

record CLEAN

Automatic door systems for environments with special requirements



Infopackage

Content

- 3 **record CLEAN K1-A /K2-A**
Sliding door hermetically sealing
- 7 **record CLEAN K1-A -dB**
Automatic sound protection door
- 8 **record CLEAN K1-A Pb /K2-A Pb**
Automatic radiation protection door
- 9 **record CLEAN K1-A na /K2-A na**
Non-hermetically sealing
- 12 **record CLEAN K1-A F /K2-A F**
Sliding door for moist rooms
- 13 **record CLEAN K1-A G /K2-A G**
Glass sliding door hermetically sealing
- 17 **record CLEAN K1-A ST /K2-A ST**
Sliding door hermetically sealing
- 21 **record CLEAN K1-A STna /K2-A ST na**
Non-hermetically sealing
- 24 **record CLEAN K1-A ST Pb /K2-A ST Pb**
Radiation protection
- 25 **record CLEAN K1 RS**
One-winged sliding door with smoke protection
- 29 **record CLEAN K1-A T30 RS**
One-winged automatic sliding door with fire and smoke protection
- 33 **record CLEAN T2-A**
Automatic telescopic sliding door
- 37 **record CLEAN ZK1**
Frame System
- 39 **record CLEAN ZK ST**
Steel frame system
- 41 **record CLEAN K3-A**
Automatic sliding doors with inlet frame
- 44 **record CLEAN K3-A ST Pb**
Automatic radiation protection door in steel finish
- 45 **record CLEAN D1-A ST /D2-A ST**
Automatic revolving door in steel finish
- 49 **record AE 2**
Automated drive for sliding door hermetically sealing
- 51 **record DFA 127**
automatic drive system for swing doors
- 52 **record BDE-D**
Electronic remote control unit with backlight display
- 53 **Push-buttons and switches**
Push-button and switch-program
- 56 **Certification of Quality**
Seals made of EPDM Foam Rubber
- 58 **Cleaning and care instructions**
Information for cleaning and care of surfaces and glass



record CLEAN K1-A / K2-A

Sliding door hermetically sealing



Brief description

The basic door by record CLEAN is an automatically operated sliding door, model K. This sealed door is being produced as a one-winged (K1-A) or two-winged (K2-A) option model. Special equipment is possible (optional). All special option models (radiation protection, moist environment or sound protection doors) are based upon this door model.

Door leaf

Strength of leaf core	40 mm
Circumferential profile	Anodized aluminum profile, circumferential 56 mm, V-shaped in the bottom area towards door lead on ground lobes
Surface	0.8 mm HPL-laminate on 3 mm MDF-board as carrier material; depending on the chosen material a free passage of 1.15 m or more may require a seam in the laminate
Sealing	Rubber gaskets embedded in the door leaves press against the frame and the floor, providing a hermetic sealing of the door
Guide rail	Anodized aluminum profile with two countersunk slots at 42° for carrying wheel position in closed condition
Carrying wheels	Ball bearing with duroplastic rolls
Covering	Rounded covering of extruded anodized aluminum
Ground rail	Duroplastic lead lobes on bottom running rail

Security precautions

Final position	Duroplastic stopper for both final positions of the door
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Bilateral (inside / outside) stainless steel lever arm handle with integrated return spring to neutral position
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record CLEAN K1-A / K2-A

Sliding door hermetically sealing

Frame

HPL-system frame	HPL- coated embrasure board with circumferential aluminum corner protection profiles for arbitrary wall strengths
Closed frame – steel	Closed steel frame with additional aluminum corner protection profiles (for sealing the operation side of the door)
Closed frame – stainless steel	Stainless steel closed frame, steel grade 1.4301, polished 240 grain, with additional stainless steel corner profiles (for sealing the operation side of the door)

Optional equipment

Window	Integrated window, mounted flush with the adjacent area of the door leaf in several optional designs for radiation protection, laser protection, sound protection; also available with aluminum fringe and /or integrated blind
Barrier free	Extended lever arm handle for operation from wheelchairs
Lock	Deadbolt lock, prepared for Euronorm-profile cylinder; restroom lock with one-way locking handle and display
Electric lock	Electric lock, 24V for activation through code locks, switches, key switches or reciprocal interlocking doors
Door leaf with undercut	If hermetical sealing is not desired, the door leaf can be produced with up to 20mm undercut

Installation requirements

Walls	For mounting the guidance rail massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120mm, wall strength 5 mm) above the passageway and into the opening area needs to be implemented by the contractor. In door areas the walls must not be more then ± 10 mm from perpendicular.
Floor	To achieve a hermetic sealing and to avoid rubber cords on the flooring, the ground in the operation area of the door may not more than ± 2 mm off level. The flooring must be in its definitive state before starting the mounting of the doors, in order to be able to achieve hermetic sealing towards the ground.

Special option models

Automated door	
Sound protection	See appendix technical data sound protection dB (only model K1)
Radiation protection	See appendix technical data radiation protection Pb
Smoke protection	See appendix technical data smoke protection – RS (only model K1)
Fire protection	See appendix technical data fire protection – T30-RS (only model K1)
Moist rooms	See appendix technical data moist rooms – F
Glass door	See appendix technical data glass – G
Stainless steel	See models from the KST system

record CLEAN K1-A -dB

Automatic sound protection door



Brief description

The sound protection door K1-A -dB is based upon door model K1-A automated. It can be provided for 34 dB, 37 dB and 42 dB needs.

Sound insulation

Laboratory tested sound insulation value $R'_{w,p} = 34 \text{ dB} - 42 \text{ dB}$

Door leaf

Strength of leaf core	40 mm
Circumferential profile	Anodized aluminum profile, circumferential 56 mm, V-shaped in the bottom area towards door lead on ground lobes
Surface	0.8 mm HPL-laminate on 3 mm MDF-board as carrier material; depending on the chosen material a free passage of 1.15 m or more may require a seam in the laminate.
Core	Sound insulating door leaf core
Surface weight	approx. 32.6 kg/m ² – approx. 67.3 kg/m ²
Sealing	Circumferential sound protecting rubber sealing, embedded in the closed frame, pressing against the floor and the aluminum corner profiles, mounted to the existing frame

Frame

HPL-system frame	The system frame is highly recommended for achieving the highest possible sound insulation HPL-coated embrasure board with circumferential aluminum corner protection profiles for arbitrary wall strengths
Closed frame – steel	Closed steel frame with additional aluminum corner protection profiles (for sealing the operation side of the door)
Closed frame – stainless steel	Stainless steel closed frame, steel grade 1.4301, polished 240 grain, with additional stainless steel corner profiles (for sealing the operation side of the door)

record CLEAN K1-A Pb / K2-A Pb

Automatic radiation protection door



Brief description

The radiation protection door Pb is based upon door models K1 / K2 or K3, respectively K1-A / K2-A or K3-A automated doors. The Pb model can, according to the requirements of radiation protection, be produced with lead inlays in steps of 0.5 mm.

Radiation protection (example)

Lead inlay Pb 1	1 mm full scale lead coating on the frame side of the door leaf
Lead inlay Pb 2	2 mm full scale lead coating on the frame side of the door leaf
	Other lead equivalent values available on request

Door leaf

Strength of leaf core	40 mm
Circumferential profile	Anodized aluminum profile with lead casing on the inside, circumferential 56 mm, V-shaped in the bottom area towards door lead on ground lobes.
Surface weight Pb 1	approx. 27.3 kg / m ²
Surface weight Pb 2	approx. 38.6 kg / m ²
Sealing	Rubber gaskets embedded in the door leaf press against the floor and the lead coated aluminum corner profiles, mounted to the existing frame, providing a hermetic sealing of the door

Frame

HPL system frame	HPL- and lead coated embrasure board with circumferential aluminum corner protection profiles for arbitrary wall strengths
Closed steel frame	Closed lead and steel frame with additional lead coated aluminum corner protection profiles (for sealing the operation side of the door)
Closed stainless steel frame	Lead coated stainless steel two-piece closed frame, steel grade 1.4301, polished 240 grain, with additional lead coated stainless steel corner profiles (for sealing the operation side of the door)

record CLEAN K1-A na / K2-A na

Non-hermetically sealing



Brief description

The "na" model of the K system is based upon the one-winged (K1) and two winged (K2) door models and is not hermetically sealing.

Door leaf

Strength of leaf core	40 mm
circumferential profile	Anodized aluminum profile, circumferential 56 mm
Surface	0.8 mm HPL-laminate on 3 mm MDF-board as carrier material; depending on the chosen material a free passage of 1.15 m or more may require a seam in the laminate
Sealing	Rubber gaskets embedded in the door leaves press against the framework in triangular directions

Rail system

Guide rail	Anodized aluminum profile
Carrying wheels	Ball bearing with duroplastic rolls
Covering	Rounded aluminum covering
Ground rail	Duroplastic gliders on bottom running rail

Security precautions

Final position	Duroplastic stopper for both final positions of the door
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Bilateral stainless steel bow-type handles
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Special option models

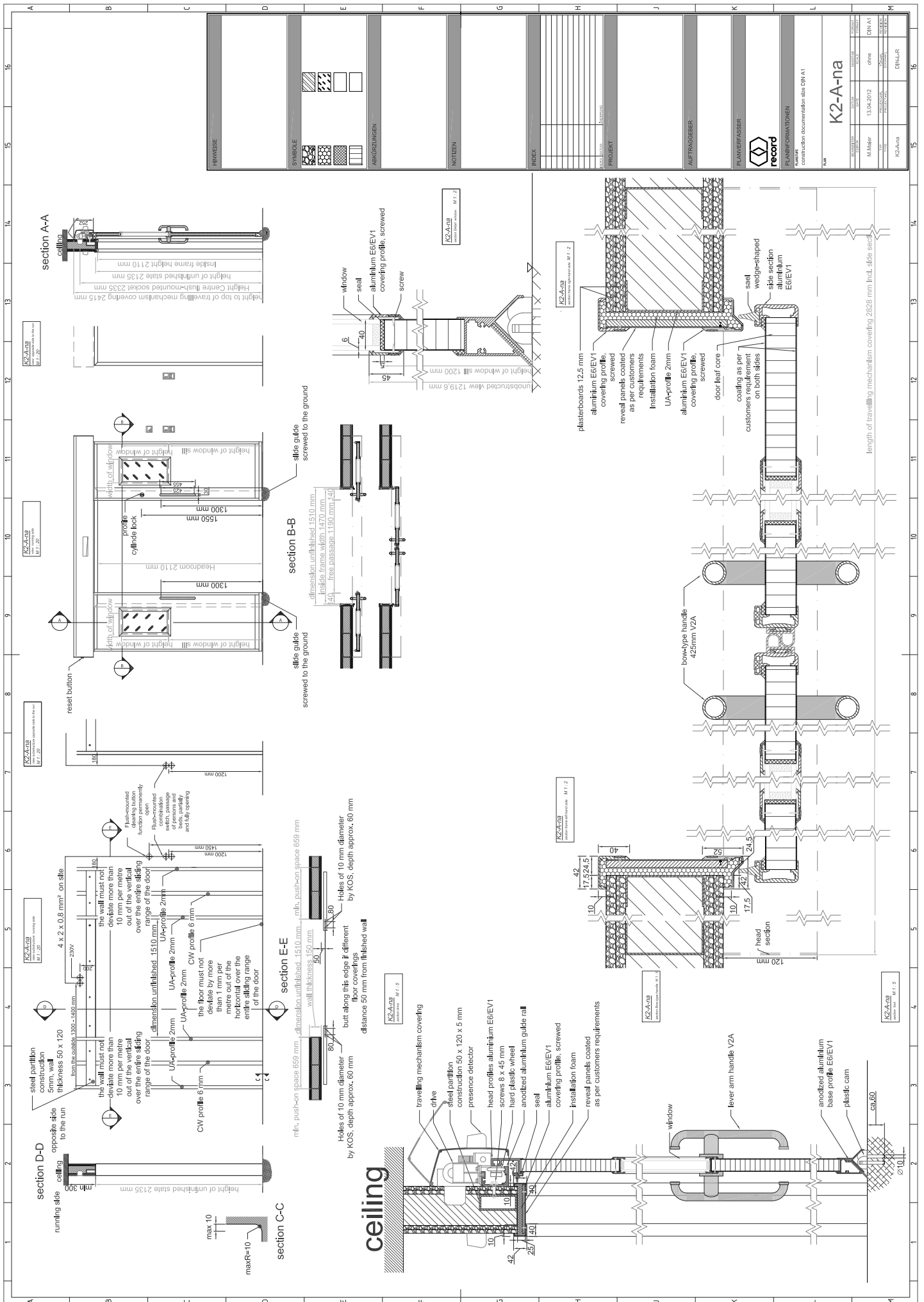
Automated door	
Radiation protection	See appendix technical data radiation protection Pb
Moist rooms	See appendix technical data moist rooms – F
Glass door	See appendix technical data glass – G
Stainless steel	See models from the KST system



