record CLEAN

Automatic door systems for environments with special requirements

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Infopackage

Content

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, 24 V 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 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 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

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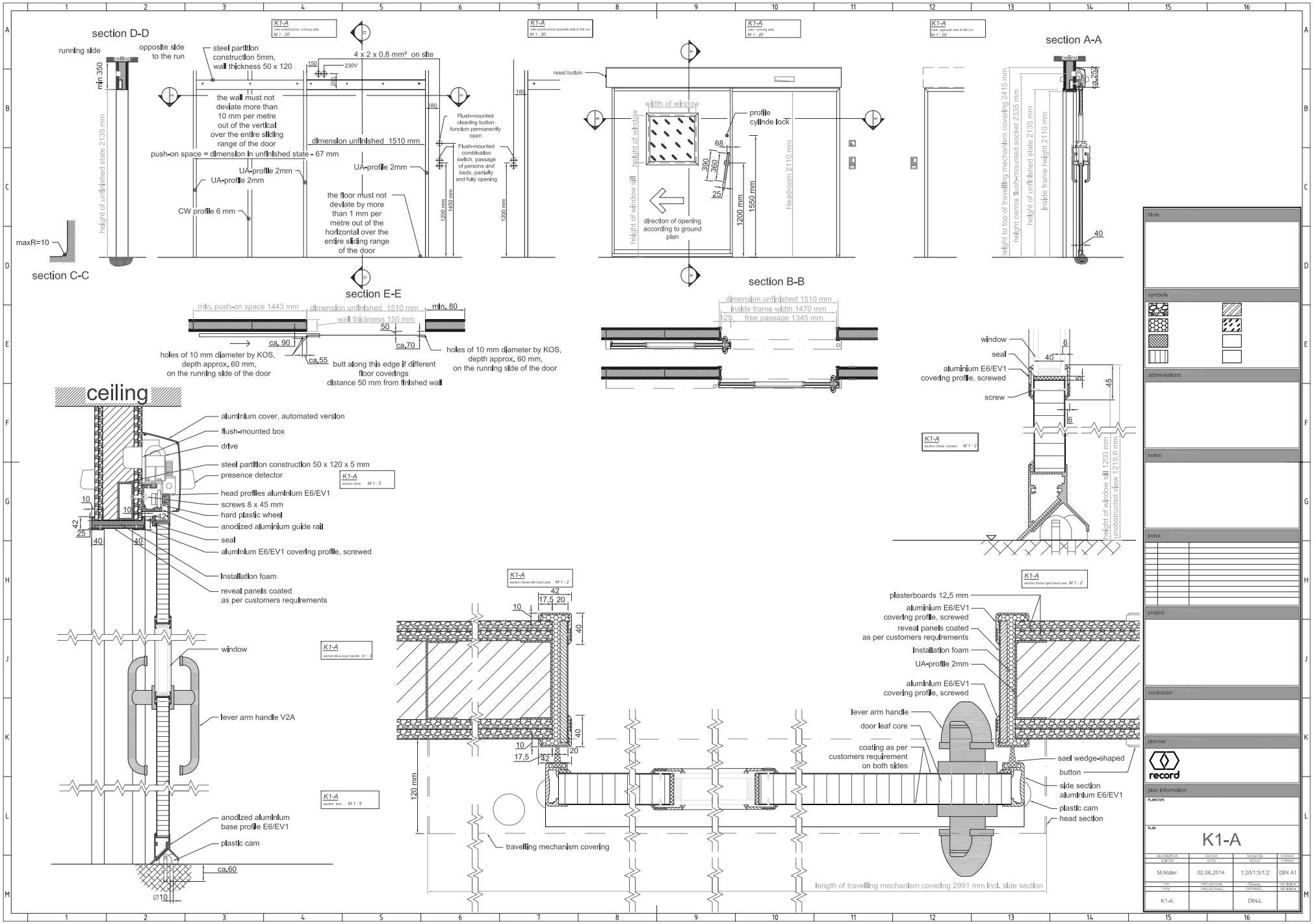
section D-D
running side
opposite side to the run
ceiling
min 350
steel partition construction 5mm, wall thickness 50 x 120
4 x 2 x 0,8 mm² on site
230V
150
200
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
push-on space = dimension in unfinished state - 67 mm
dimension unfinished 1510 mm
Flush-mounted cleaning button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
UA-profile 2mm
UA-profile 2mm
UA-profile 2mm
CW profile 6 mm
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
height of unfinished state 2135 mm
1200 mm
1450 mm
180
reset button
maxR=10
section C-C
section E-E
min. push-on space 1443 mm
dimension unfinished 1510 mm
wall thickness 150 mm
min. 80
50
ca. 90
ca.70
ca.55
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
butt along this edge if different floor coverings distance 50 mm from finished wall
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
width of window
height of window
height of window sill
profile cylinde lock
68
390
360
25
1200 mm
1550 mm
Headroom 2110 mm
direction of opening according to ground plan
section B-B
dimension unfinished 1510 mm
inside frame width 1470 mm
125 free passage 1345 mm
section A-A
ceiling
252
225
40
height to top of travelling mechanism covering 2415 mm
height centre flush-mounted socket 2335 mm
height of unfinished state 2135 mm
inside frame height 2110 mm
ceiling
aluminium cover, automated version
flush-mounted box
drive
steel partition construction 50 x 120 x 5 mm
presence detector
head profiles aluminium E6/EV1
screws 8 x 45 mm
hard plastic wheel
anodized aluminium guide rail
seal
aluminium E6/EV1 covering profile, screwed
Installation foam
reveal panels coated as per customers requirements
window
lever arm handle V2A
anodized aluminium base profile E6/EV1
plastic cam
ca.60
Ø10
K1-A section drive M 1 : 5
K1-A section Bow-type handle M 1 : 5
K1-A section foot M 1 : 5
window
seal
aluminium E6/EV1 covering profile, screwed
screw
6
40
45
6
height of window sill 1200 mm
unobstructed view 1219.6 mm
K1-A section Detail window M 1 : 2
K1-A section frame left-hand side M 1 : 2
42
17,5
20
10
40
120 mm
travelling mechanism covering
K1-A section frame right-hand side M 1 : 2
plasterboards 12.5 mm
aluminium E6/EV1 covering profile, screwed
reveal panels coated as per customers requirements
Installation foam
UA-profile 2mm
aluminium E6/EV1 covering profile, screwed
lever arm handle
door leaf core
coating as per customers requirement on both sides
sael wedge-shaped
button
side section aluminium E6/EV1
plastic cam
head section
length of travelling mechanism covering 2991 mm incl. side section
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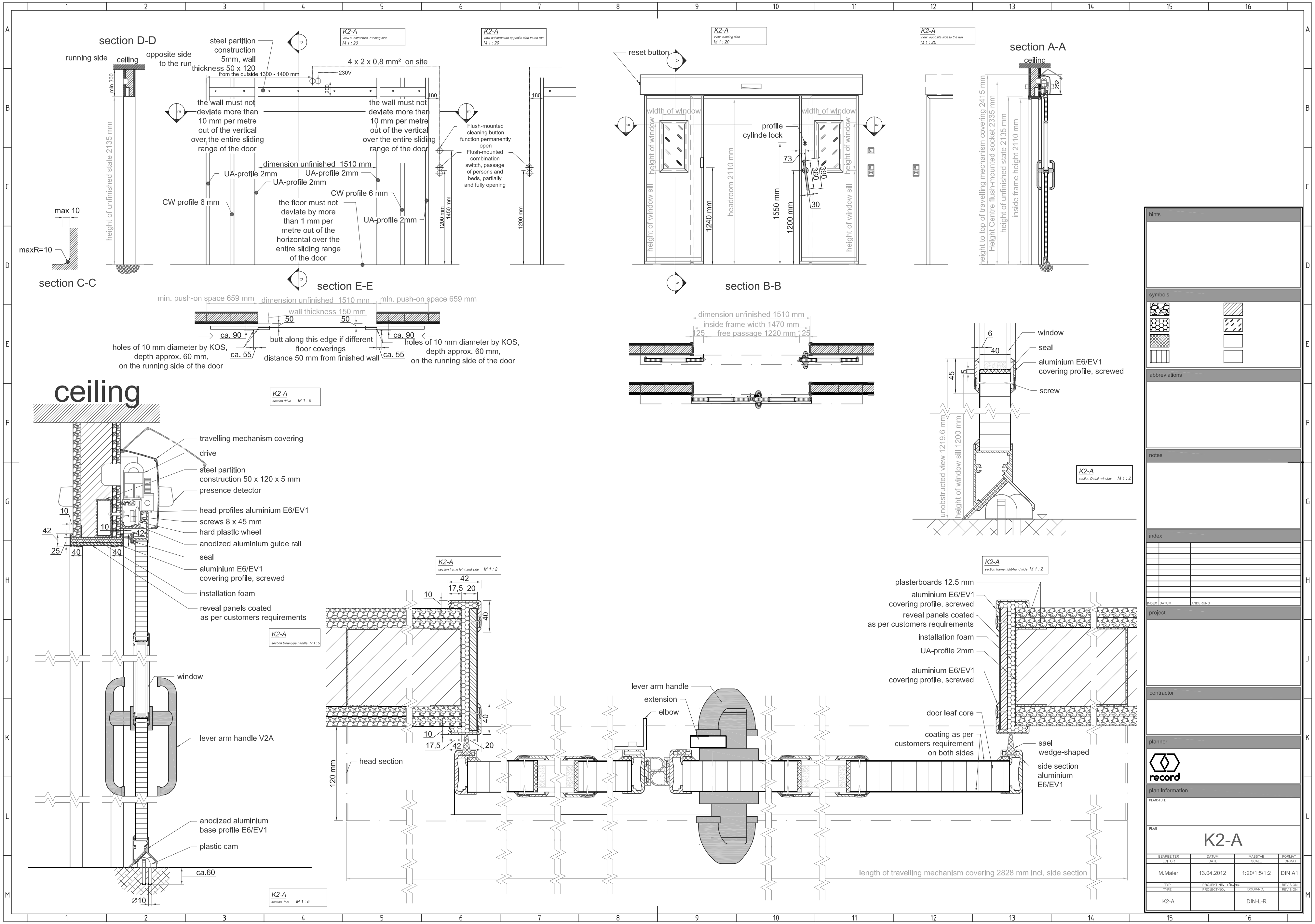

section D-D
running side
ceiling
opposite side to the run
steel partition construction 5mm, wall thickness 50 x 120
from the outside 1300 - 1400 mm
4 x 2 x 0,8 mm² on site
230V
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
dimension unfinished 1510 mm
UA-profile 2mm
CW profile 6 mm
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
Flush-mounted cleaning button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
height of unfinished state 2135 mm
max 10
maxR=10
section C-C
section E-E
min. push-on space 659 mm
wall thickness 150 mm
butt along this edge if different floor coverings distance 50 mm from finished wall
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
reset button
width of window
height of window sill
profile cylinde lock
headroom 2110 mm
section B-B
inside frame width 1470 mm
free passage 1220 mm
section A-A
height to top of travelling mechanism covering 2415 mm
Height Centre flush-mounted socket 2335 mm
inside frame height 2110 mm
ceiling
travelling mechanism covering
drive
steel partition construction 50 x 120 x 5 mm
presence detector
head profiles aluminium E6/EV1
screws 8 x 45 mm
hard plastic wheel
anodized aluminium guide rail
seal
aluminium E6/EV1 covering profile, screwed
installation foam
reveal panels coated as per customers requirements
window
lever arm handle V2A
anodized aluminium base profile E6/EV1
plastic cam
window
seal
aluminium E6/EV1 covering profile, screwed
screw
unobstructed view 1219,6 mm
height of window sill 1200 mm
plasterboards 12,5 mm
UA-profile 2mm
lever arm handle
extension
elbow
door leaf core
coating as per customers requirement on both sides
sael wedge-shaped
side section aluminium E6/EV1
head section
length of travelling mechanism covering 2828 mm incl. side section
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M.Maier
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DIN A1
DIN-L-R

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 dB – 42 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 / m² – approx. 67.3 kg / m²
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))

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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 / m²
Surface weight Pb 2	approx. 38.6 kg / m²
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)

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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

