**DORMAKABA SPECIFICATION SERVICES**

**Dormakaba** | DORMA UK Limited|

Wilbury Way | Hitchin | Herts | SG4 0AB
T: +44 (0)1462 477 600

[www.dormakaba.co.uk](https://emea01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.dormakaba.co.uk&data=02%7C01%7Cnick.hopkins%40dormakaba.com%7C660a39a860164a2000be08d575586a2c%7Cb0f69499bd40437dbef2d41cf6f6a50e%7C0%7C0%7C636543945013158806&sdata=gPJ3X%2Bicey1aKbz2c3XQGfngwN9cU05v%2FFU6uB6r%2BK8%3D&reserved=0)

**Project**

L20/ REVOLVING DOORS

**Manufacturers** **Dormakaba** | DORMA UK Limited|

**KTV 4 FLEX DRIVE**

**KTV 4**

Top mounted drive system KTV FLEX Direct

**Product:** dormakaba KTV 4

Type: revolving door KTV 4 with direct drive

Functions: optionally selectable

Manufacturer: dormakaba

**PRODUCT DESCRIPTION / FUNCTIONS**

Revolving door system with KT FLEX Direct drive

gearless, brushless and low-wear

direct drive.

Electromagnetic operating principle. No drive belts.

No gear wheels. Powerful, low noise, flat design,

high positioning accuracy.

Drive for canopy installation with a minimum required

canopy height of only 100 mm in the basic version.

Selectable operating modes and functionalities of

speed limiter, positioning automatic, Servomatic or

full-automatic.

Operating mode can also be changed after installation

by changing the function module. No exchange of drive

components required.

Color-coded connection plugs on the control unit

and cables for fast and error-free installation.

Uncomplicated parameterization and programming

directly at the control board or via handheld.

Programmable dry contact as standard feature for

status or error messages notification e.g. to

building management systems.

**TECHNICAL FEATURES**

Door diameter (mm): 2000 to 3800

Passage height (mm): 2100 to 4000

Canopy height (mm): 100 to 1000

Door height (mm): 2200 to 5000

Power consumption (W): depending on drive type 8 - 102

Supply voltage: 100 - 240 V AC +/-10%, 50/60 Hz

Power supply for external components:

24 V DC +/-10 %, 3.0 A

Operating noise (drive): < 50 dB(A)

Temperature range (drive): -40 to +60 °C

**APPROVALS / CERTIFICATES**

Type approval according to DIN 18650 and EN 16005

(durability of 2 million cycles proven)

Technical rules for workplaces ASR A 1.7

Machinery Directive, Low Voltage Directive

EN ISO 13849-1

Manufacturing according to DIN ISO 9001

**DOOR TYPE**

**DOOR CONSTRUCTION**

Curved drum walls made of aluminum profiles.

Entrance profile face width 70 x 46 mm.

Base profiles top and bottom with face width 100 mm.

Side panels prepared for on-site facade connection

24 mm thick.

(a) with 8.76 mm clear laminated

safety glass filling '..........'

(b) with 18 mm panel filling 2 x 2 mm aluminum sheet

metal with insulating Styrofoam core '..........'

**SIZE**

Inside diameter ID (mm) '..........'

Outside diameter OD (mm) '..........'

Clear passage height PH (mm) '..........'

Canopy height CH (mm) '..........'

Total height CH + PH (mm) '..........'

for clear installation width ca. (mm) '..........'

for clear installation height ca. (mm) '..........'

**Turnstile**

(a) Framed turnstile with 4 wings '..........'

made of slim aluminium frame profiles on all sides,

face width 80x60 mm, horizontal and vertical double

brush seals for an optimized sealing of the wings.

Glass filling TSG (6, 8 or 10 mm) '..........' mm

Glass filling LSG (8 or 10 mm) '..........' mm

(b) Fine framed wings '..........'

made of aluminium fine frame profiles on three sides

(no profiles in the center axis), face width 40x30 mm,

top and bottom wing profile, face width 80 mm, with

horizontal and vertical brush seals.

Glass filling TSG 12 mm (max. inner diameter 3000 mm)

**WINGS ADJUSTMENT**

Version with rigid turnstile '..........'