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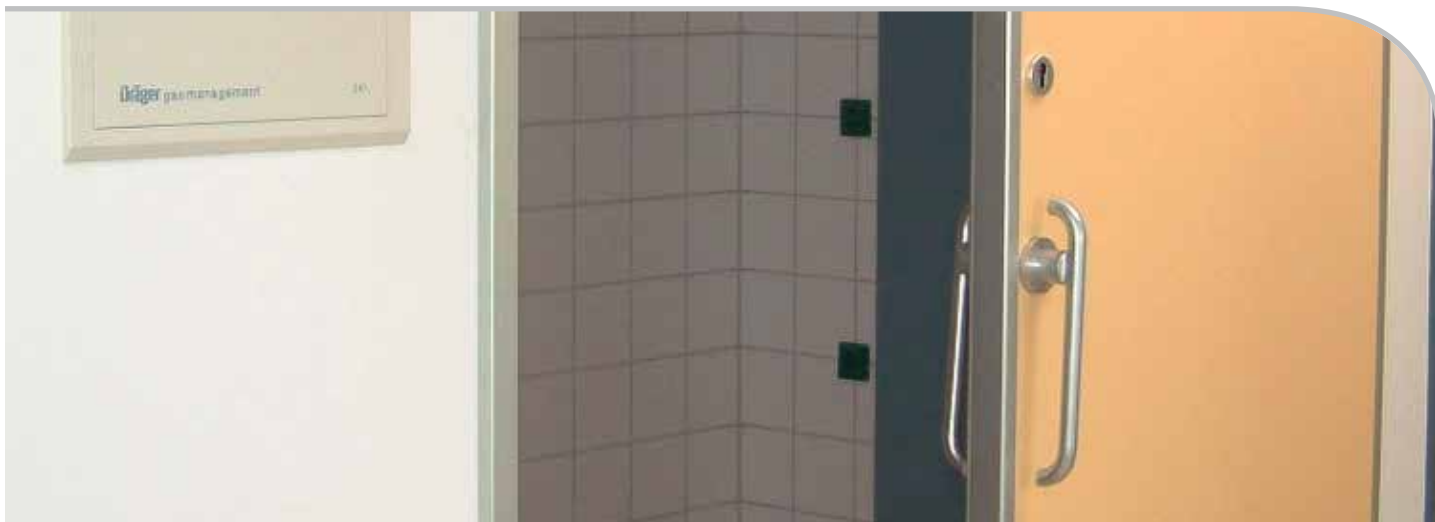
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record CLEAN K1-A F / K2-A F

Sliding door for moist rooms



Brief description

The K system moist room door is based upon the one-winged (K1) and two-winged (K2) door models, respectively the corresponding automated doors.

Humidity resistance Splash water proof option model of door leaf through use of materials inured to humidity

Door leaf

Strength of leaf core 40 mm

circumferential profile Anodized aluminum profile, circumferential 56 mm, V-shaped in the bottom area towards door lead on ground lobes

Surface bilateral 5 mm HPL-solid

Surface weight approx. 14.0 kg/m²

Sealing Circumferential rubber gaskets, mounted to the doors closed frame press against the floor and aluminum corner profiles, mounted to the existing frame

Optional equipment

Special strain Depending on the operation purpose the door leaf can be produced with 10 mm HPL-solid for high mechanical strain; the rigid foam core is leveled down to 20 mm and the surface weight is increased to 28 kg/m²

Special option models

Automated door

Sound protection See appendix technical data sound protection dB (only model K1)

Radiation protection See appendix technical data radiation protection Pb

Smoke protection See appendix technical data smoke protection – RS (only model K1)

Fire protection See appendix technical data fire protection – T30-RS (only model K1))

Glass door See appendix technical data glass – G

Stainless steel See models from the KST system



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record CLEAN K1-A G / K2-A G

Glass sliding door hermetically sealing



Brief description

The glass door of the K system is based upon the one winged (K1) and two-winged (K2) door models, respectively the corresponding automated door models.

Door leaf

Glazing	8 mm VSG, further option models on request
Glass panel holder	Anodized aluminum, 44 x 35 mm embedded in the frame molding of the door; on the handle side of the door leaf 44 x 100 mm
Circumferential profile	Anodized aluminum profile, circumferential 56 mm, V-shaped in the bottom area towards door lead on ground lobes
Sealing	Circumferential rubber gaskets mounted in the profile of the door press against the floor and the aluminum corner profile, mounted on the existing frame
Surface weight	approx. 26.4 kg/m ²

Frame

HPL-system frame	HPL-coated embrasure board with circumferential aluminum corner protection profiles for arbitrary wall strengths
Closed frame – steel	Closed steel frame with additional aluminum corner protection profiles (for sealing the operation side of the door)
Closed frame – stainless steel	Stainless steel closed frame, steel grade 1.4301, polished 240 grain, with additional stainless steel corner profiles (for sealing the operation side of the door)

Special option models

Powder coating	Aluminum profiles in RAL-colors.
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record CLEAN K1-A ST / K2-A ST

Sliding door hermetically sealing



Brief description

With the ST system the door leaf, as well as all visible parts are made of stainless steel or galvanized sheet steel. The basic functions of system K remain, only the form of the door leaf is slightly different from other designs. The sealed door is being produced as one-winged (model K1 ST). Special equipment is optional.

Door leaf

Strength	40 mm
Surface	1.0 mm stainless sheet steel, steel grade 1.4301, polished 240 grain, or galvanized, coated sheet steel with an inside width of the frame of 1.810 mm without joint in the surface, finishing coating optional
Sealing	Rubber gaskets embedded in the door leaf press against the frame and the floor; this provides for a hermetic sealing of the door

Rail system

Guide rail	Anodized aluminum profile with two countersunk slots at 42° for carrying wheel position in closed condition.
Carrying wheels	Ball bearing with duroplastic rolls
Covering	Canted encasement made of stainless steel or steel, galvanized, primed or finished (color according to client)
Ground rail	Duroplastic lead lobes on bottom running rail

Security precautions

Final position	Duroplastic stopper for both final positions of the door
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Bilateral (inside / outside) stainless steel lever arm handle with integrated return spring to neutral position
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Frame

Two part stainless steel frame	Stainless steel open frame, steel grade 1.4301, polished 240 grain, or galvanized and primed or finished sheet steel (color according to client)
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record CLEAN K1-A ST / K2-A ST

Sliding door hermetically sealing

Optional equipment

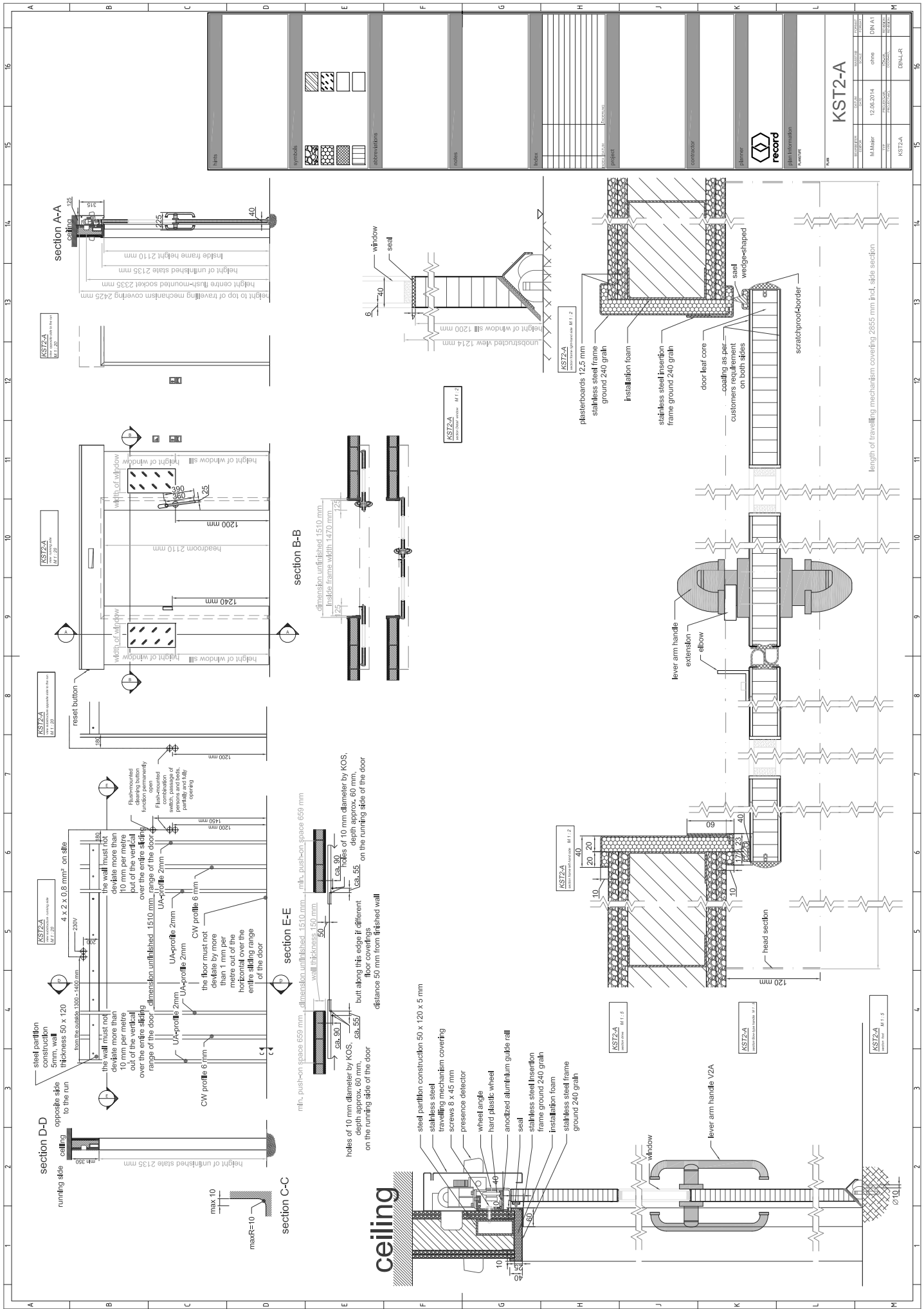
Window	Integrated window, mounted flush with the adjacent area of the door leaf in several optional designs for ray protection, laser protection, sound protection; also available with aluminum fringe and/or integrated blind
Lock	Deadbolt lock, prepared for Euronorm-profile cylinder;
Electric lock	Electric lock, 24V for activation through code locks, switches, key switches or reciprocal interlocking doors
Door leaf with undercut	If hermetical sealing is not desired, the door leaf can be produced with up to 20mm undercut