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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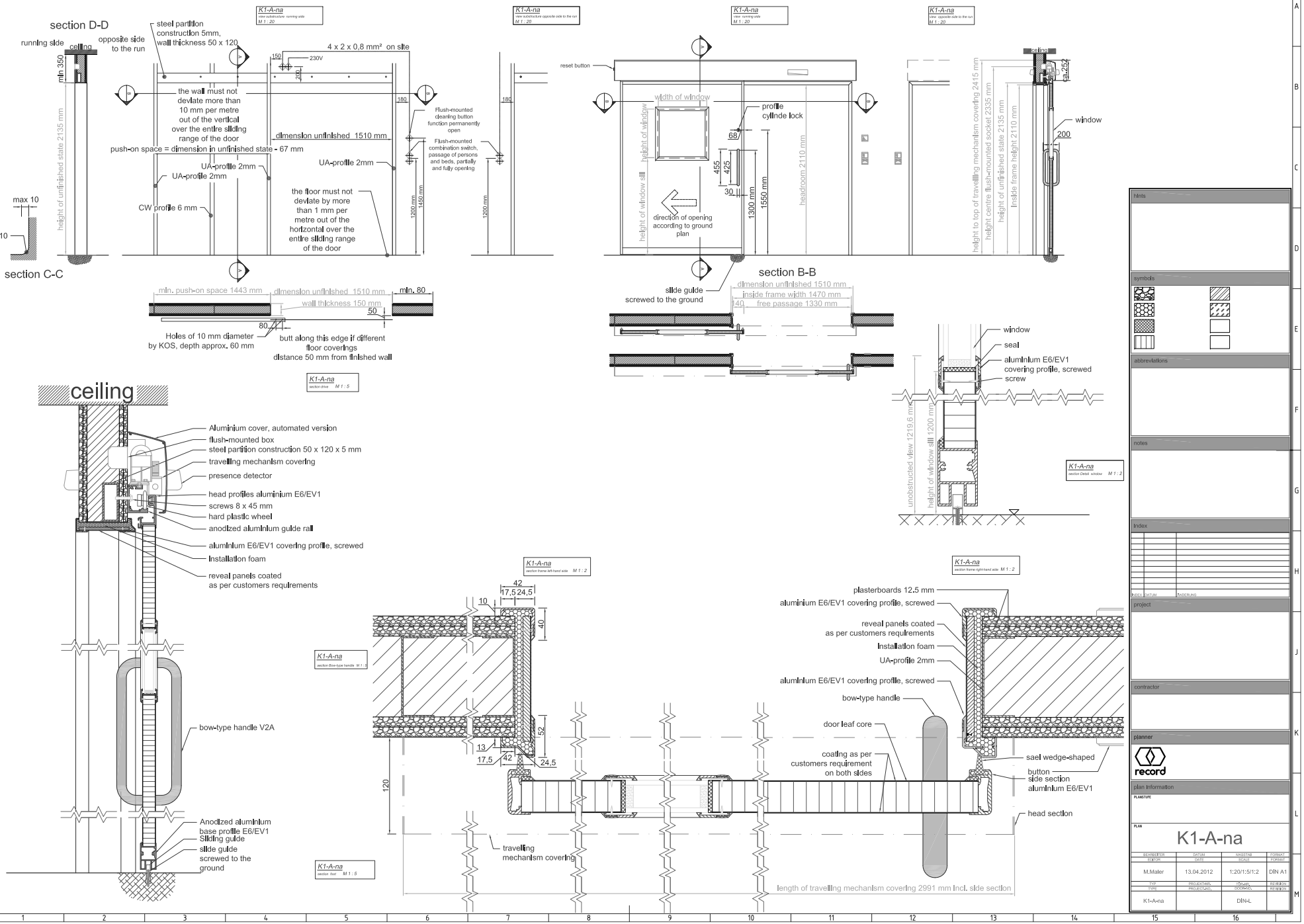
section D-D
running side
ceiling
opposite side to the run
steel partition construction 5mm, wall thickness 50 x 120
4 x 2 x 0,8 mm² on site
230V
min 350
height of unfinished state 2135 mm
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
push-on space = dimension in unfinished state - 67 mm
dimension unfinished 1510 mm
UA-profile 2mm
UA-profile 2mm
CW profile 6 mm
Flush-mounted clearing button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
1200 mm
1450 mm
max 10
maxR=10
section C-C
min. push-on space 1443 mm
dimension unfinished 1510 mm
wall thickness 150 mm
min. 80
50
80
Holes of 10 mm diameter by KOS, depth approx. 60 mm
butt along this edge if different floor coverings distance 50 mm from finished wall
K1-A-na
reset button
width of window
height of window
height of window sill
profile cylinde lock
68
455
425
30
1300 mm
1550 mm
headroom 2110 mm
direction of opening according to ground plan
section B-B
slide gulde screwed to the ground
dimension unfinished 1510 mm
inside frame width 1470 mm
40
free passage 1330 mm
ceiling
height to top of travelling mechanism covering 2415 mm
height centre flush-mounted socket 2335 mm
height of unfinished state 2135 mm
inside frame height 2110 mm
252
window
200
window
seal
aluminium E6/EV1 covering profile, screwed
screw
unobstructed view 1219.6 mm
height of window sill 1200 mm
ceiling
Aluminium cover, automated version
flush-mounted box
steel partition construction 50 x 120 x 5 mm
travelling mechanism covering
presence detector
head profiles aluminium E6/EV1
screws 8 x 45 mm
hard plastic wheel
anodized aluminium gulde rail
aluminium E6/EV1 covering profile, screwed
Installation foam
reveal panels coated as per customers requirements
bow-type handle V2A
Anodized aluminium base profile E6/EV1
Sliding gulde
slide gulde screwed to the ground
42
17,5
24,5
10
40
52
13
17,5
42
24,5
120
travelling mechanism covering
plasterboards 12.5 mm
aluminium E6/EV1 covering profile, screwed
reveal panels coated as per customers requirements
Installation foam
UA-profile 2mm
aluminium E6/EV1 covering profile, screwed
bow-type handle
door leaf core
coating as per customers requirement on both sides
sael wedge-shaped
button side section aluminium E6/EV1
head section
length of travelling mechanism covering 2991 mm Incl. side section
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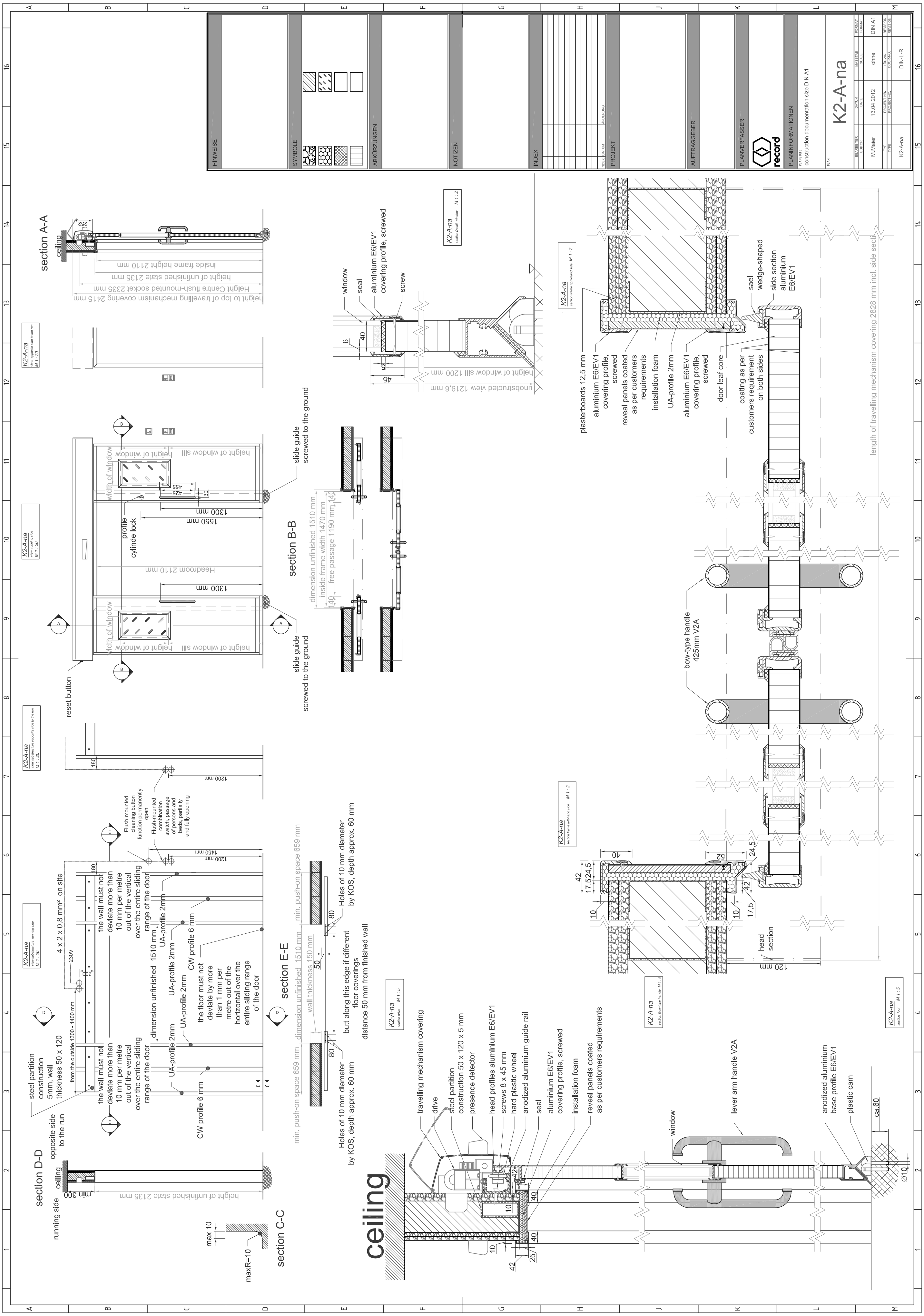
section A-A
section B-B
section C-C
section D-D
section E-E
ceiling
running side
opposite side to the run
reset button
slide guide screwed to the ground
profile cylinde lock
bow-type handle 425mm V2A
lever arm handle V2A
window
head section
travelling mechanism covering
drive
presence detector
plasterboards 12.5 mm
installation foam
UA-profile 2mm
CW profile 6 mm
door leaf core
length of travelling mechanism covering 2828 mm incl. side section
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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

