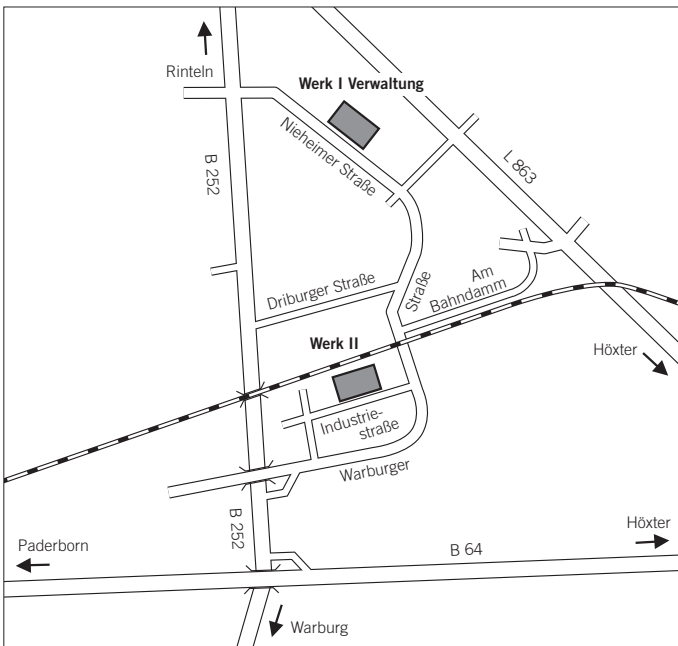
The distances to the most important German airports in km are:

Düsseldorf	about 200 km,
Frankfurt	about 220 km,
Hannover	about 120 km.



When going by car from the north, you'll come to Brakel via motorway, Hannover-Dortmund, exit point Rinteln, picking up then the route from Rinteln-Barntrup-Blomberg to Brakel. The distance from Rinteln to Brakel is about 90 km.

When coming from the south, leave the motorway Kassel-Dortmund at the exit point Warburg/Brakel driving then from Warburg over Peckelsheim, Siddessen and Rheder about 35 km to Brakel.



FSB has two production sites in Brakel.

Central administration is located together with the aluminium foundry and development units at Nieheimer Straße 38.

Facilities II and III are housed along with the logistics centre at Industriestraße 12 on the Brakel industrial estate.

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FSB-Edition

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Fotos: Timm Rautert
Köln: Verlag der Buchhandlung Walther König, 1987
- Johannes Potente, Brakel**
Design der 50er Jahre
Texte: Otl Aicher, Jürgen W. Braun, Siegfried Gronert, Robert Kuhn, Dieter Rams, Rudolf Schönwandt
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Literature FSB

Other books from “the publishers sidelining in handles”:

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Privatdruck, 2005

Einfach!
Architektur aus Österreich
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Mayer, Jan Tabor, Ute Woltron
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