Installation requirements

Walls	<p>For mounting the guidance rail massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120mm, wall strength 5 mm) above the passageway and into the opening area needs to be implemented by the contractor</p> <p>In door areas the walls must not be more than ± 10 mm from perpendicular</p>
Floor	<p>To achieve a hermetic sealing and to avoid rubber cords on the flooring, the ground in the operation area of the door may not more than ± 2 mm off level</p> <p>The flooring must be in its definitive state before starting the mounting of the doors, in order to be able to achieve hermetic sealing towards the ground</p> <p>For floor coverings with fillets towards the wall, the radius of the fillet must not exceed 10mm in the entire operation area of the door, for otherwise the door may be obstructed</p>

Special option models

Automated door	
Radiation protection	See appendix technical data radiation protection Pb
Moist rooms	All doors from the KST system are generally suitable for operation in moist rooms due to the utilized materials



record CLEAN K1-A ST na / K2-A ST na

Non-hermetically sealing



Brief description

The "na" model of the K system is based upon the one-winged (K1-A ST) and two-winged (K2-A ST) door models and is not hermetically sealing.

Door leaf

Strength	40 mm
Surface	1.0 mm stainless sheet steel, steel grade 1.4301, polished 240 grain, or galvanized, coated sheet steel with an inside width of the frame of 1.810 mm without joint in the surface, finishing coating optional
Sealing	Rubber gaskets embedded in the door leaf press against the frame and the floor; this provides for a hermetic sealing of the door

Rail system

Guide rail	Anodized aluminum profile
Carrying wheels	Ball bearing with duroplastic rolls
Covering	Rounded aluminum coating
Ground rail	Duroplastic gliders on the runningside in the ground

Security precautions

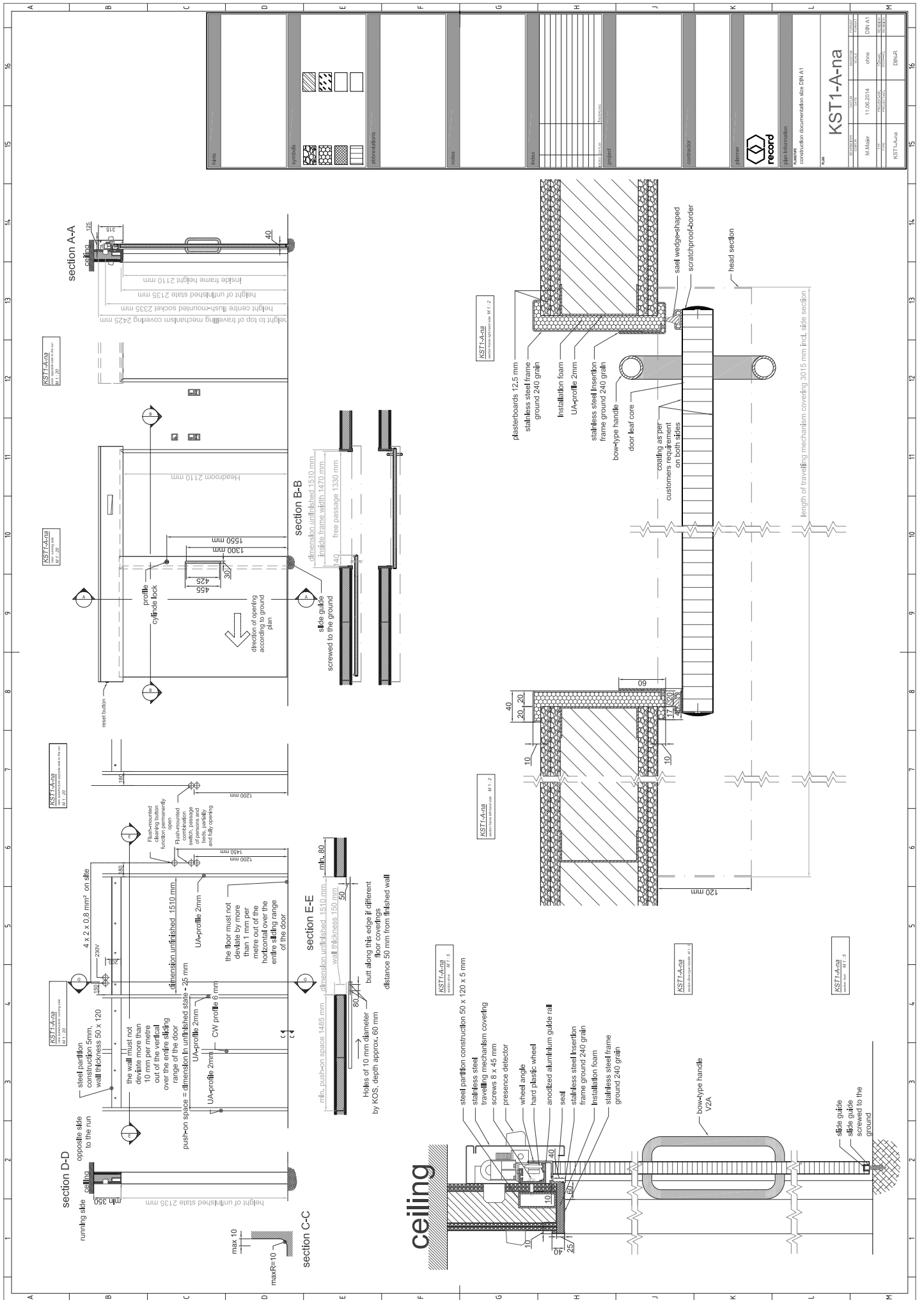
Final position	Duroplastic stopper for both final positions of the door
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Bilateral (inside / outside) stainless steel lever arm handle
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Special option models

Automated door	
Radiation protection	See appendix technical data radiation protection Pb
Moist rooms	See appendix technical data moist rooms – F



record CLEAN K1-A ST Pb / K2-A ST Pb

Radiation protection



Brief description

The radiation protection door Pb is based upon door models K1-A/K2-A automated doors. The Pb model can, according to the requirements of radiation protection, be produced with lead inlays in steps of 0.5 mm.

Radiation protection (exemplary)

Lead inlay Pb 1	1 mm full scale lead coating on the frame side of the door leaf
Lead inlay Pb 2	2 mm full scale lead coating on the frame side of the door leaf
	Other lead equivalent values available on request

Door leaf

Strength of leaf core	40 mm
Surface weight Pb 1	approx. 27.3 kg/m ²
Surface weight Pb 2	approx. 38.6 kg/m ²
Sealing	Rubber gaskets embedded in the door leaf press against the floor and the lead coated aluminum corner profiles, mounted to the existing frame, providing a hermetic sealing of the door.

Frame

Closed steel frame	Closed lead and steel frame with additional lead coated aluminum corner protection profiles (for sealing the operation side of the door)
Closed stainless steel frame	Lead coated stainless steel two-piece closed frame, steel grade 1.4301, polished 240 grain, with additional lead coated stainless steel corner profiles (for sealing the operation side of the door)

record CLEAN K1 RS

One-winged sliding door with smoke protection



Brief description

With modified seals and a heat-absorbing core, the basic record CLEAN K1 becomes a certified smoke control door

Door leaf

Strength of leaf core	40mm
Circumferential profile	Anodized aluminum profile, circumferential 56 mm, V-shaped in the bottom area towards door lead on ground lobes.
Surface	0.8 mm HPL-laminate on 3 mm MDF-board as carrier material; depending on the chosen material a free passage of 1.15 m or more may require a seam in the laminate.
Core	Heat absorbing composites
Sealing	Rubber gaskets embedded in the door leaves press against the frame and the floor, providing a hermetic sealing of the door.

Rail system

Guide rail	Anodized aluminum profile with two countersunk slots at 42° for carrying wheel position in closed condition.
Carrying wheels	Ball bearing with duroplastic rolls
Covering	Rounded covering of extruded anodized aluminum.
Ground rail	3 duroplastic lead lobes on the bottom operation side