Opotional 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 / m²

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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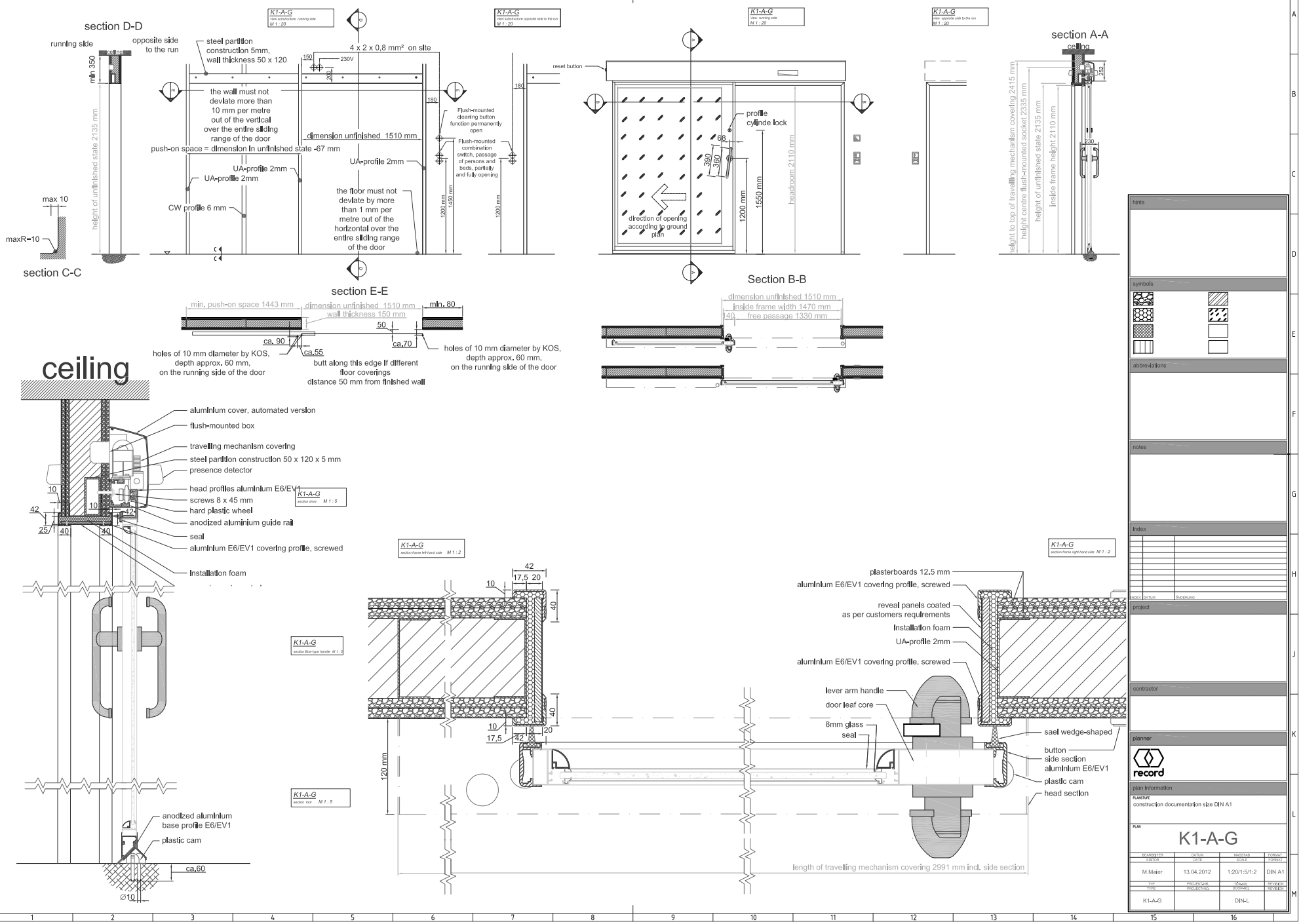
section D-D
running side
opposite side to the run
ceiling
min. 350
height of unfinished state 2135 mm
steel partition construction 5mm, wall thickness 50 x 120
4 x 2 x 0,8 mm² on site
230V
150
200
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
push-on space = dimension in unfinished state -67 mm
dimension unfinished 1510 mm
180
Flush-mounted clearing button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
UA-profile 2mm
UA-profile 2mm
UA-profile 2mm
CW profile 6 mm
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
1200 mm
1450 mm
1200 mm
max 10
maxR=10
section C-C
section E-E
min. push-on space 1443 mm
dimension unfinished 1510 mm
wall thickness 150 mm
min. 80
50
ca. 90
ca.55
ca.70
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
butt along this edge if different floor coverings distance 50 mm from finished wall
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
reset button
profile cylinde lock
68
380
380
1200 mm
1550 mm
headroom 2110 mm
direction of opening according to ground plan
Section B-B
dimension unfinished 1510 mm
inside frame width 1470 mm
40
free passage 1330 mm
section A-A
ceiling
height to top of travelling mechanism covering 2415 mm
height centre flush-mounted socket 2335 mm
height of unfinished state 2135 mm
inside frame height 2110 mm
230
ceiling
aluminium cover, automated version
flush-mounted box
travelling mechanism covering
steel partition construction 50 x 120 x 5 mm
presence detector
head profiles aluminium E6/EV1
screws 8 x 45 mm
hard plastic wheel
anodized aluminium guide rail
seal
aluminium E6/EV1 covering profile, screwed
Installation foam
anodized aluminium base profile E6/EV1
plastic cam
ca.60
Ø10
10
42
10
42
25
40
40
K1-A-G section drive M 1 : 5
K1-A-G section floor M 1 : 5
K1-A-G section Bow-type handle M 1 : 5
K1-A-G section frame left-hand side M 1 : 2
42
17,5
20
10
40
40
10
17,5
42
20
120 mm
K1-A-G section frame right-hand side M 1 : 2
plasterboards 12.5 mm
aluminium E6/EV1 covering profile, screwed
reveal panels coated as per customers requirements
Installation foam
UA-profile 2mm
aluminium E6/EV1 covering profile, screwed
lever arm handle
door leaf core
8mm glass
seal
sael wedge-shaped
button
side section aluminium E6/EV1
plastic cam
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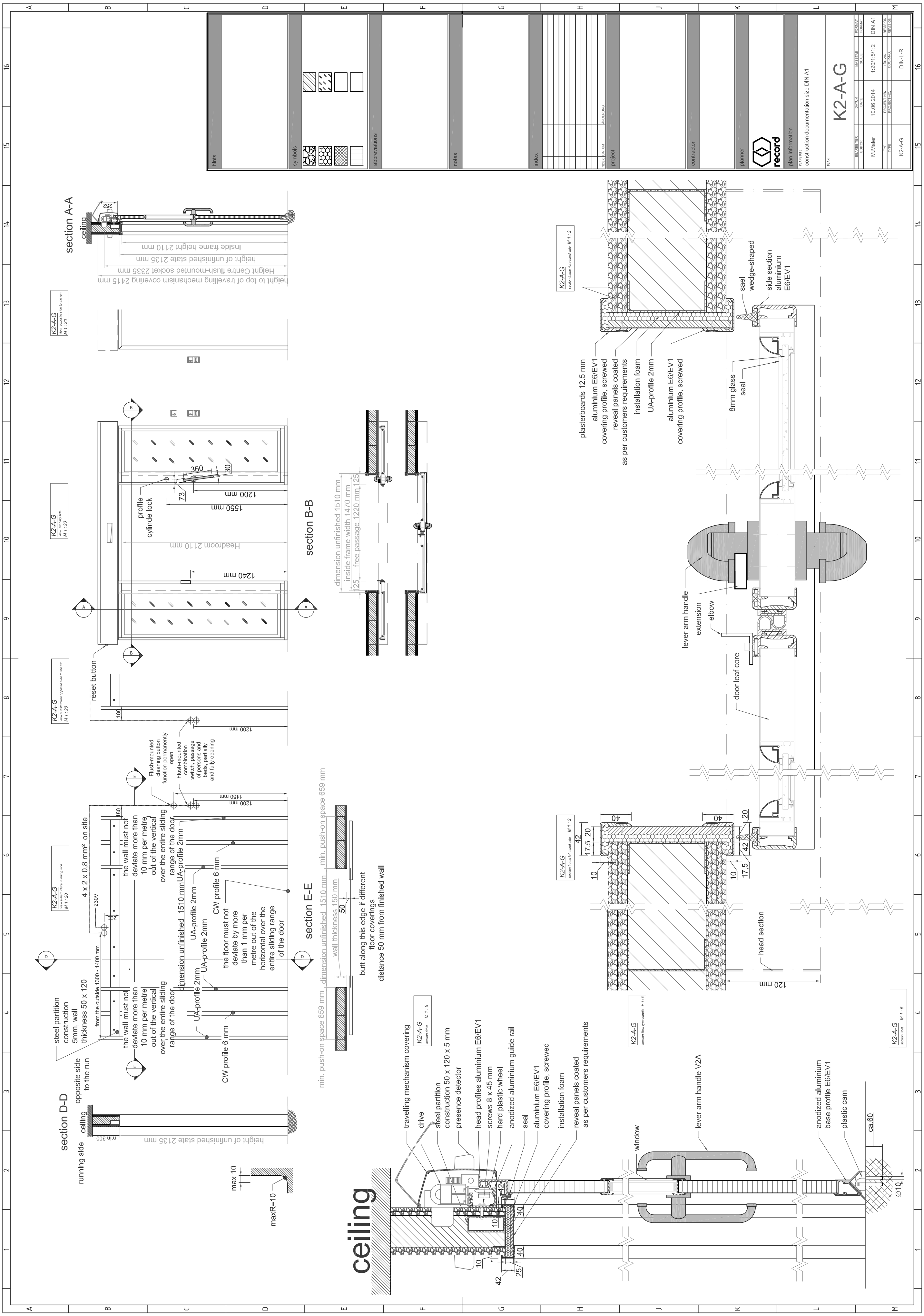
section A-A
ceiling
height to top of travelling mechanism covering 2415 mm
Height Centre flush-mounted socket 2335 mm
height of unfinished state 2135 mm
Inside frame height 2110 mm
section B-B
profile cylinde lock
Headroom 2110 mm
1550 mm
1200 mm
1240 mm
dimension unfinished 1510 mm
inside frame width 1470 mm
free passage 1220 mm
reset button
Flush-mounted cleaning button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
section D-D
running side
opposite side to the run
steel partition construction 5mm, wall thickness 50 x 120
4 x 2 x 0,8 mm² on site
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
UA-profile 2mm
CW profile 6 mm
dimension unfinished 1510 mm
section E-E
min. push-on space 659 mm
wall thickness 150 mm
butt along this edge if different floor coverings distance 50 mm from finished wall
max 10
maxR=10
ceiling
travelling mechanism covering
drive
steel partition construction 50 x 120 x 5 mm
presence detector
head profiles aluminium E6/EV1
screws 8 x 45 mm
hard plastic wheel
anodized aluminium guide rail
seal
aluminium E6/EV1 covering profile, screwed
Installation foam
reveal panels coated as per customers requirements
window
lever arm handle V2A
anodized aluminium base profile E6/EV1
plastic cam
ca.60
Ø10
head section
120 mm
door leaf core
lever arm handle
extension
elbow
8mm glass
seal
plasterboards 12.5 mm
UA-profile 2mm
sael wedge-shaped
side section aluminium E6/EV1
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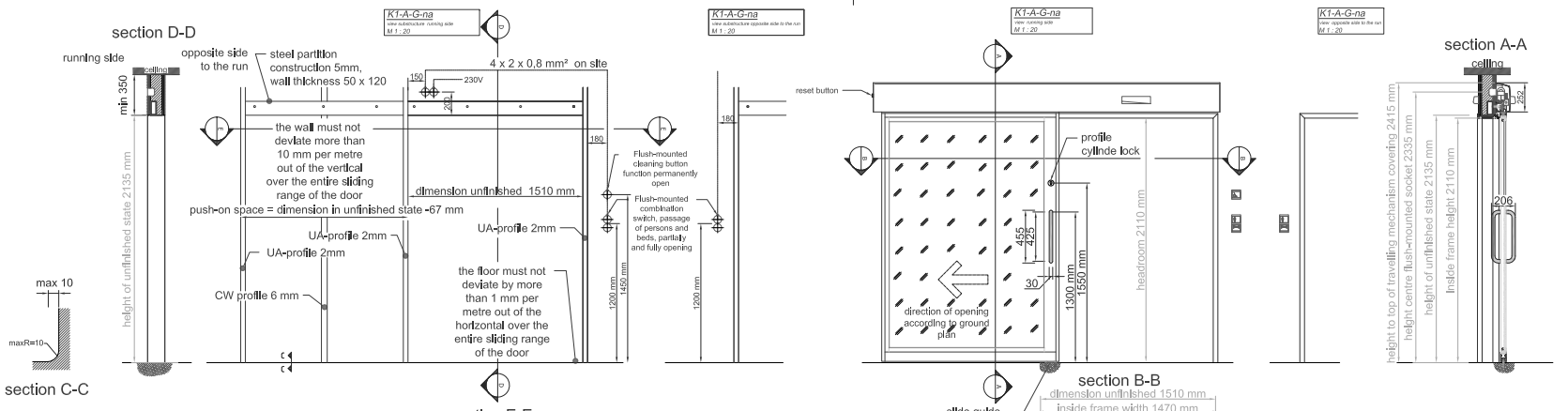

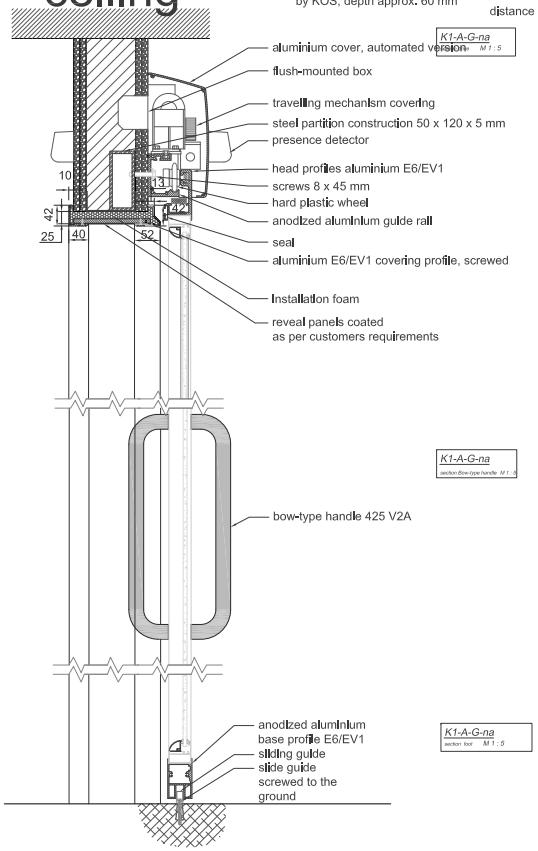

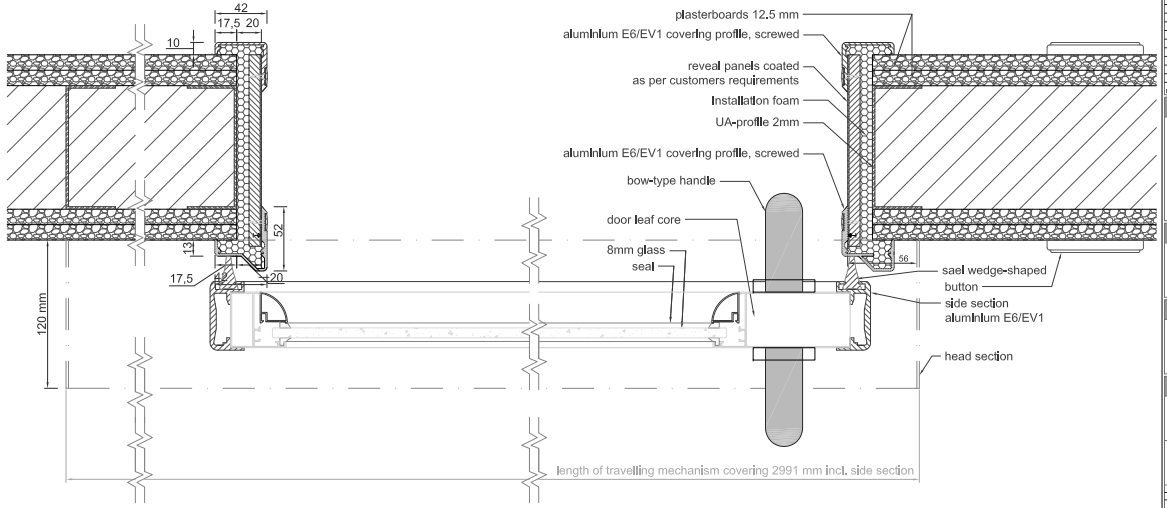

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K1-A-G-na		DIN-L	

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

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, 24 V 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 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 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
	For floor coverings with fillets towards the wall, the radius of the fillet must not exceed 10 mm in the entire operation area of the door, for otherwise the door may be obstructed