Security precautions

Final position	Duroplastic stoppers for both final positions of the door
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Bilateral (inside / outside) stainless steel lever arm handle with integrated return spring to neutral position
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record CLEAN K1 RS

one-winged sliding door with smoke protection

Optional equipment

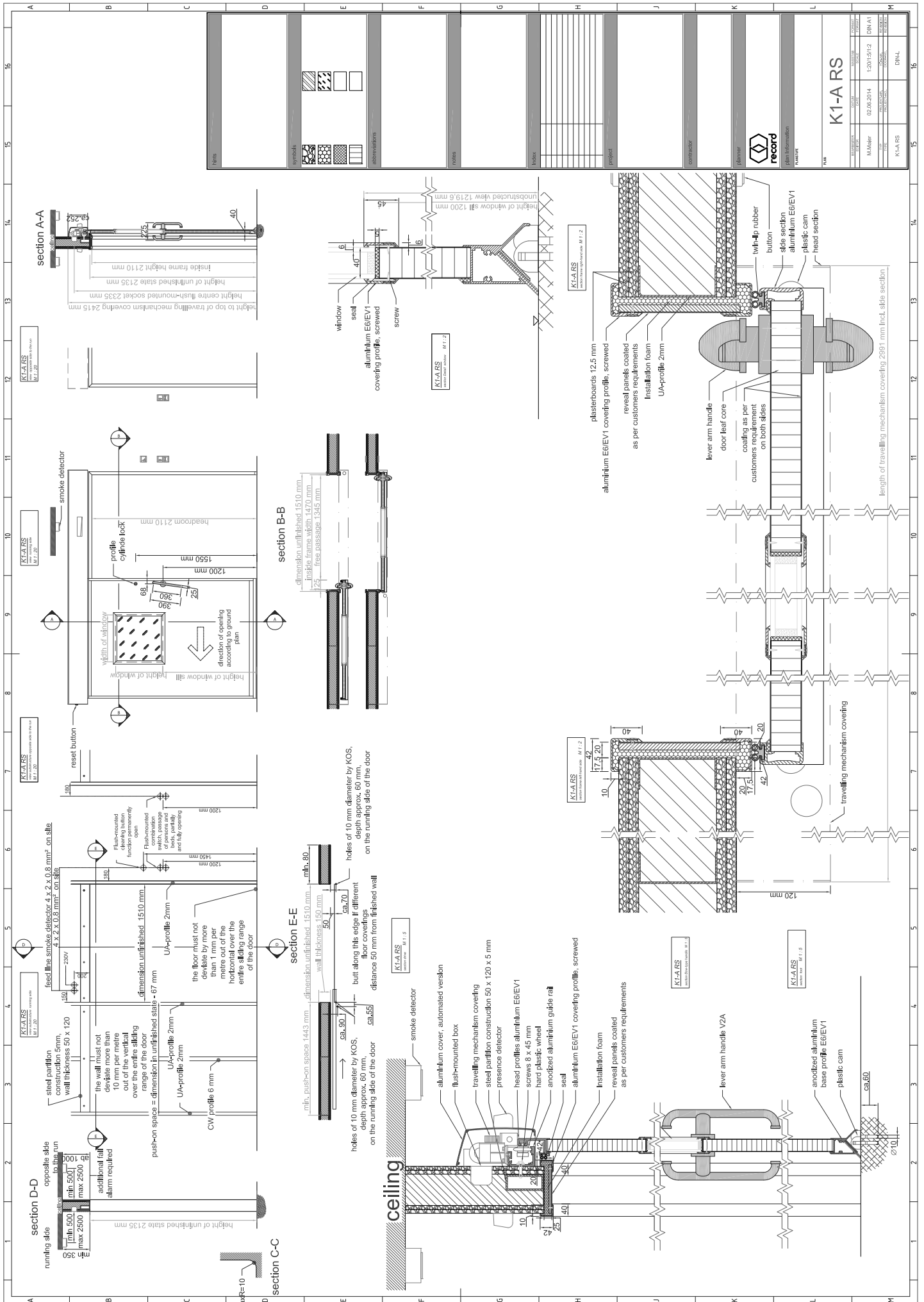
HPL-system frame	HPL-coated embrasure board with circumferential aluminum corner protection profiles for arbitrary wall strengths
Closed frame – steel	Closed steel frame with additional aluminum corner protection profiles (for sealing the operation side of the door)
Closed frame – stainless steel	Stainless steel closed frame, steel grade 1.4301, polished 240 grain, with additional stainless steel corner profiles (for sealing the operation side of the door)
Window	Integrated window, mounted flush with the adjacent area of the door leaf in several optional designs for ray protection, laser protection, sound protection; also available with aluminum fringe and /or integrated blind, max 900 x 900mm
Barrier free	Extended lever arm handle for operation from wheelchairs
Closing delay	Magnetic clamp released by pushbutton, time relays or automated drive
Electric lock	Electric lock, 24 V for activation through code locks, switches, key switches or reciprocal interlocking doors

Installation requirements

Walls	<p>For mounting the guidance rail massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120mm, wall strength 5 mm) above the passageway and into the opening area needs to be implemented by the contractor.</p> <p>In door areas the walls must not be more than ± 10mm from perpendicular.</p>
Floor	<p>To achieve a hermetic sealing and to avoid rubber cords on the flooring, the ground in the operation area of the door may not more than ± 2mm off level.</p> <p>The flooring must be in its definitive state before starting the mounting of the doors, in order to be able to achieve hermetic sealing towards the ground.</p> <p>For floor coverings with fillets towards the wall, the radius of the fillet must not exceed 10mm in the entire operation area of the door, for otherwise the door may be obstructed.</p>

Special option models

Radiation protection	See appendix technical data radiation protection Pb
Moist rooms	See appendix technical data moist rooms F



record CLEAN K1-A T30 RS

One-winged automatic sliding door with fire and smoke protection



Brief description

Fire protection sliding door (fire protection closure – FSC) with certification according to DIN 4102, EN 1634, Belgian special standard and smoke protection testing according to DIN 18095 for structural work entrances up to W x H 1 510 x 2 135 mm in light weight drywalls according to DIN 4102, pt. 4

Door leaf

Strength of door leaf	60 mm
Surface	0.8 mm HPL-laminate
Core	Fireproof sandwich construction
Sealing	Sealing profile provided in V2A and aluminum

Rail system

Guide rail	V2A-guide rail with aluminum profile
Carrying wheels	Ball bearing with duroplastic rolls
Covering	Folded aluminum coating
Ground rail	Stainless steel lead lobes on bottom running rail

Security precautions

Final position	Captor-construction for doors final position
Closing system	Mechanical self-closing system, self-locking device optional
Security installations	Equipped with smoke detector or connection to existing fire alarm system

Operation

Handle	Bilateral (inside/outside) stainless steel lever arm handle with integrated return spring to neutral position
Barrier free	Extended lever arm handle for operation from wheelchairs

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record CLEAN K1-A T30 RS

one-winged automatic sliding door with fire and smoke protection

Frame system

System frame HPL-surface with circumferential corner protection steel profiles for arbitrary wall strengths for supplementary installation in drywalls and brickwork walls

Installation requirements

Walls For mounting the guidance rail massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120 mm, wall strength 5 mm) above the passageway and into the opening area needs to be implemented by the contractor.

In door areas the walls must not be more than ± 10 mm from perpendicular.

Floor To achieve a hermetic sealing and to avoid rubber cords on the flooring, the ground in the operation area of the door may not more than ± 2 mm off level.

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record CLEAN T2-A

Automatic telescopic sliding door



Brief description

attractive and reliable, but more impressive in construction and range of motion, are our two or four leaf telescopic sliding doors. Thanks to their narrower door leaves, they require about 30% less space compared to standard sliding doors

Door leaf

Strength of leaf core	40 mm
Standard door leaf	In the standard version the door leaf core consists of a 32 mm tubular chipboard or wood chipboard. 0.8 mm HPL-laminate glued on full surface, serves as two-sided coating (decor according to manufacturer, e.g. Thermopal, Perpstop, Resopal) on a 3.2 mm fiber board as carrier material.
Steel or stainless steel door leaf	Door leaf core polystyrol rigid foam. Coating consists of stainless steel or galvanized sheet steel and is applied in a special glue process. All welds and bolt connections are arranged subsurface.
Sealing	For sealing and to avoid hard contact with the frame, the door leaf closes with the rubber profile of the frame system on both front and back of the door.

Rail system

Description	The guide rail consists of an anodized aluminum profile which is mounted to the wall and is height adjustable through excenter screws. The travelling mechanism consists of two high quality ball bearings with duroplastic low noise track carriages, which are mounted to the door leaf with angle brackets.
Ground rail	In the sliding doors bottom area a covered guidance rail made of plastic and aluminum is installed. The aluminum U-rail is implemented in the door leaf. The duroplastic guidance glider is fixed in the floor outside the passage way.

Security precautions

Final position	Duroplastic stopper for both final positions of the door
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Inside: shell handle; outside: stainless steel bow-type handle
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record CLEAN T2-A

automatic telescopic sliding door

Frame

Closed frame – steel

According to the preset strength of the finished wall, the frame will be constructed as circumferential, one-piece or two-piece frame. With the two-piece frame system (closed frame and counter-frame) the counter-frame is either bolted or glued. The material strength is 1.5 mm for stainless steel frames and 2.0 mm for sheet steel frames. The visible frame width is 50 mm. In the front part of the frame (inlet frame) a flute needs to be installed in which the sliding door leaf will seal off.

Optional equipment

Window

Integrated window, mounted flush with the adjacent area of the door leaf in several optional designs for ray protection or laser protection; also available with integrated blind

Lock

Deadbolt lock, prepared for Euronorm-profile cylinder; restroom lock with one-way locking handle and display

Door leaf with undercut

The door leaf can be produced with up to 20 mm undercut

Installation requirements

Walls

For mounting the guidance rail massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120 mm, wall strength 5 mm) above the passageway and into the opening area needs to be implemented by the contractor.

In door areas the walls must not be more than ± 10 mm from perpendicular.

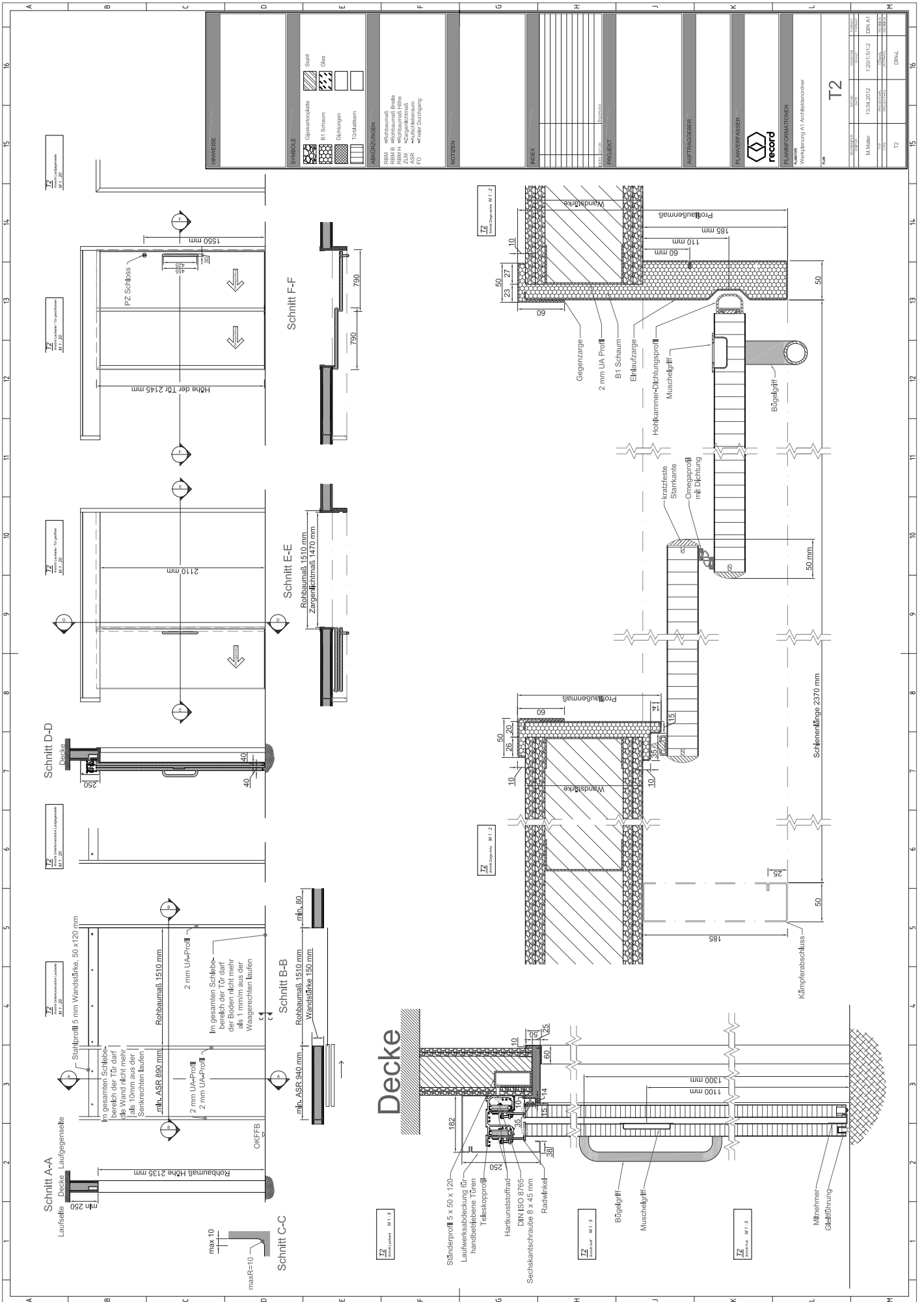
Floor

The flooring must be in its definitive state before starting the mounting of the doors.

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record CLEAN ZK1

Frame System



Brief description

The ideal addition to the K system doors is the frame system ZK1. Through its aligned components and materials it integrates into the K system both optical and functional.

The frame consists of three embrasure coatings with corner protection profiles. After mounting these parts the corner protection profiles on the door side are positioned to seal off with the circumferential closed frame and bolted tight. These corner profiles offer the best preconditions for achieving a hermetic sealing of the door. The frame system provides a durable protection from damage to the wall embrasures, even under stringent conditions.

Even without a door leaf the ZK1 frame system can be utilized as a shapely encasement for passages and offers numerous creative possibilities through the different coating options.

Alternatively we offer a steel or stainless steel inlet frame, which can also be equipped with an aluminum or stainless steel corner protection profile on the door side. For details please review the corresponding engineering drawing.

Frame system ZK1

Embrasure covering	10mm moisture-resistant material
Surface	HPL-lamination, color can be matched with the door leaf, other coating materials available on request (e.g. stainless steel)
Aluminum Corner protection profiles	Anodized aluminum, measurements of profile brackets 40 x 42 mm
Radiation protection	For radiation protection doors both the embrasure coverings and the corner profiles will be coated on the inside with the necessary lead strength.
Mounting	The embrasure coverings are mounted with polyurethane foam (fire retardant option at additional charge), the bolting of the corner protection profiles will be covered with an aluminum cover strip.
Potential equalization	Corner protection profiles can be connected (not visible) to the potential equalization.
Measurements	For arbitrary wall strengths

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record CLEAN ZK1

Frame System

Steel frame system

Steel closed frame	Steel closed frame with additional aluminum corner protection profiles (for sealing on the operation side of the door)
Steel corner frame	Frames can be provided with steel corner frames on demand
Radiation protection	For radiation protection doors the frames are fully coated on the inside with the required lead strength and additional lead coated aluminum corner protection profiles are installed (for sealing on the operation side of the door)
Mounting	The embrasure coverings are mounted with polyurethane foam (fire retardant option at additional charge)
Potential equalization	Corner protection profiles can be connected (not visible) to the potential equalization
Measurements	For arbitrary wall strengths

Stainless steel frame system

Stainless steel closed frame	Umfassungszarge aus Edelstahl, Werkstoff 1.4301, geschliffen Korn 240, mit zusätzlichen Eckprofilen aus Edelstahl (zur Abdichtung auf der Laufseite der Tür)
Edelstahl Eckzarge	Frames can be provided with stainless steel corner frames on demand
Stainless steel corner frame	Available in steel grade 1.4301 V2A or steel grade 1.4571 V4A
Radiation protection	For radiation protection doors the frames are fully coated on the inside with the required lead strength and additional lead coated stainless steel corner protection profiles are installed (for sealing on the operation side of the door)
Mounting	The embrasure coverings are mounted with polyurethane foam (fire retardant on request)
Potential equalization	Corner protection profiles can be connected (not visible) to the potential equalization
Measurements	For arbitrary wall strengths

Special option models

Niche option model	The installation of door system in a niche is possible
Expansion joint frame	The door system can be equipped with an expansion joint

record CLEAN ZK ST

Steel frame system



Brief description

The ideal addition to the K system doors is the frame system ZK1. Through its aligned components and materials it integrates into the K system both optical and functional.

The frame consists of three embrasure coatings with corner protection profiles. After mounting these parts the corner protection profiles on the door side are positioned to seal off with the circumferential closed frame and bolted tight. These corner profiles offer the best preconditions for achieving a hermetic sealing of the door. The frame system provides a durable protection from damage to the wall embrasures, even under stringent conditions.

Closed frame	Folded stainless steel, steel grade 1.4301, polished 240 grain, or galvanized sheet steel, also finish coated.
Surface	HPL-lamination, color can be matched with the door leaf, other coating materials available on request (e.g. stainless steel)
Counter frame	Stainless steel, steel grade 1.4301, polished 240 grain, or galvanized, primed sheet steel, measurements of the profile brackets 40 x 70 mm
Steel grade stainless steel	Steel grade 1.4301 V2A or steel grade 1.4571 V4A available
Radiation protection	For radiation protection doors both the closed frame and the counter frame are coated on the inside with the required lead strength.
Mounting	The embrasure coverings are mounted with polyurethane foam (fire retardant option at additional charge)
Potential equalization	Corner protection profiles can be connected (not visible) to the potential equalization
Measurements	For arbitrary wall strengths

Special option models

Niche option model	The installation of door system in a niche is possible
Expansion joint frame	The door system can be equipped with an expansion joint.

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record CLEAN K3-A

Automatic sliding doors with inlet frame



Brief description

Door leaf

Strength	40mm
Standard door leaf	In the standard version the door leaf core consists of a 32 mm tubular chipboard or wood chipboard. 0.8 mm HPL-laminate glued on full surface, serves as two-sided coating (decor according to manufacturer, e.g. Thermopal, Perpstop, Resopal) on a 3.2mm fiber board as carrier material
Steel or stainless steel door leaf	Door leaf core: polystyrol rigid foam. Coating consists of stainless steel or galvanized sheet steel and is applied in a special glue process. All welds and bolt connections are arranged subsurface
Sealing	For sealing and to avoid hard contact with the frame, the door leaf closes with the rubber profile of the frame system on both front and back of the door

Rail system

Description	The guide rail consists of an anodized aluminum profile which is mounted to the wall and is height adjustable through excenter screws. The travelling mechanism consists of two high quality ball bearings with duroplastic wheels (low noise), which are mounted to the door leaf with special stainless steel angle brackets
Ground rail	In the sliding doors bottom area a covered guidance rail made of plastic and aluminum is installed. The aluminum U-rail is implemented in the door leaf. The duroplastic guidance glider is fixed in the floor outside the passage way

Security precautions

Final position	Duroplastic stoppers for both final positions of the door.
Fail safe	Two fail safe installations in the door blade prevent the door from derailing during operation

Operation

Handle	Bilateral stainless steel bow-type handles
--------	--------------------------------------------

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record CLEAN K3-A

Automatic sliding doors with inlet frame

Frame

Closed steel frame

According to the preset strength of the finished wall, the frame will be constructed as circumferential, one-piece or two-piece frame. With the two-piece frame system (closed frame and counter-frame) the counter-frame is either bolted or glued. The material strength is 1.5 mm for stainless steel frames and 2.0 mm for sheet steel frames. The visible frame width is 50 mm. In the front part of the frame (inlet frame) a flute needs to be installed in which the sliding door leaf will seal off.

Optional equipment

Window

Integrated window, mounted flush with the adjacent area of the door leaf in several optional designs for ray protection, laser protection, sound protection; also available with aluminum fringe and / or integrated blind

Lock

Deadbolt lock, prepared for Euronorm-profile cylinder; restroom lock with one-way locking handle and display

Electric lock

Electric lock, 24 V for activation through code locks, switches, key switches or reciprocal interlocking doors

Door leaf with undercut

The door leaf can be produced with up to 20 mm undercut

Installation requirements

Walls

For mounting the guidance rail massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120 mm, wall strength 5 mm) above the passageway and into the opening area needs to be implemented by the contractor

In door areas the walls must not be more than ± 10 mm from perpendicular

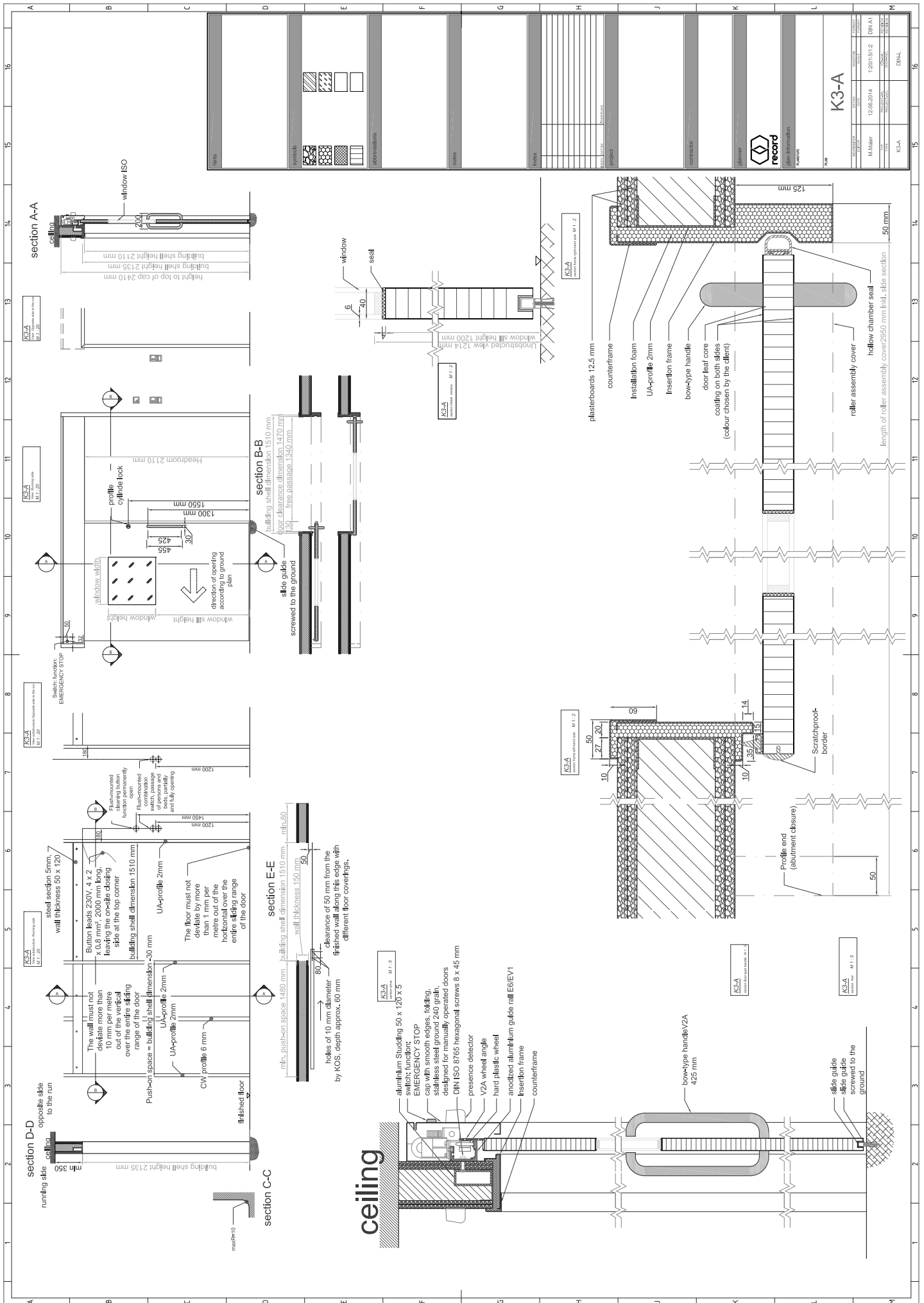
Floor

The flooring must be in its definitive state before starting the mounting of the door