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

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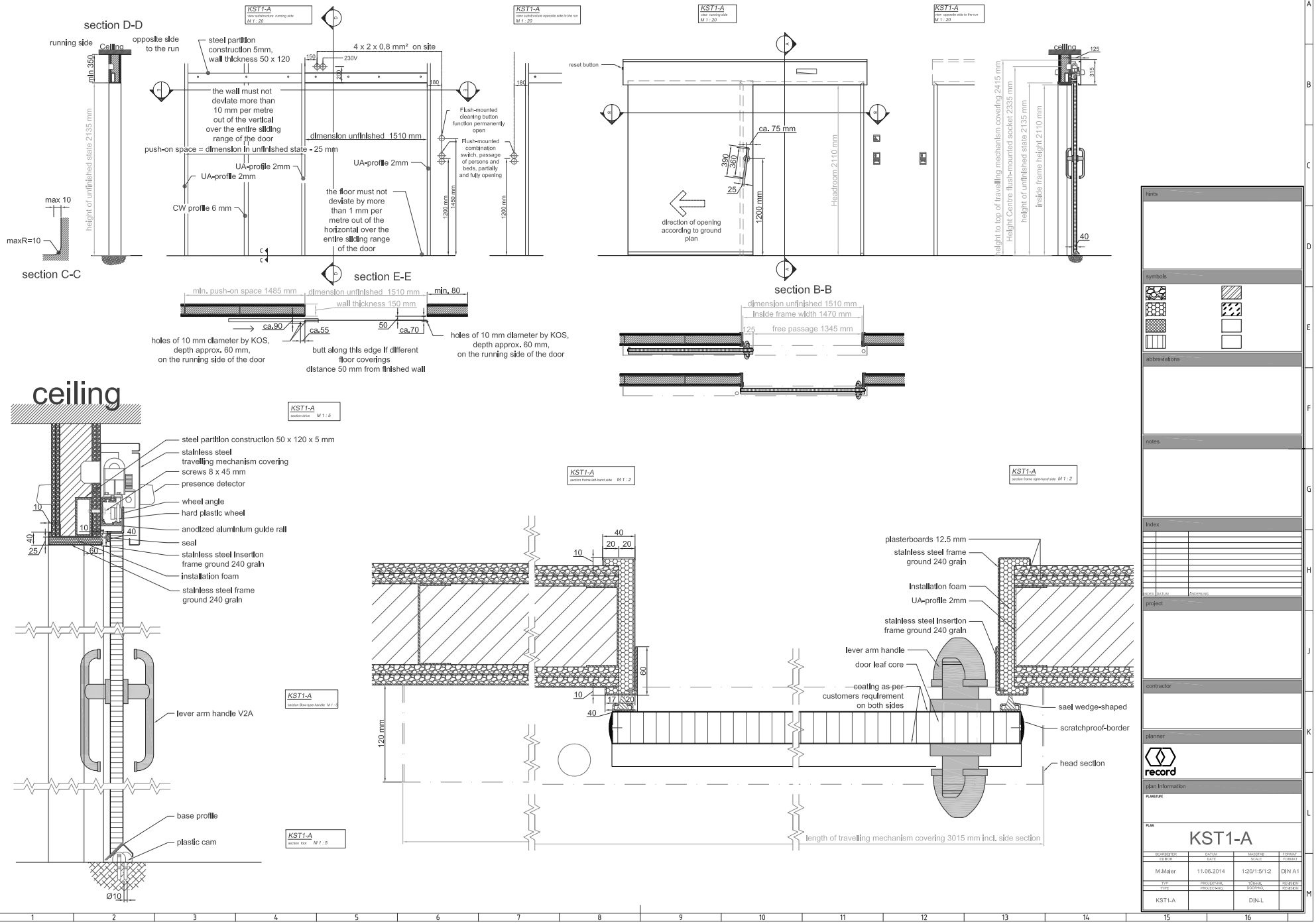
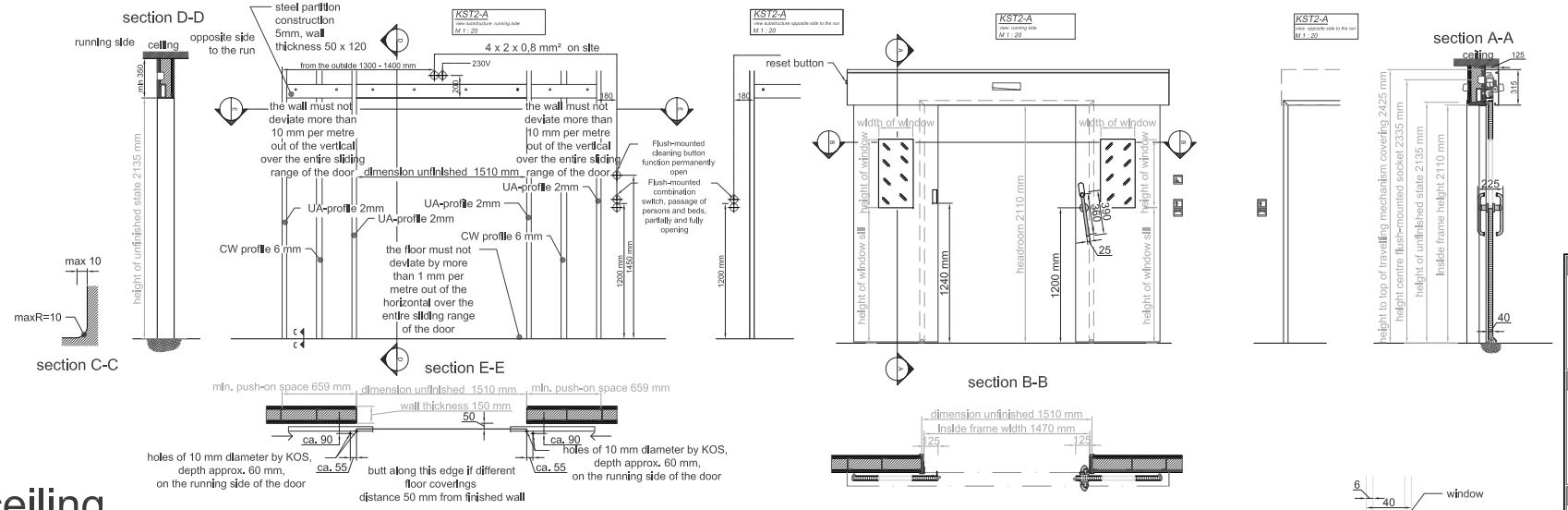
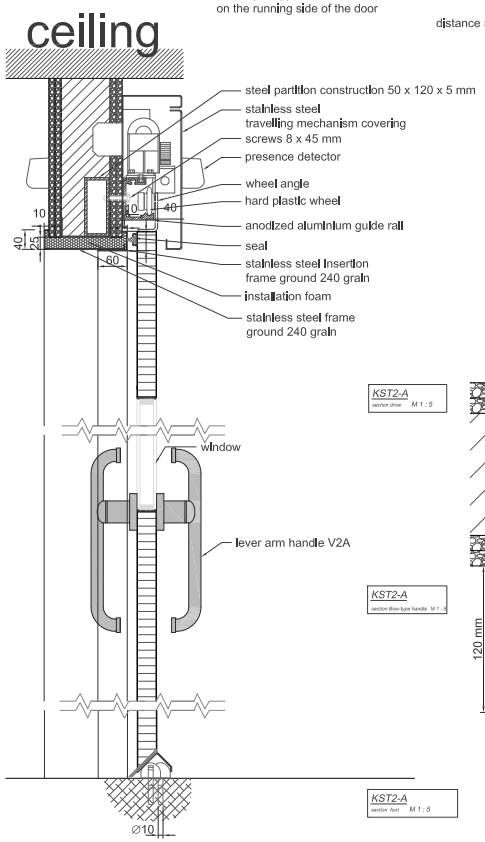
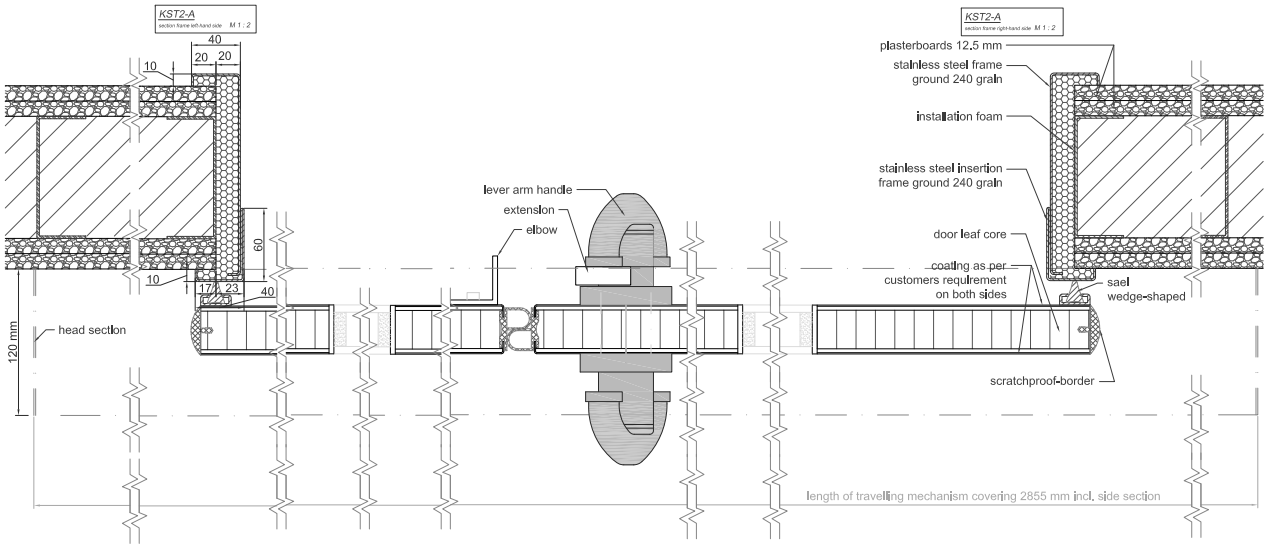
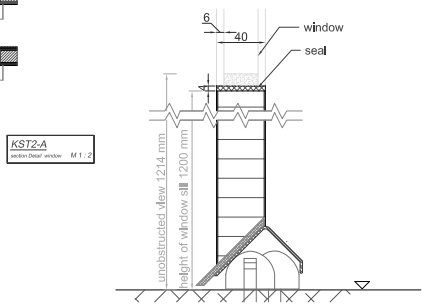


record CLEAN
automatic door systems for environments with special requirements









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PLAN

KST2-A

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KST2-A		DIN-L-R	

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

Special option models

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

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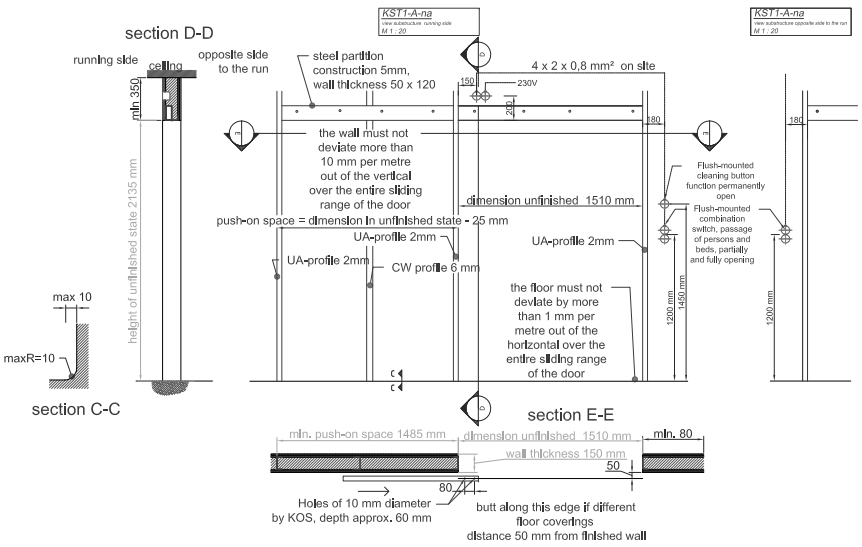