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record CLEAN K3-A ST Pb

Automatic radiation protection door in steel finish



Brief description

The radiation protection door Pb is based upon door models K1 / K2 or K3, respectively K1-A / K2-A or K3-A automated doors. The Pb model can, according to the requirements of radiation protection, be produced with lead inlays in steps of 0.5 mm.

Radiation protection (exemplary)

Lead inlay Pb 1	1 mm full scale lead coating on the frame side of the door leaf
Lead inlay Pb 2	2 mm full scale lead coating on the frame side of the door leaf
	Other lead equivalent values available on request

Door leaf

Strength	40 mm
Surface weight Pb 1	approx. 27.3 kg/m ²
Surface weight Pb 2	approx. 38.6 kg/m ²
Sealing	Rubber gaskets embedded in the door leaf press against the floor and the lead coated aluminum corner profiles, mounted to the existing frame, providing a hermetic sealing of the door

Frame

Closed steel frame	Closed lead and steel frame
Closed stainless steel frame	Lead coated stainless steel two-piece closed frame, steel grade 1.4301, polished 240 grain, with additional lead coated stainless steel corner profiles (for sealing the operation side of the door)

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record CLEAN D1-A ST / D2-A ST

Automatic revolving door in steel finish



Brief description

With the DST hinged door system by record the door leaf, as well as all visible parts, is made of stainless steel or galvanized sheet steel.

Door Leaf

Strength of door leaf	40 mm
Surface	Covered all over with 1.0 mm, four-sided stainless steel grade 1.4301, polished 240 grain; Surface without visible joint
Leaf core	Sandwich construction, climate classification 2
Sealing	Circumferential rubber sealing in the frame, door leaf dull impacting

Frame

Closed frame	Two-piece, for dull impact of door leaf; stainless steel, steel grade 1.4301, polished 240 grain
Material strength	1.5 mm
Frame	50 mm
Frame overlap	ca. 10 mm, edges slightly rounded
Rabbit	Three-sided with extruded sealing profile, all-weather proof

Fittings

Lock	Mortise dead lock with stainless steel forend, class 3, restroom lock with one-way locking handle and display
Bands	Stainless steel bands 3D, type VX
Handle	Stainless steel latchkey set, optional push bars available
Cylinder	Prepared for profile cylinder as installed by client

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record CLEAN D1-A ST / D2-A ST

Automatic revolving door in steel finish

Optional equipment

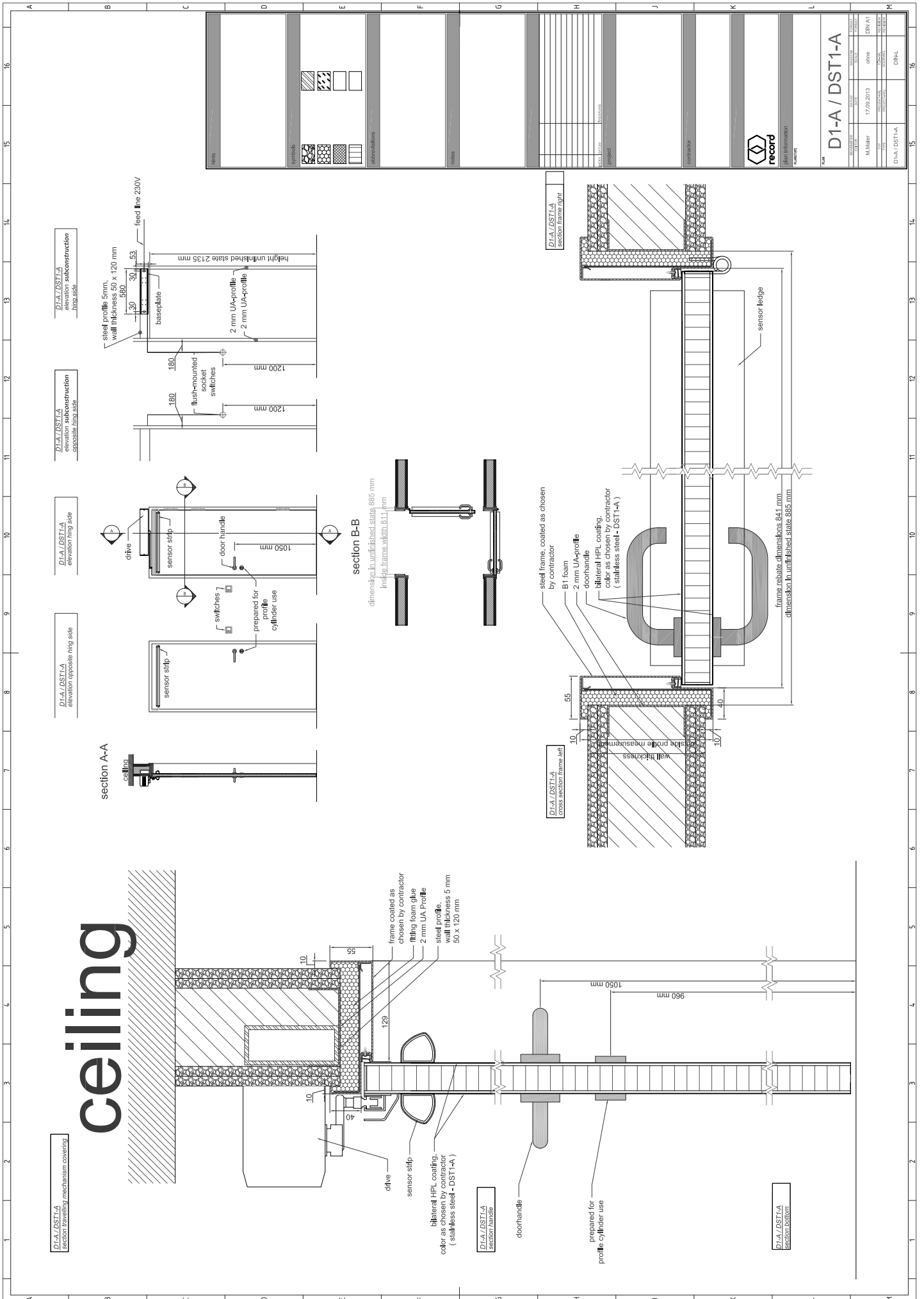
Window	Integrated window, mounted flush with the adjacent area of the door leaf in several optional designs for ray protection, laser protection, sound protection; also available with aluminum fringe and / or integrated blind
Door leaf with undercut	If hermetical sealing is not desired, the door leaf can be produced with up to 20mm undercut
Door closing array	Stainless steel door closing array (all common makes)
Security precautions	Motion detector, sensor bar, reverse automatic
Power supply	Electric connector 1 * 220 / 240 Volt, 50 / 60 Hz
Push-button	Push-button both inside and outside, KOS stainless steel program with abrasion-resistant laser-printed symbols
Locking device	Electromagnetic locking device with adjustable spring tension (adjustable from 0 to 60 seconds)
Lock	Mortise dead lock with stainless steel forend, class 3; with shoot bolt switch

Installation requirements

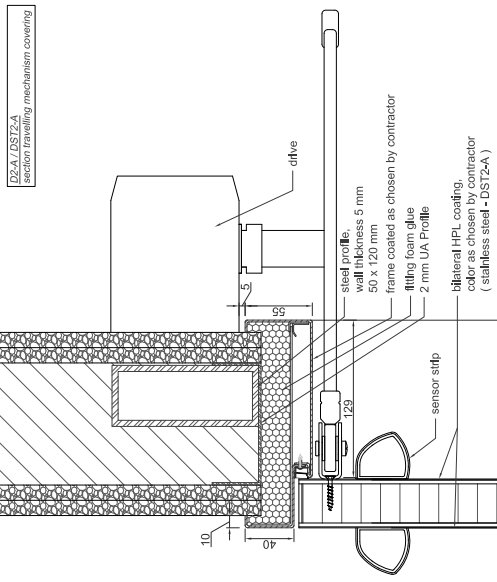
Walls	For mounting a door closing array, massive masonry, an architrave or - for truss systems - a steel caisson profile fortification (50 x 120 mm, wall strength 5 mm) above the passageway needs to be implemented by the contractor
Flooring	The flooring must be in its definitive state before starting the mounting of the doors

Special option models

Radiation protection	Optional
Moist room	All DST models are suitable for moist rooms due to the used materials

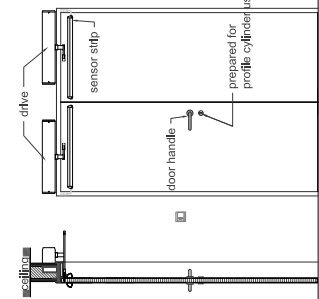


ceiling

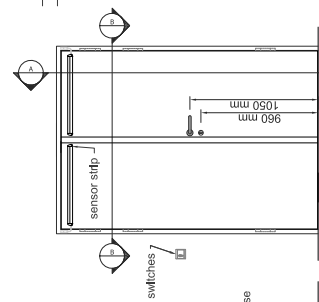


D2-A / DST2-A
section framing mechanism covering

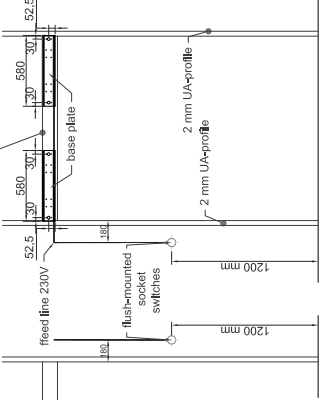
D2-A / DST2-A
operation opposite hing side