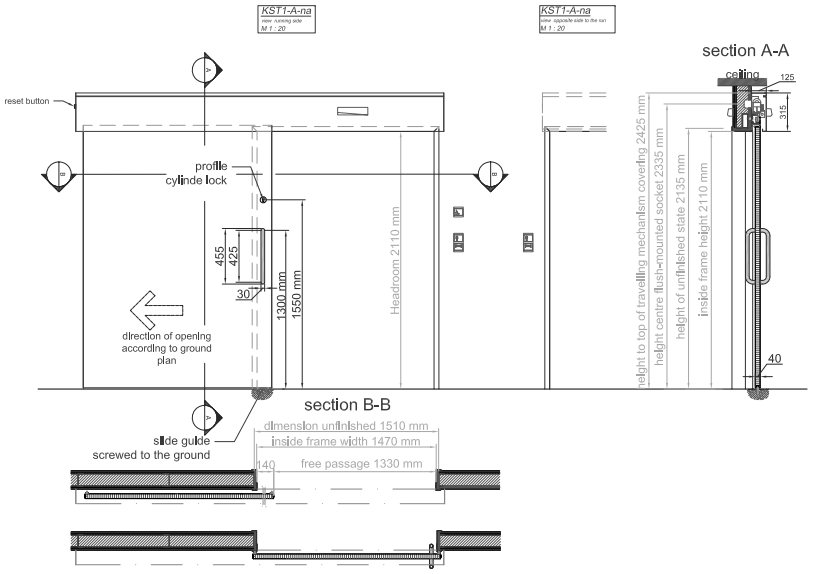

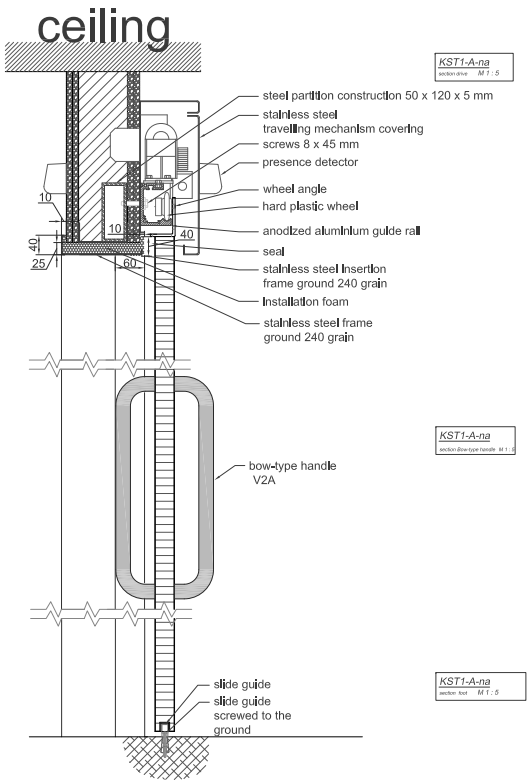

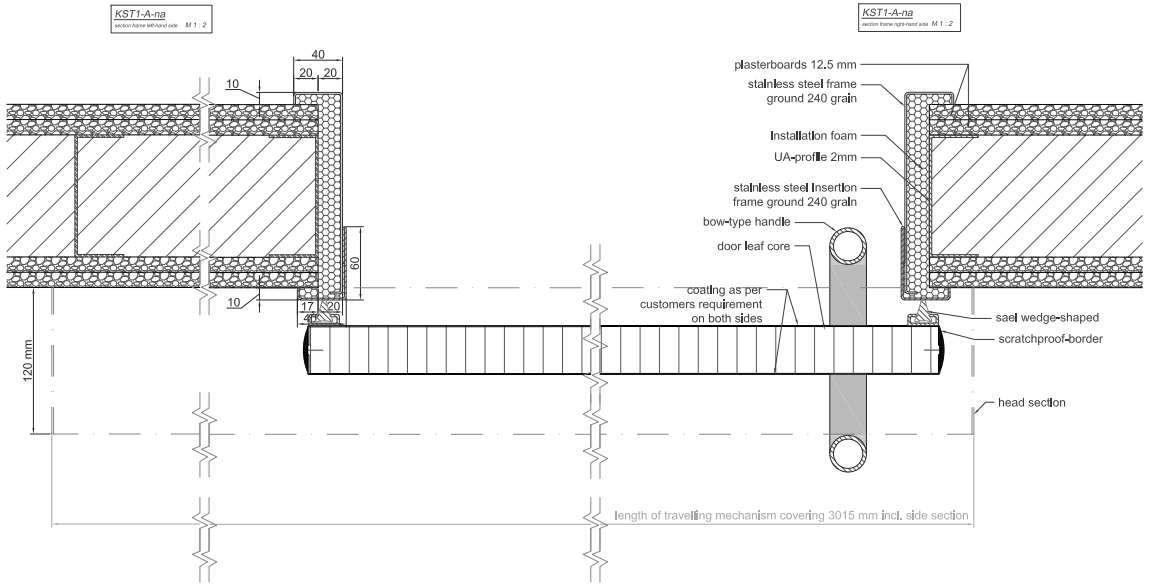

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KST1-A-na

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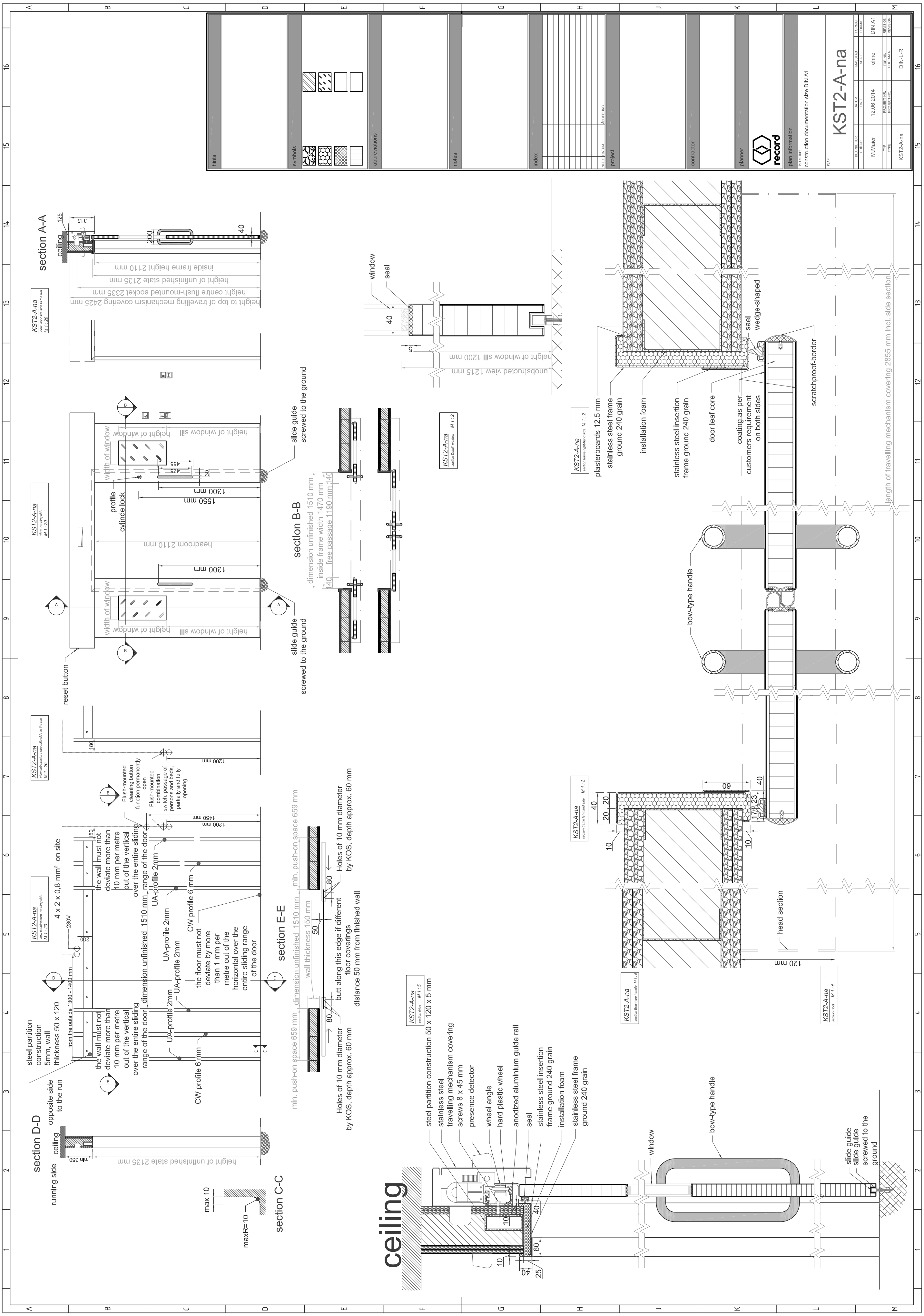
KST1-A-na		DIN-R	


section A-A
section B-B
section C-C
section D-D
section E-E
ceiling
running side
opposite side to the run
steel partition construction 5mm, wall thickness 50 x 120
4 x 2 x 0,8 mm² on site
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
UA-profile 2mm
CW profile 6 mm
dimension unfinished 1510 mm
reset button
profile cylinder lock
headroom 2110 mm
height of window sill
width of window
slide guide screwed to the ground
inside frame width 1470 mm
free passage 1190 mm
min. push-on space 659 mm
wall thickness 150 mm
Holes of 10 mm diameter by KOS, depth approx. 60 mm
butt along this edge if different floor coverings distance 50 mm from finished wall
height to top of travelling mechanism covering 2425 mm
height centre flush-mounted socket 2335 mm
height of unfinished state 2135 mm
inside frame height 2110 mm
window
seal
unobstructed view 1215 mm
height of window sill 1200 mm
plasterboards 12.5 mm
stainless steel frame ground 240 grain
installation foam
stainless steel insertion frame ground 240 grain
door leaf core
coating as per customers requirement on both sides
sael wedge-shaped
scratchproof-border
length of travelling mechanism covering 2855 mm incl. side section
bow-type handle
head section
steel partition construction 50 x 120 x 5 mm
stainless steel travelling mechanism covering
screws 8 x 45 mm
presence detector
wheel angle
hard plastic wheel
anodized aluminium guide rail
seal
stainless steel insertion frame ground 240 grain
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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 requesth

Door leaf

Strength of leaf core	40 mm
Surface weight Pb 1	approx. 27.3 kg / m²
Surface weight Pb 2	approx. 38.6 kg / m²
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)

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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	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	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 900 mm
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	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 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. For floor coverings with fillets towards the wall, the radius of the fillet must not exceed 10 mm in the entire operation area of the door, for otherwise the door may be obstructed.

Special option models

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

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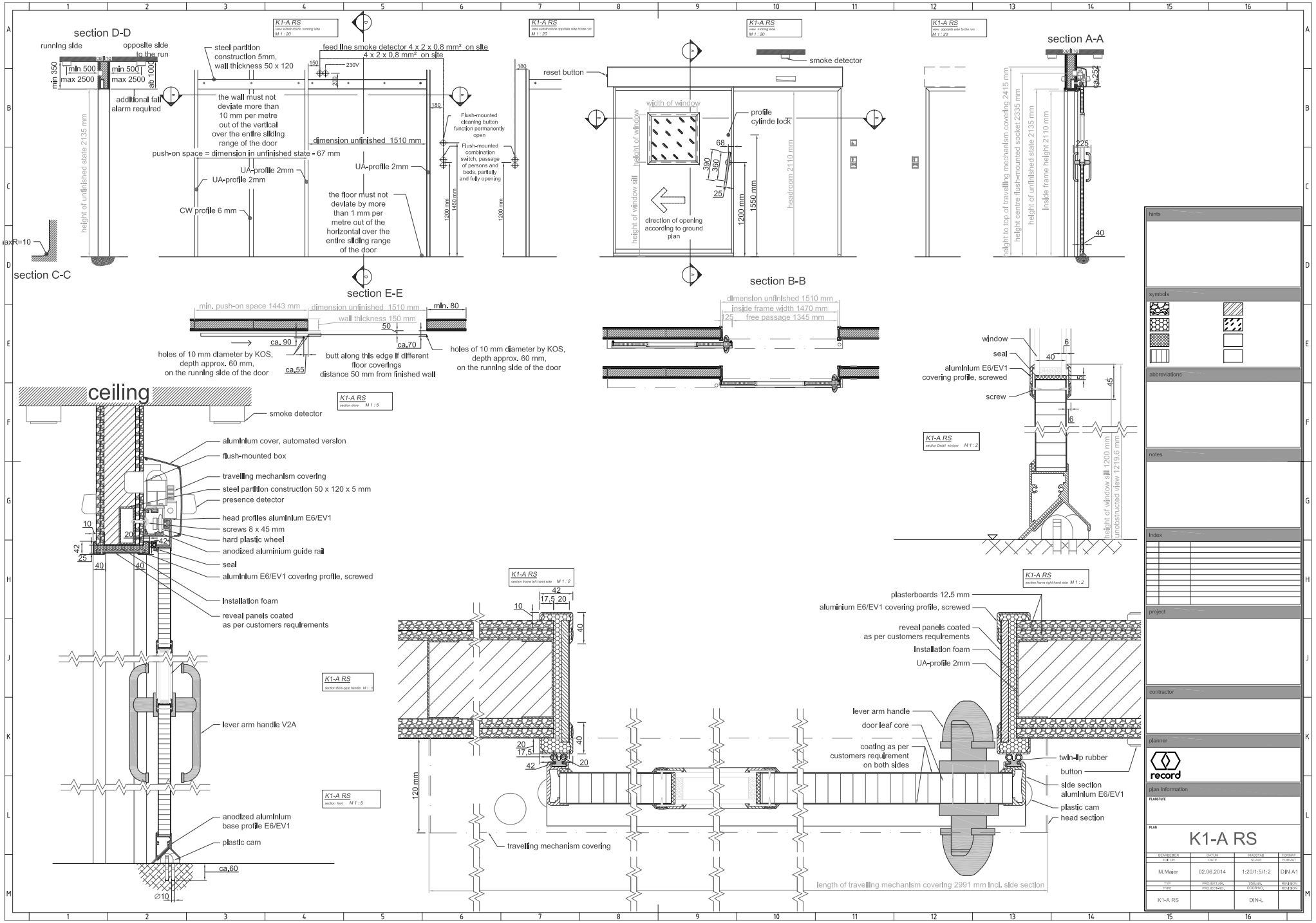
section D-D
running side
opposite side to the run
min 350
min 500
max 2500
ceiling
ab 1000
additional fall alarm required
steel partition construction 5mm, wall thickness 50 x 120
feed line smoke detector 4 x 2 x 0,8 mm² on site
4 x 2 x 0,8 mm² on site
150
230V
200
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
push-on space = dimension in unfinished state - 67 mm
dimension unfinished 1510 mm
180
Flush-mounted cleaning button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
reset button
UA-profile 2mm
CW profile 6 mm
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
1200 mm
1450 mm
height of unfinished state 2135 mm
maxR=10
section C-C
K1-A RS
view outside/view opposite side to the run
M 1 : 20
smoke detector
width of window
height of window
height of window sill
profile cylinde lock
68
390
360
26
1200 mm
1550 mm
headroom 2110 mm
direction of opening according to ground plan
section A-A
ceiling
ca.252
225
40
height to top of travelling mechanism covering 2415 mm
height centre flush-mounted socket 2335 mm
height of unfinished state 2135 mm
inside frame height 2110 mm
section E-E
min. push-on space 1443 mm
dimension unfinished 1510 mm
min. 80
wall thickness 150 mm
50
ca. 90
ca.70
ca.55
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
butt along this edge if different floor coverings distance 50 mm from finished wall
section B-B
dimension unfinished 1510 mm
inside frame width 1470 mm
125
free passage 1345 mm
window
seal
aluminium E6/EV1 covering profile, screwed
screw
40
6
45
height of window sill 1200 mm unobstructed view 1219.6 mm
K1-A RS
section Detail window M 1 : 2
ceiling
smoke detector
K1-A RS
section drive M 1 : 5
aluminium cover, automated version
flush-mounted box
travelling mechanism covering
steel partition construction 50 x 120 x 5 mm
presence detector
head profiles aluminium E6/EV1
screws 8 x 45 mm
hard plastic wheel
anodized aluminium guide rail
seal
aluminium E6/EV1 covering profile, screwed
Installation foam
reveal panels coated as per customers requirements
10
20
42
25
40
lever arm handle V2A
K1-A RS
section Bow-type handle M 1 : 5
anodized aluminium base profile E6/EV1
plastic cam
ca.60
Ø10
K1-A RS
section foot M 1 : 5
K1-A RS
section frame left-hand side M 1 : 2
17,5
120 mm
travelling mechanism covering
K1-A RS
section frame right-hand side M 1 : 2
plasterboards 12.5 mm
aluminium E6/EV1 covering profile, screwed
reveal panels coated as per customers requirements
Installation foam
UA-profile 2mm
lever arm handle
door leaf core
coating as per customers requirement on both sides
twin-lip rubber
button
side section aluminium E6/EV1
plastic cam
head section
length of travelling mechanism covering 2991 mm incl. side section
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PROJECT-NR. / PROJECT-NO.:
ZEICHNER / DRAWER:
DIN-L
REVISION / REVISION:

For your remarks

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 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.

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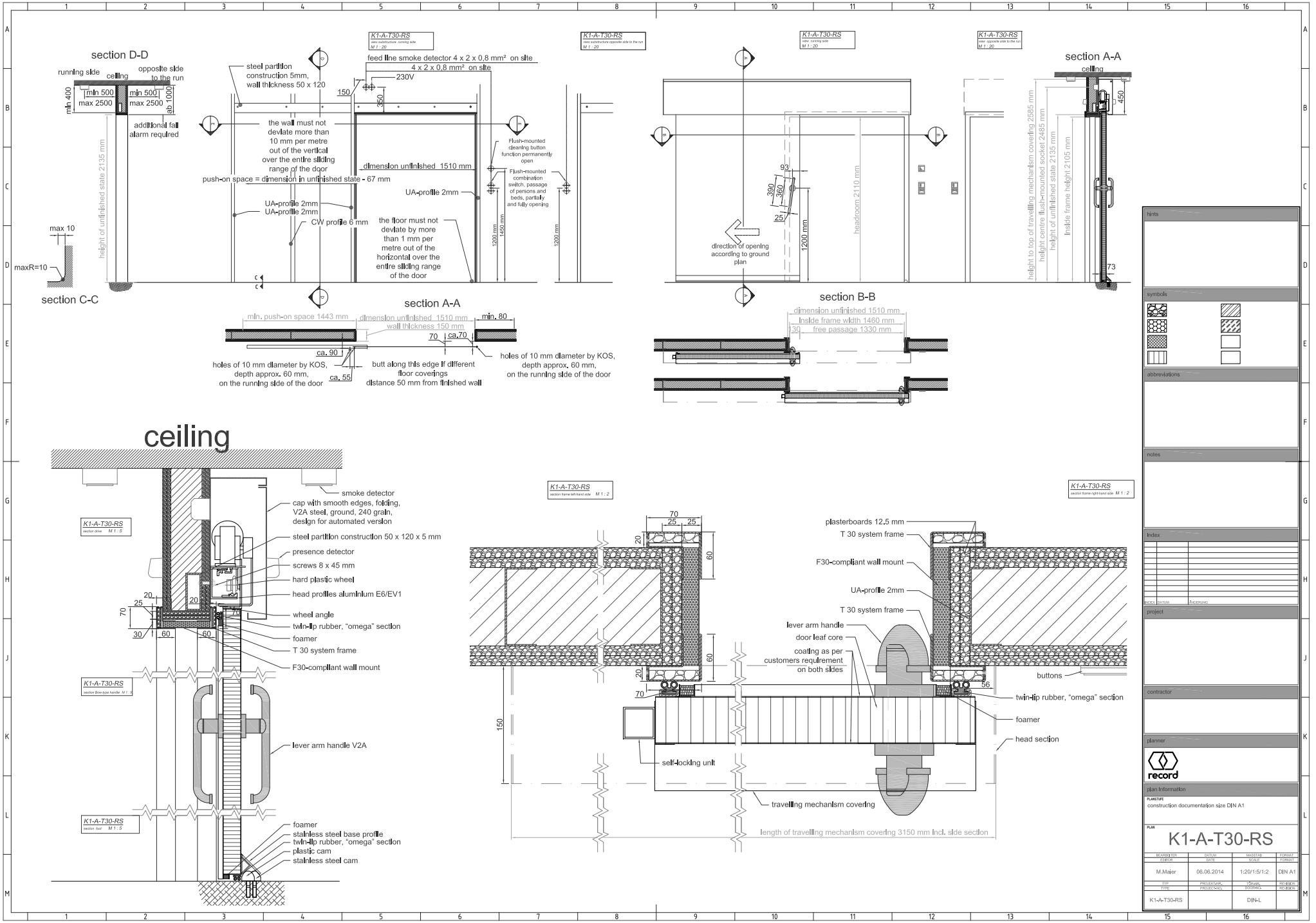
section D-D
running side
ceiling
opposite side to the run
min 400
min 500
max 2500
min 500
max 2500
ab 1000
additional fall alarm required
height of unfinished state 2135 mm
steel partition construction 5mm, wall thickness 50 x 120
feed line smoke detector 4 x 2 x 0,8 mm² on site
4 x 2 x 0,8 mm² on site
230V
150
350
the wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
dimension unfinished 1510 mm
push-on space = dimension in unfinished state - 67 mm
UA-profile 2mm
UA-profile 2mm
UA-profile 2mm
CW profile 6 mm
the floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
Flush-mounted cleaning button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
1200 mm
1459 mm
1200 mm
max 10
maxR=10
section C-C
section A-A
min. push-on space 1443 mm
dimension unfinished 1510 mm
wall thickness 150 mm
min. 80
70
ca.70
ca. 90
ca. 55
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
butt along this edge if different floor coverings distance 50 mm from finished wall
holes of 10 mm diameter by KOS, depth approx. 60 mm, on the running side of the door
section A-A
ceiling
450
height to top of travelling mechanism covering 2585 mm
height centre flush-mounted socket 2485 mm
height of unfinished state 2135 mm
inside frame height 2105 mm
73
93
390
380
25
1200 mm
headroom 2110 mm
direction of opening according to ground plan
section B-B
dimension unfinished 1510 mm
inside frame width 1460 mm
30
free passage 1330 mm
ceiling
smoke detector
cap with smooth edges, folding, V2A steel, ground, 240 grain, design for automated version
steel partition construction 50 x 120 x 5 mm
presence detector
screws 8 x 45 mm
hard plastic wheel
head profiles aluminium E6/EV1
wheel angle
twin-lip rubber, "omega" section
foamer
T 30 system frame
F30-compliant wall mount
lever arm handle V2A
foamer
stainless steel base profile
twin-lip rubber, "omega" section
plastic cam
stainless steel cam
plasterboards 12.5 mm
T 30 system frame
F30-compliant wall mount
UA-profile 2mm
T 30 system frame
lever arm handle
door leaf core
coating as per customers requirement on both sides
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twin-lip rubber, "omega" section
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M.Maier
06.06.2014
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DIN-L

For your remarks

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 then ±10 mm from perpendicular.
Floor	The flooring must be in its definitive state before starting the mounting of the doors.

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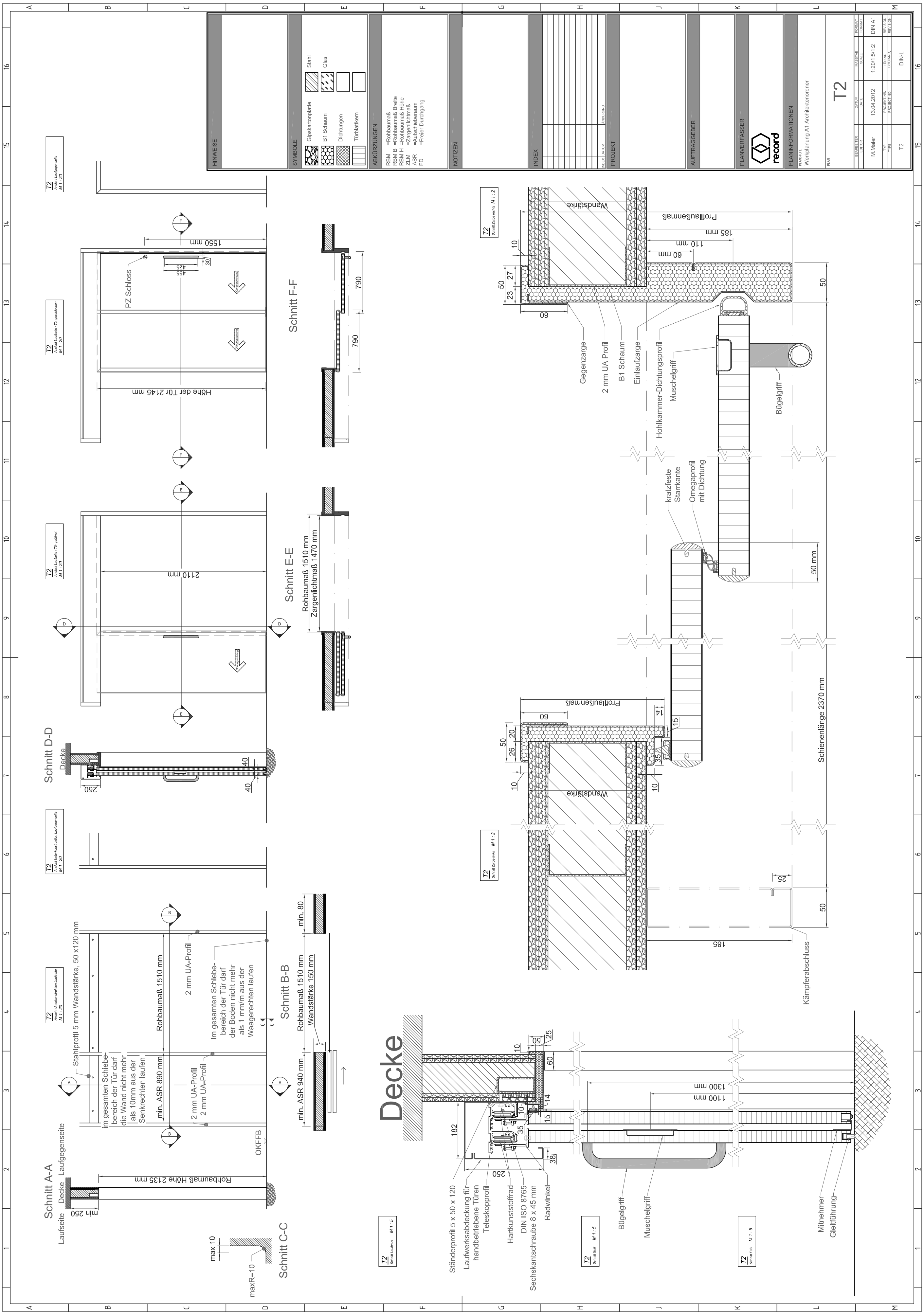
Schnitt A-A
Laufseite
Decke
Laufgegenseite
Rohbaumaß Höhe 2135 mm
Schnitt B-B
Rohbaumaß 1510 mm
Wandstärke 150 mm
Schnitt C-C
Schnitt D-D
Schnitt E-E
Rohbaumaß 1510 mm
Zargenlichtmaß 1470 mm
Schnitt F-F
Stahlprofil 5 mm Wandstärke, 50 x120 mm
2 mm UA-Profil
PZ Schloss
Höhe der Tür 2145 mm
1550 mm
2110 mm
Decke
Ständerprofil 5 x 50 x 120
Laufwerksabdeckung für handbetriebene Türen
Teleskopprofil
Hartkunststoffrad
Sechskantschraube 8 x 45 mm DIN ISO 8765
Radwinkel
Bügelgriff
Muschelgriff
Mitnehmer
Gleitführung
Kämpferabschluss
Schienenlänge 2370 mm
Wandstärke
Profilaußenmaß
Gegenzarge
2 mm UA Profil
B1 Schaum
Einlaufzarge
Hohlkammer-Dichtungsprofil
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M.Maier
13.04.2012
DIN A1

For your remarks

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.