D2-A / DST2-A
operation hing side

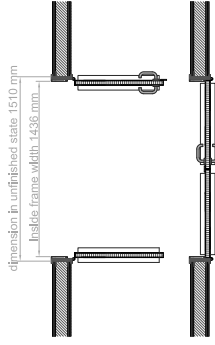


D2-A / DST2-A
operation opposite hing side

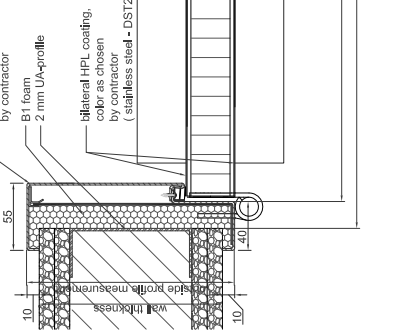


D2-A / DST2-A
elevation subconstruction
hing side

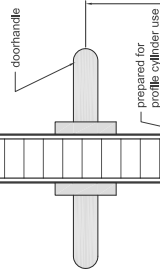
section B-B



D2-A / DST2-A
section frame left

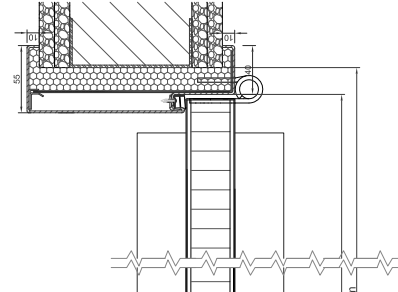


D2-A / DST2-A
section handle



D2-A / DST2-A
section feet

D2-A / DST2-A
section frame right



record Plan Information Version
D2-A / DST2-A
 13.04.2012 other DIN A1
 W. Abtler Project Contractor
 D2-A / DST2-A Project Contractor

DATE	NO.	DESCRIPTION
13.04.2012	01	Issue for construction

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Materials
Materials

Abbreviations

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D2-A / DST2-A			
DATE	NO.	DESCRIPTION	
13.04.2012	01	Issue for construction	DIN A1
W. Abtler (Project) / Contractor			

record AE 2

Automated drive for sliding door hermetically sealing



Brief description

Electric drive	Produced by KOS, type AE, 230V, 50 / 60 Hz, 40W (max. 500W)
Power connector box	Mounted on guide rail, connection to Control Box via plug-in cable
Control-Box	Mounted on guide rail, connector clamps for all activation purposes; time ajar, rolling resistance control, opening speed and closing speed programmable
Motor	40VDC, mounted on guide rail, connection to control box via plug-in cable, propulsion of door leaves via rubber tissue gear belt
Deflexion roller	Mounted on guide rail, guidance for rubber tissue gear belt with gear belt
Circuit breaker	2-pole, each 10A, potential equalization
Voltage	12V DC, 24V DC
Tolerable air humidity	10% to 93% without condensation
Tolerable operation temperature	0°C to +60°C
Opening speed	Adjustable from 0.1 to 0.5 m / sec
Closing speed	Adjustable from 0.1 to 0.5 m / sec
Time ajar	Adjustable up to 30 sec., standard value approx. 5 sec.

Security precautions

Sensors	Monitoring of door movement according to DIN 18650
Rolling resistance control	Electronic monitoring of rolling resistance when opening, door stops and remains stationary as soon as a resistance obstructs the operation of the door leaves

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record AE 2

Automated drive for sliding door hermetically sealing

Operation

Standard push-button push-button both inside and outside, KOS stainless steel program with abrasion-resistant laser-printed symbols

"Easy Come In"-function allows operation of automatic drive by pulling the door handle; in idle state possibility of manual operation through handles

Optional equipment

Opening initiators Non-contact sensor, direction detecting radar motion detectors, foot switches, baffle plates, key locks, code locks

Air lock function Electric interlock with other KOS-doors or doors of other producers via connecting line, visual locking display, electric lock, emergency stop button for instant unlocking

Electric lock Electric lock, 24 V, for control through code locks, switches, key-switches or interlocking (air-lock operation) with other doors

Integration into house system Fire alarm contact with follow-up functions, e.g. "open door" or "close door"

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record DFA 127

automatic drive system for swing doors



Brief description

The record DFA 127 is a universal drive system for the automation of swing doors. It is characterized by sophisticated technology, compact design and especially record's legendary smoothness of operation. The focus on a broad range of applications makes it a full-fledged drive, suitable for widely differing requirements.

Type of operation	Motor powered opening, spring closing
Electric drive	230VAC 50 / 60 Hz, rated power 67W, Standby 13W
Mounting	Lintel or door leaf, the power transmission from the drive to the door works by means of a bar, which, depending on the mounting situation is available as a standard or sliding arm.
Fuse	T2A
Voltage	24VDC, 1.0A
Tolerable air humidity	To 85% relative humidity, without condensation
Tolerable operation temperature	-15°C to +50°C
Opening angle	70 – 115° (INVERSE up to 95°)
Opening time	Adjustable 3 – 20 seconds
Closing time	Adjustable 5 – 20 seconds
Time ajar	Adjustable 0 bis 60 sec; default 2 sec
Operation	Operating modes with internal BDI operating switch, operating modes with BDE-D control panel with display (optional)

Security precautions

Sensors	Monitoring of door movement according to DIN 18650
Obstacle detection	The opening process stops at obstacles or obstructions, saves their position and returns to the closed state; the next attempt to open uses slow mode when crossing the position previously saved.
Reversal function	If an obstacle is detected during the closing phase, immediate reopening takes place.

Optional equipment

Opening initiators	Non-contact sensor, direction detecting radar motion detectors, foot switches, baffle plates, key locks, code locks
Air lock function	Interlocking with other record doors, or with doors by other manufacturers, requires function expansion modules



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record BDE-D

Electronic remote control unit with backlight display



Brief description

The BDE-D electronic control unit is a convenient input and output unit for the control and programming of control units in record door openers. Logically arranged pushbuttons permit an intuitive operation of the door and navigation through the drivespecific menu structure. The LCD display with background lighting provides data and information regarding the status of the door by means of symbols and plain text messages.

Operation	Adjustment of operating modes, automatic operation, continuously open, one-way operation, locked and manual operation, or reduced opening width.
Parameterization	Setting the characteristics of the door by adjusting the opening and closing speeds, hold-open time, opening width or angle, closing force assistance, etc.
Versions	Square (60 x 60mm) and slim-line (44 x 92mm), built-in and surface-mounted versions
Display	LCD, 112 x 64 Pixel, with backlight
Installation depth	At least 13 mm
Power supply	24VDC, consumption <2W
Temperature range	-15°C to +50°C