Alternativ 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	10 mm 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

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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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For your remarks

record CLEAN K3-A

Automatic sliding doors with inlet frame

Brief description

Door leaf

Strength	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 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 then ±10 mm from perpendicular
Floor	The flooring must be in its definitive state before starting the mounting of the door

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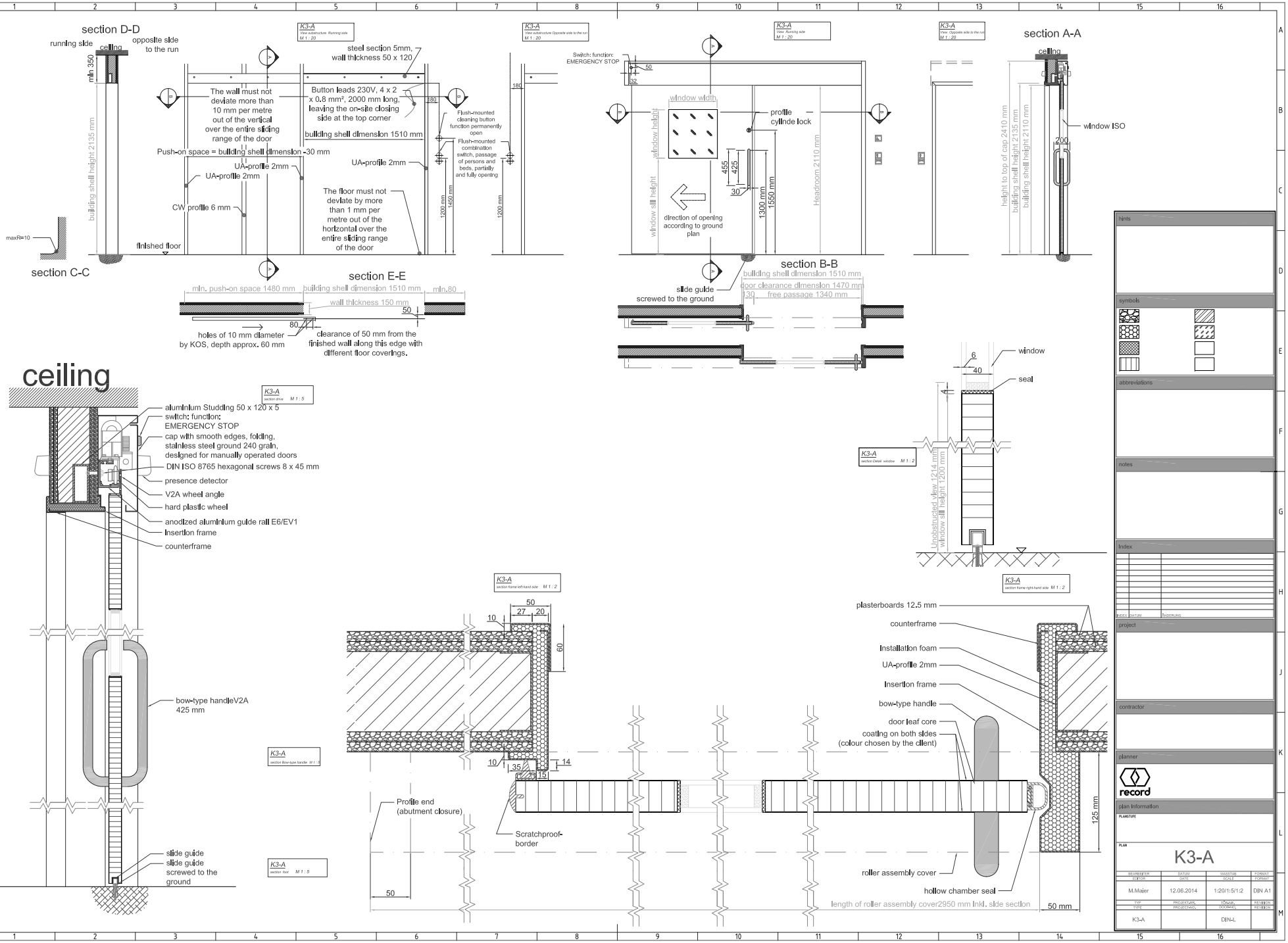
section D-D
running side
ceiling
opposite side to the run
min 350
building shell height 2135 mm
steel section 5mm, wall thickness 50 x 120
The wall must not deviate more than 10 mm per metre out of the vertical over the entire sliding range of the door
Button leads 230V, 4 x 2 x 0.8 mm², 2000 mm long, leaving the on-site closing side at the top corner
building shell dimension 1510 mm
Push-on space = building shell dimension -30 mm
UA-profile 2mm
UA-profile 2mm
UA-profile 2mm
CW profile 6 mm
The floor must not deviate by more than 1 mm per metre out of the horizontal over the entire sliding range of the door
Flush-mounted cleaning button function permanently open
Flush-mounted combination switch, passage of persons and beds, partially and fully opening
1200 mm
1450 mm
180
finished floor
maxR=10
section C-C
section E-E
min. push-on space 1480 mm
building shell dimension 1510 mm
min.80
wall thickness 150 mm
50
80
holes of 10 mm diameter by KOS, depth approx. 60 mm
clearance of 50 mm from the finished wall along this edge with different floor coverings.
Switch: function: EMERGENCY STOP
window width
window height
window sill height
profile cylinde lock
direction of opening according to ground plan
455
425
30
1300 mm
1550 mm
Headroom 2110 mm
slide guide screwed to the ground
section B-B
building shell dimension 1510 mm
door clearance dimension 1470 mm
130
free passage 1340 mm
section A-A
ceiling
window ISO
200
height to top of cap 2410 mm
building shell height 2135 mm
building shell height 2110 mm
ceiling
aluminium Studding 50 x 120 x 5
switch: function: EMERGENCY STOP
cap with smooth edges, folding, stainless steel ground 240 grain, designed for manually operated doors
DIN ISO 8765 hexagonal screws 8 x 45 mm
presence detector
V2A wheel angle
hard plastic wheel
anodized aluminium guide rail E6/EV1
Insertion frame
counterframe
bow-type handleV2A 425 mm
slide guide
slide guide screwed to the ground
window
seal
6
40
Unobstructed view 1214 mm
window sill height 1200 mm
50
27
20
10
60
10
35
15
14
Profile end (abutment closure)
Scratchproof-border
50
plasterboards 12.5 mm
counterframe
Installation foam
UA-profile 2mm
Insertion frame
bow-type handle
door leaf core
coating on both sides (colour chosen by the client)
125 mm
roller assembly cover
hollow chamber seal
length of roller assembly cover2950 mm Inkl. side section
50 mm
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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 / m²
Surface weight Pb 2	approx. 38.6 kg / m²
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
Rabbet	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 20 mm 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

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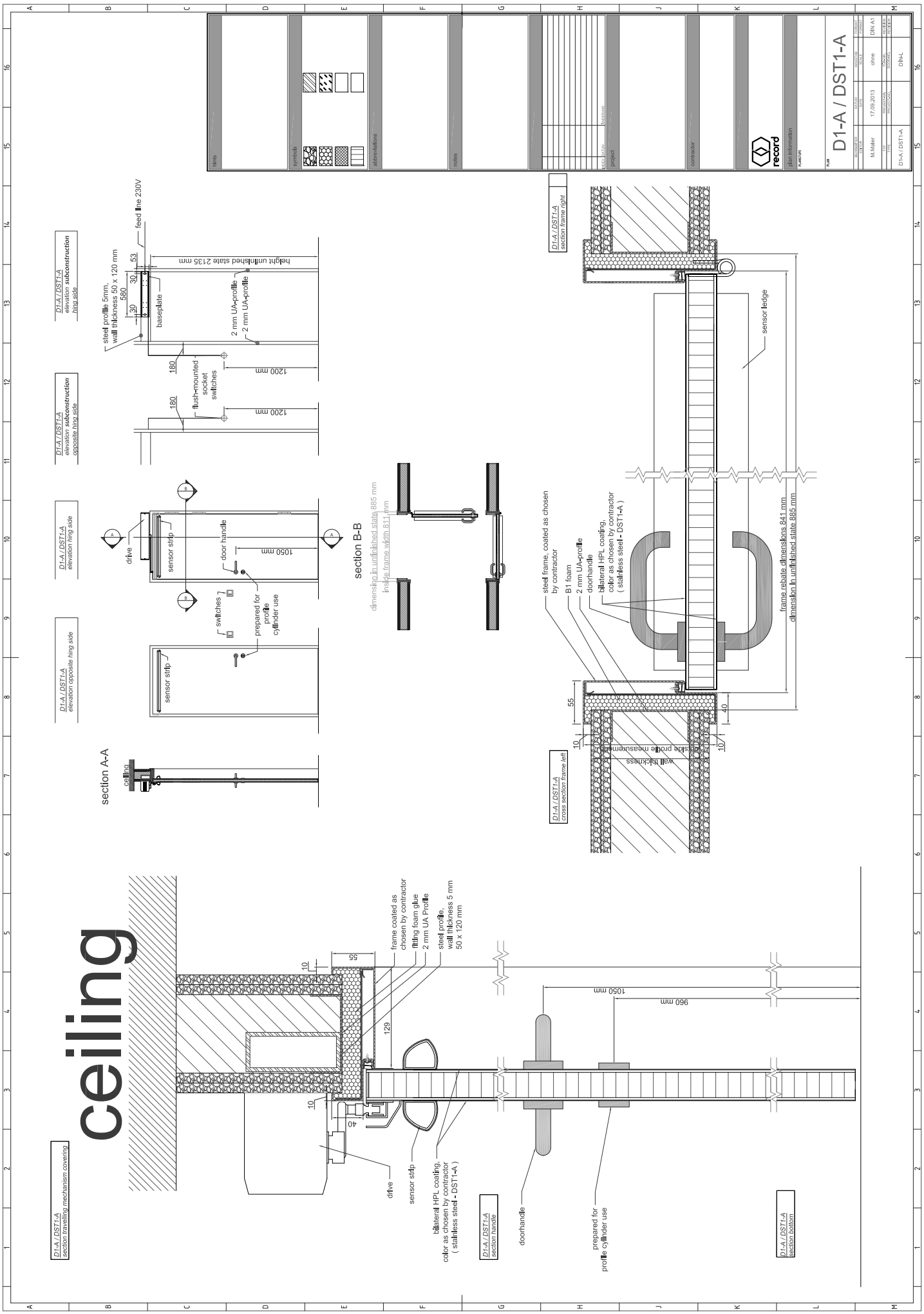
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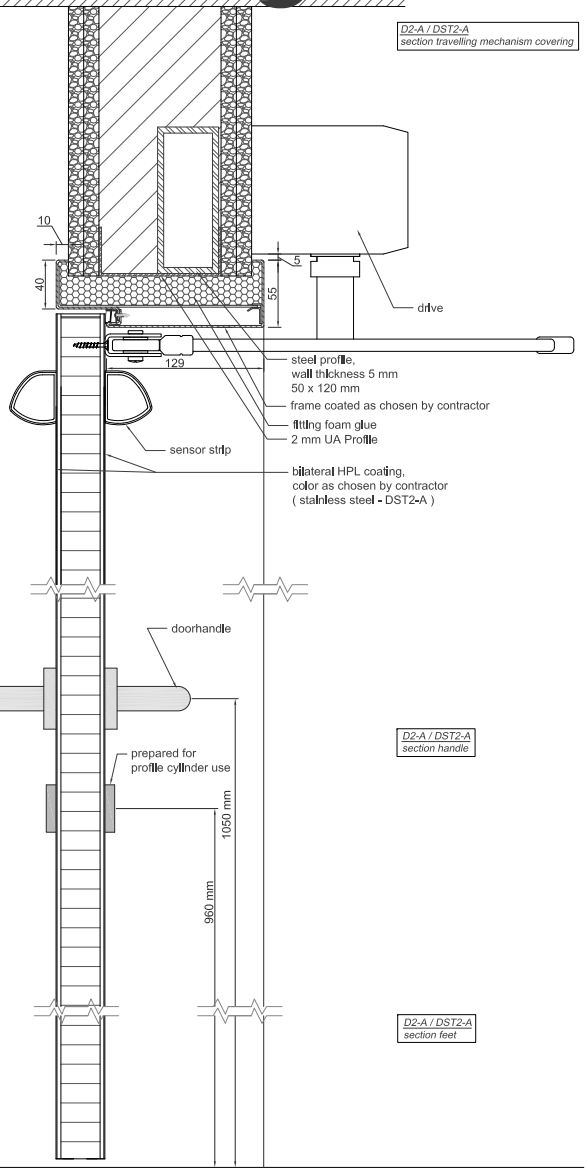
D1-A / DST1-A elevation subconstruction opposite hing side
D1-A / DST1-A elevation hing side
D1-A / DST1-A elevation opposite hing side
steel profile 5mm, wall thickness 50 x 120 mm
feed line 230V
height unfinished state 2135 mm
baseplate
2 mm UA-profile
2 mm UA-profile
flush-mounted socket switches
1200 mm
1200 mm
drive
sensor strip
door handle
1050 mm
switches
prepared for profile cylinder use
sensor strip
section A-A
ceiling
section B-B
dimension in unfinished state 885 mm
inside frame width 811 mm
D1-A / DST1-A section frame right
sensor ledge
steel frame, coated as chosen by contractor
B1 foam
2 mm UA-profile
doorhandle
bilateral HPL coating, color as chosen by contractor (stainless steel - DST1-A)
frame rebate dimensions 841 mm
dimension in unfinished state 885 mm
D1-A / DST1-A cross section frame left
wall thickness
outside profile measurement
55
40
10
10
ceiling
D1-A / DST1-A section travelling mechanism covering
frame coated as chosen by contractor
fitting foam glue
2 mm UA Profile
steel profile, wall thickness 5 mm 50 x 120 mm
55
10
129
10
40
960 mm
1050 mm
drive
sensor strip
bilateral HPL coating, color as chosen by contractor (stainless steel - DST1-A)
D1-A / DST1-A section handle
doorhandle
prepared for profile cylinder use
D1-A / DST1-A section bottom

ceiling

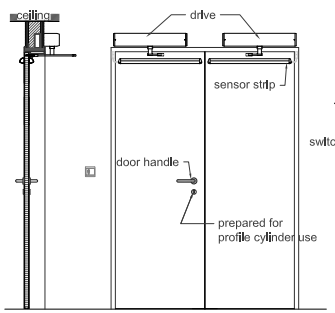
D2-A / DST2-A
section travelling mechanism covering



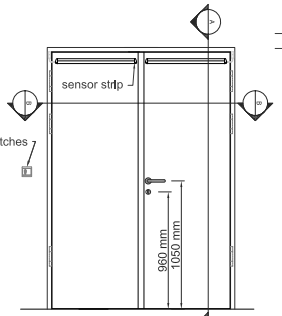
D2-A / DST2-A
section handle

D2-A / DST2-A
section feet

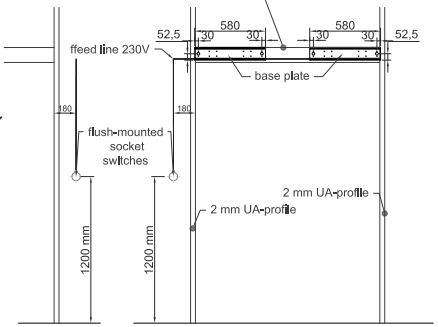
D2-A / DST2-A
elevation opposite hing side



D2-A / DST2-A
elevation hing side

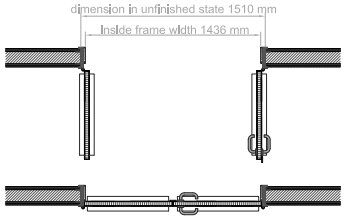


D2-A / DST2-A
elevation **subconstruction**
opposite hing side



D2-A / DST2-A
elevation **subconstruction**
hing side

section B-B



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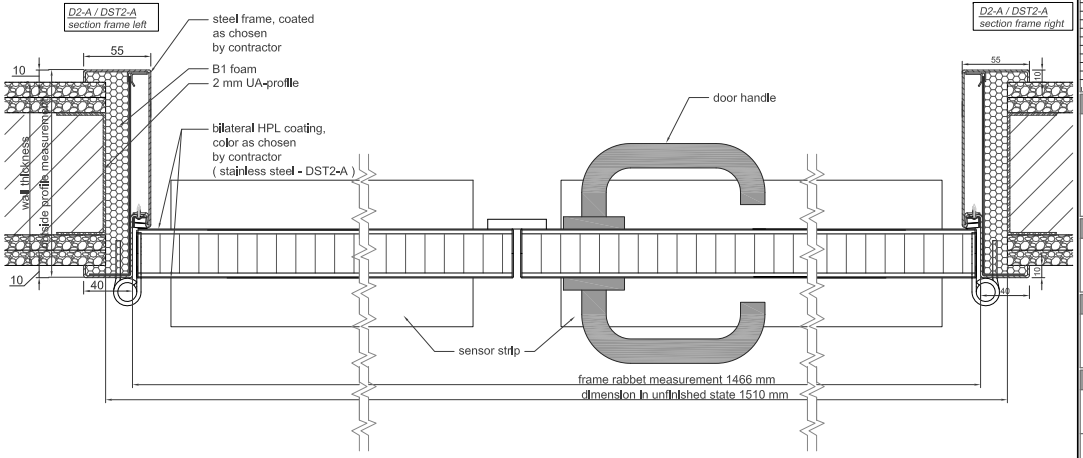
section frame left

D2-A / DST2-A
section frame right



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D2-A / DST2-A

BEARBEITER / EDITOR	DATUM / DATE	MASSTAB / SCALE	FORMAT
M.Maier	13.04.2012	ohne	DIN A1
TYP / TYPE	PROJEKTNR. / PROJECT-NO.	ZEICHNUNGS-NR. / DRAWING-NO.	REVISION / REVISION
D2-A / DST2-A		DIN L-R	

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	40V DC, 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	230 VAC 50 / 60 Hz, rated power 67 W, Standby 13 W
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	T2 A
Voltage	24 VDC, 1.0 A
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 18 650
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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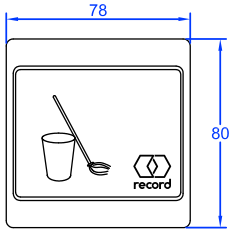
Schalter:
Symbolik: "Putz"
Funktion: Dauer-Auf



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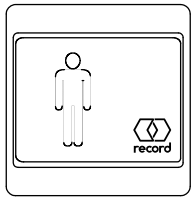
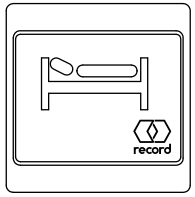
Symbolik:"Person"
Funktion: Teilöffnung



Taster:
Symbolik:"Bett"
Funktion: Vollöffnung



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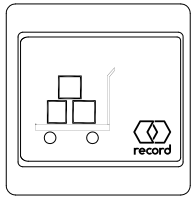
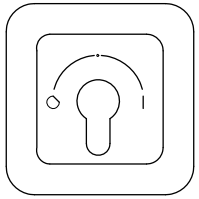
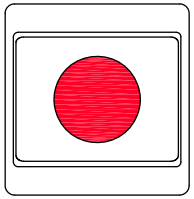
Funktion: Vollöffnung



Schlüsselschalter:
Symbolik: ohne
Funktion: Automat blockiert
Tastfunktion



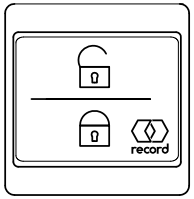
Rote Lampe
Funktion: Signalleuchte



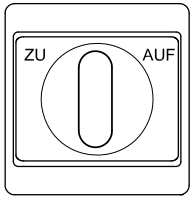
Taster:
Symbolik: "TÜR ZU"
Funktion: Verriegelung

Taster:
Symbolik: "TÜR AUF"
Funktion: Entriegelung

Taster:
Symbolik: "Schloss"
Funktion: Verriegelung
und Entriegelung



Schalter:
Symbolik: "AUF und ZU"
Funktion: Jalousie

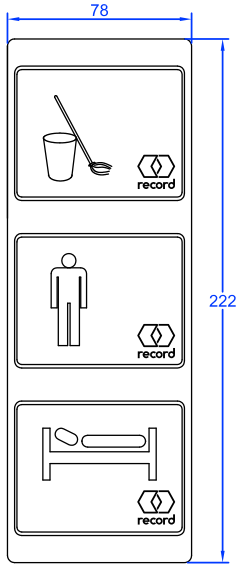


Kombination 3er
Schaltleiste

Schalter:
Symbolik: "Putz"
Funktion: Dauer-Auf

Taster:
Symbolik:"Person"
Funktion: Teilöffnung

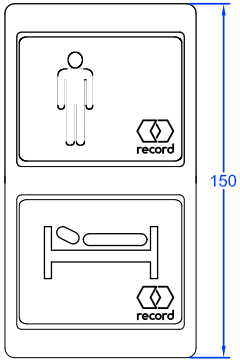
Taster:
Symbolik:"Bett"
Funktion: Vollöffnung



Kombination 2er
Schaltleiste

Taster:
Symbolik:"Person"
Funktion: Teilöffnung

Taster:
Symbolik:"Bett"
Funktion: Vollöffnung



(Benennung) Schalter und Taster				record	Maßstab 1:2		Modell
						Datum	Name
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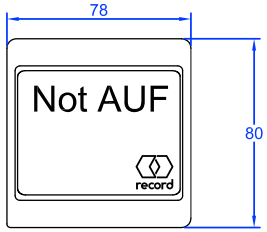
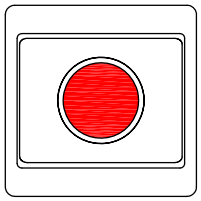
					Gepr.	28.02.2012	Ch.Dlttrich
					(Zeichnungsnummer)		Blatt 1 von 1
Zust	Änderung	Datum	Name	(Urspr.) DIN A 3	(Erst. f.)		(Erst. d.)

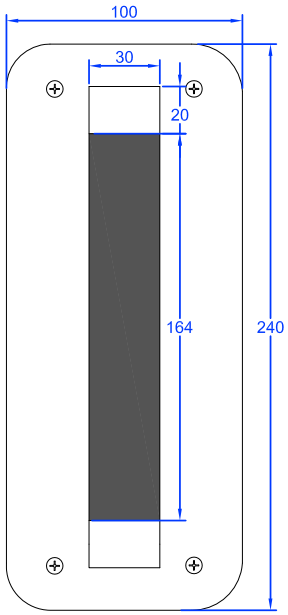
Taster:
Symbolik: "Not AUF"
Funktion: Tür auf



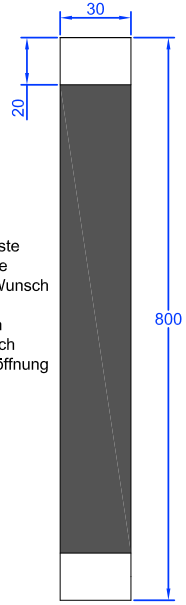
Schalter:
Funktion: Not AUS "Pilz"



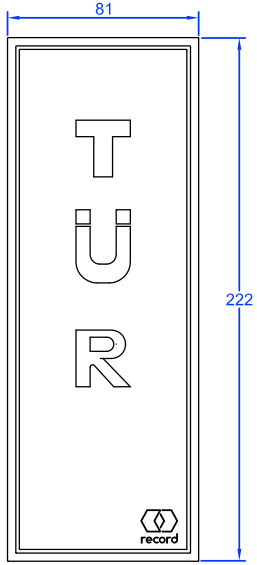
Fußtaster mit
Edelstahlgrundplatte
Symbolik: ohne
Funktion: nach
Kunden Wunsch
Standart: Vollöffnung



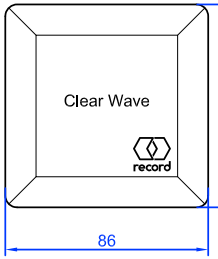
Elek.Schlagleiste
Symbolik: ohne
Länge: nach Wunsch
z.B. 800 mm
Funktion: nach
Kunden Wunsch
Standart: Vollöffnung

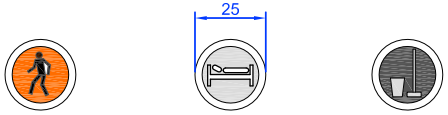


Ellbogentaster
Symbolik: "TÜR"
Funktion: nach
Kunden Wunsch
Standart Vollöffnung



Berührungsloser
Schalter mit Schalt-
und Tastfunktion



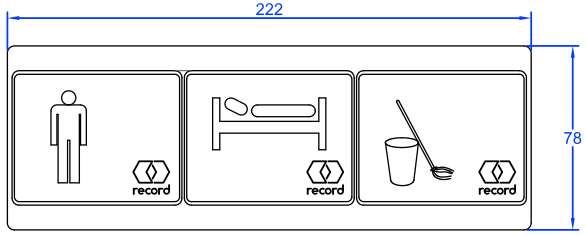


Personendurchgang
Funktion Teilöffnung

Bettentaster
Funktion Vollöffnung

Putztaster
Funktion Dauer-Auf

Taster



Kombination 3er Schaltleiste

Taster:
Symbolik:"Person"
Funktion: Teilöffnung

Taster:
Symbolik:"Bett"
Funktion: Vollöffnung

Schalter:
Symbolik: "Putz"
Funktion: Dauer-Auf

(Benennung)
Schalter und Taster

record

Maßstab 1:2			Modell
	Datum		Name
Bearb	28.02.2012		M.Maier
Gepr.	28.02.2012		Ch.Dittrich
(Zeichnungsnummer)			Blatt 1 von 1
Zust	Änderung	Datum	Name
(Urspr.) DIN A 3		(Erst. f.)	(Erst. d.)

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 0.8 g / 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 1.5 g / 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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12 / 2016 – subject to technical modifications