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Push-buttons and switches

Push-button and switch-program

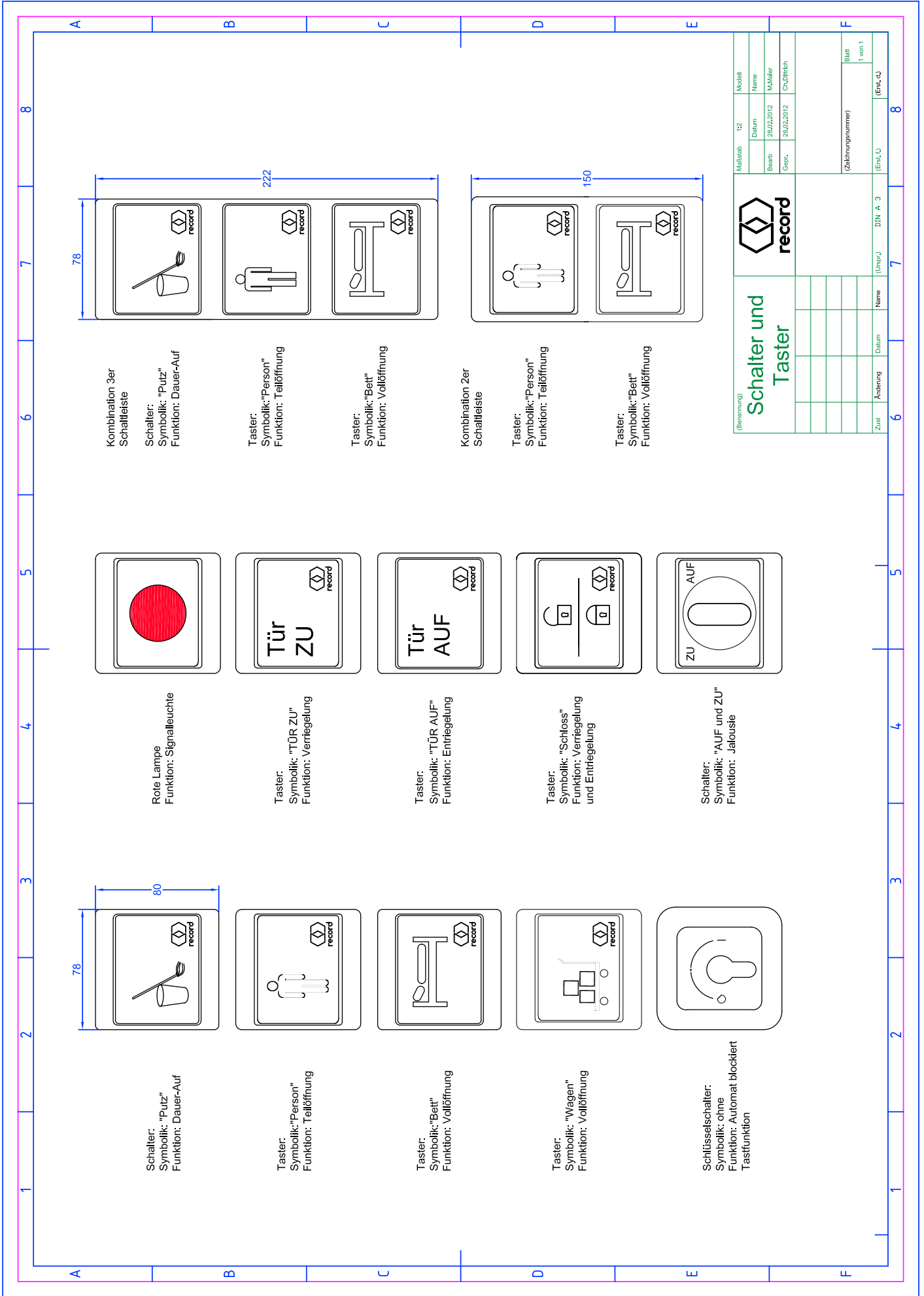


Brief description

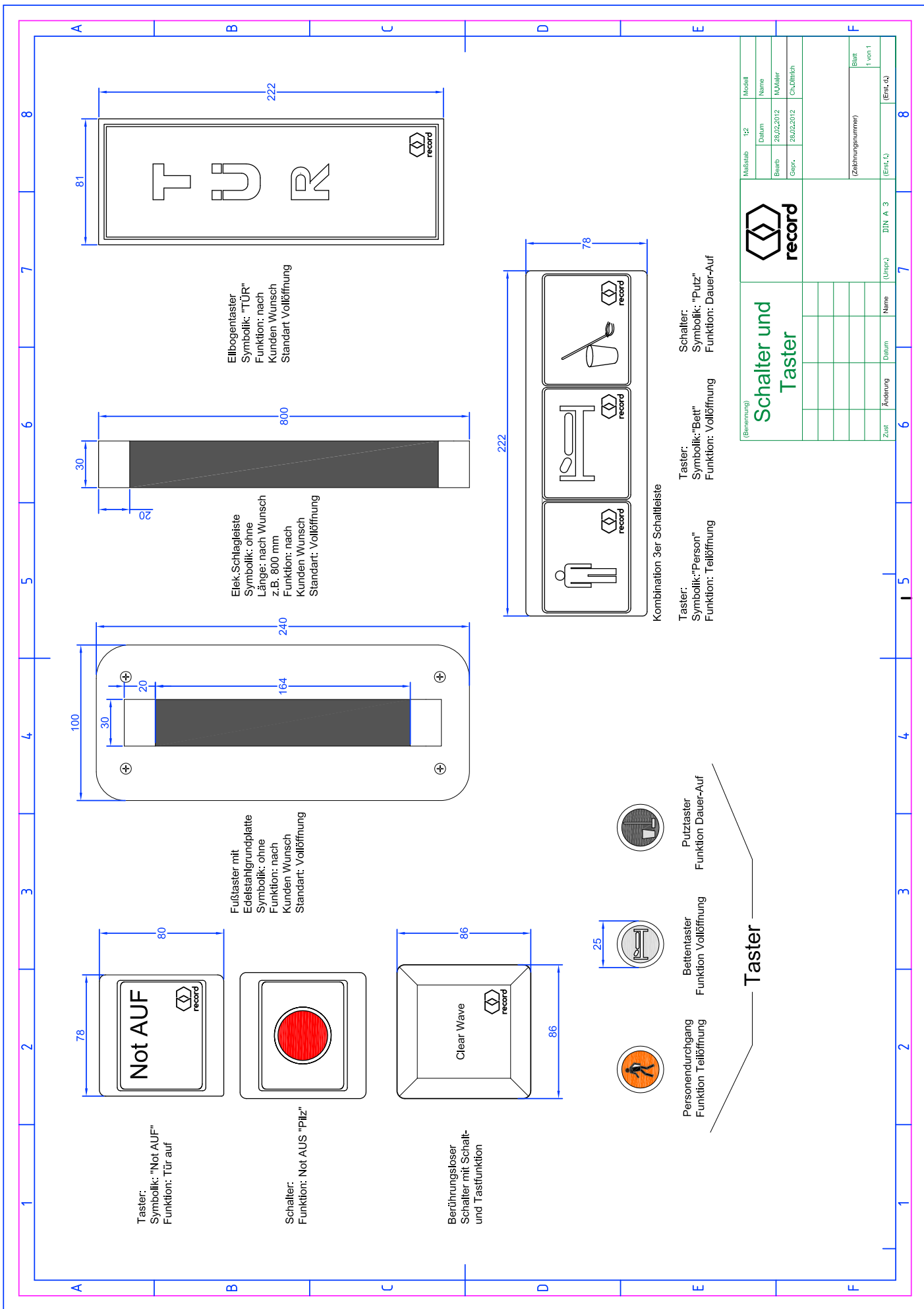
The switches and buttons programme contains a wide variety of versions for all conceivable applications

Push-buttons and switches	Sensor functions and laser imprint alterable on request
Frame	Framing variable from single to multiple frame, horizontal or vertical choice options
Personal button	Push-button for partial or complete opening of the door at customers option
Bed button	Push-button for complete opening the door
Cleaning button	Push-button for constant opening of the door
Elbow button	Push-button. Function at customers option
Key switch	Push-button or switch for locking the door
Red light	As visual signal, e.g. during x-ray operation, locked door or door in air lock function with other doors
Blind control switch	For lifting, lowering and opening the blinds
Emergency release button	Push-button for bypassing e.g. air lock function
Emergency stop mushroom button	Circuit breaker for shut down of entire electric supply
Pedal-button	Foot switch on stainless steel base plate, function at customers option
Baffle plate	Electric baffle plate, length variable, function at customers option
Frame-button-sensor (K3)	Functions as with personal, bed and cleaning buttons
Motion detector	Direction detecting radar motion detectors with door opening function

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Schalter und Taster		Modell	122
		Name	
		Datum	28/02/2012
		Bezeichnet	M.Müller
		Gepr.	26/02/2012
		Ch. Dittman	
		(Zählungnummer)	
		Blatt	1 von 1
Zust.	Änderung	Datum	Name
			(Urspr.) Ditt. A. 3
			(Entw.)



Certification of Quality

Seals made of EPDM Foam Rubber

Composition

Base polymer	EPDM terpolymer is made of ethylene, propylene and a third diene component. Its structure consists of a methylene chain; this results in the special properties of EPDM rubber.
Fillers	Mineral materials such as chalk, talc or kaolin Synthetic materials such as carbon black, silica or specially matched mixtures
Softeners	Multiple refined paraffin oils
Crosslinkers	Unconventional without sulphur

Features

Density according to DIN 53479 A	between 0.4 und 0.8g/cm ³
Compressive strength according to DIN 53577	depending on the density setting of vulcanization
Compression set according to DIN 53517	depending on prescription 10 – 90%
Mechanical properties	average elongation at break and tear strength, medium elasticity
Temperature resistance	under static load the limits of use are between –35 °C and 120 °C, short-term exceedances are possible
Aging resistance	due to the completely unsaturated methyl chain of EPDM, outstanding protection from light, ozone and weathering
Storage stability according to DIN 7716	at room temperatures of about 20 °C, protected from light and humidity: more than 10 years
Chemical resistance	good to excellent resistance towards water, aqueous salt solutions, alcohols, glycols, ketones and acids limited resistance towards strong oxidizing fluids such as nitric acid and organic media with the same polar and lipophilic character such as long-chain alcohols and ketones.

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Certification of Quality

Seals made of EPDM Soft Rubber

Composition

Base polymer	EPDM terpolymer is made of ethylene, propylene and a third diene component. Its structure consists of a methylene chain; this results in the special properties of EPDM rubber.
Fillers	Mineral materials such as chalk, talc or kaolin Synthetic materials such as carbon black, silica or specially matched mixtures
Softeners	Multiple refined paraffin oils
Crosslinkers	Conventional sulphur and sulphur donors Unconventional without sulphur

Features

Density according to DIN 53479 A	between 1.0 to 1.5g/cm ³
Hardness according to DIN 53377	depending on prescription
Compression set according to DIN 53517	depending on prescription
Mechanical properties	average elongation at break and tear strength, medium elasticit
Temperature resistance	under static load the limits of use are between -35°C and 120 °C, short-term exceedances are possible
Aging resistance	due to the completely unsaturated methyl chain of EPDM, outstanding protection from light, ozone and weathering
Storage stability according to DIN 7716	at room temperatures of about 20°C, protected from light and humidity: more than 10 years
Chemical resistance	good to excellent resistance towards water, aqueous salt solutions, alcohols, glycols, ketones and acids limited resistance towards strong oxidizing fluids such as nitric acid and organic media with the same polar and lipophilic character such as long-chain alcohols and ketones.

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Cleaning and care instructions

Information for cleaning and care of surfaces and glass

Laminated surfaces

High-pressure laminates according to DIN EN 438-1 are decorative surfaces and available in almost unlimited variations, decors and colours. They are distinguished by chemical resistance, high resilience and high temperature resistance.

Many possible applications result from this.

Cleaning of laminated surfaces

HPL laminates are easy to clean and disinfect and show high resistance to organic solvents. Abrasive cleaning materials should not be used as the surface can be damaged.

Aluminium surfaces

Anodised aluminium parts combine many benefits. Good machining and high strength of the material; the anodised surface stands for protective effect and low maintenance. Due to the very hard and resistant oxide layer, oxidised parts can be particularly well liberated from persistent dirt and are not susceptible to scratches.

Cleaning of anodised aluminium surfaces

For maintenance of the decorative appearance, periodic cleaning and care adapted to the degree of soiling and the requirements for the decorative appearance must therefore be carried out.

Anodised surfaces are cleaned with warm water, to which a chlorine-free cleaning agent (e.g. detergent) is added.

Only a cloth or sponge and water should be used. In the case of severely soiled surfaces, we recommend the use of special anodised aluminium cleaners whose cleaning effect is achieved using abrasives.

Stainless steel surfaces

Stainless steel is distinguished by high resistance to external influences on the surface such as corrosion resistance, temperature resistance, wear resistance and durability. These are optimum material properties to be used in the areas of medical, laboratory and pharmaceutical technology with high hygiene requirements and in food processing.

Cleaning stainless steel surfaces

Clean the surfaces with warm water, all-purpose or neutral cleaners, special stainless steel cleaner for persistent soiling.

Use solvent cleaners or disinfectants if required.

Do not use any cleaning agents containing hydrochloric acid; these result in discolouration or pitting. Do not use any fibre materials or brushes containing abrasives; these cause extraneous rust due to abrasion.

Polished stainless steel surfaces must always be cleaned in the polishing direction.

Powder coating (final coating)

Plastic powder coating is an optimum finish variant and is distinguished by quality features such as: high hardness, high elasticity and impact deformability and gloss and colour retention.

Cleaning powder coated surfaces

Coated parts should not undergo any subsequent machining or mechanical deformations as these can result in local damage to the coating and thus to weakening of the corrosion protection.

Cleaning of powder coated surfaces must be matched to the degree of soiling. Slight soiling should only be removed with neutral cleaning agents and heavier soiling with special cleaners which are permitted to contain degreasers. Strong alkaline, acidic or abrasive substances must not be used.

See-through windows

Laminated safety glass must be handled exactly the same as normal laminated glass. No special cleaning agents or equipment are required for conventional laminated glass. The glass is scratch-resistant, easy to handle and has long durability.



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Cleaning and care instructions

Information for cleaning and care of surfaces and glass

Cleaning of glass

No dry cleaning!

Spray glass generously with water to soften and detach hard abrasive particles.

Then clean using a dry, soft and clean cloth. Remove grease and sealant residues using commercially available solvents and rinse with water afterwards.

Do not use abrasive cleaning agents until after the surface has first been substantially moistened.

Cleaning of radiation shielding glass

Due to the high lead oxide content, the surfaces are more sensitive to scratching and acids and alkalis than normal window glass. Only use water, mild cleaning agents and a soft cloth. Always wipe glass dry. Radiation shielding glass must never be exposed to moisture or temperature fluctuations in combination with moisture and acidic air. Commercially available disinfectants and disinfection using UV irradiation are possible.

The following are generally applicable for all surfaces and materials: Completely remove residues of cleaning agents using clean water.

Strictly comply with the manufacturer's instructions for use.

We shall not accept any liability for improper operation, abrasion, natural wear and tear and damage due to defective care or maintenance.

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