Version with rigid turnstile but 1 wing foldable

for transport and ventilation purposes '..........'

Version with rigid turnstile but 2 wings foldable

for transport and ventilation purposes '..........'

Version with 4 collapsible wings (Bookfold)

'..........'

According to AutSchR:1997 suitable for use in escape

routes when in escape position (in unlocked operating

mode).

**CEILING CONSTRUCTION**

Basic construction from extruded aluminum profile

with circumferential aluminium sheet metal cladding

in the color of the door system

(a) Outside upper ceiling

with dust cover made of chipboard with white melamine

surface'..........'

with decorative sheet metal covering the color of the

door system '..........'

with rainproof sheet metal cover in the color of the

door system '..........'

Edge profile with circumferential backsplash and 2

waterspouts (ID max. 3,200 mm) '..........'

(b) Inside upper ceiling

with dust cover made of chipboard with white melamine

surface'.........'

with decorative sheet metal cover in the color of the

door system '..........'

(c) lower ceiling with aluminium frame construction

segmented into 8 ceiling panels, revisable, made of 8

mm chipboard with white melamine surface '..........'

with inserted 2 mm aluminium sheet metal segments,

surface in door color '..........'

**FLOOR RING**

(a) without floor ring. Installation of the door on

finished floor '..........'

(b) floor ring with adjustable substructure

for assembly without welding.

Dimensions raw to finished floor from 80 - 250 mm

Stainless steel angle profile 40 x 40 x 4 mm, 360

Necessary sealing work to the building structure

by others.

Screed work from raw floor to finished floor by others.

Panels included as casting aid for optimized casting

of the floor ring in the screed.

Type 0, without clamping flange '..........'

Type 1, with axial clamping flange for installation of

a sealing foil by others’..........'

Type 1 (DIN), with axial clamping flange according to

DIN 18195-5 for installation of a sealing foil by

others '..........'

Type 2, with 180° circumferential external clamping

flange for installation of a sealing foil by

others '..........'

Type 2 (DIN), with 180° circumferential external

clamping flange according to DIN 18195-5 for

installation of a sealing foil by others’..........'

Additional stainless steel sheet metal shroud at the

clamping flange '..........'

Additional stainless steel sheet metal floor pan with

drain hole'..........'

**FACADE CONNECTION**

by others’..........'

Sheet metal panels with robust Styrofoam core, in

central axis, circumferential on 3 sides, 24 mm thick,

max. 300 mm wide, fixed at the mullion and transom

construction of the facade for load transmission

'..........'

special version according to separate description

'..........'

**COLOUR**

RAL color'..........'

silver anodized E6 C0 '..........'

Stainless steel cladding, AISI 304, brushed finish 240

grit '..........'

Special color'..........'

**DOOR CONTROL OPTIONS**

**KTV P** (positioning automatic) '..........'

with 2 selectable operating modes via program switch

manual door operation, then automatic positioning in

home position

or

continuous rotation (slow), manual acceleration

to reach walking speed.

With speed limiter, adjustable in 2 parameters

(application speed and strength).

**KTV S** (Servomatic) '..........'

with 2 selectable operating modes via program switch.

Automatic start (slow), manual acceleration to reach

walking speed, then automatic positioning in home

position

or

continuous rotation (slow), manual acceleration

to reach walking speed.

With speed limiter, adjustable in 2 parameters

(application speed and strength).

**KTV A** (fully automatic revolving door) '..........'

with 2 selectable operating modes via program switch

automatic start (walking speed), then automatic

positioning in home position

or

continuous rotation (slow), automatic acceleration

to walking speed.

**SAFETY EQUIPMENT**

none (KTV M with/without speed limiter) '..........'

Safety equipment for KTV P '..........'

Safety equipment for KTV S '..........'

Safety equipment for KTV A '..........'

Safety according to DIN 18650/EN 16005

**MOVEMENT SENSORS**

Flatscan REV PZ laser Sensors to trigger rotation for KTV S and KTV A '..........'

**PROGRAM SWITCH**

Revolving door key switch Standard ‘..........'

Revolving door key switch „PZ with Europrofile-half-

cylinder '..........'

All Europrofile cylinders of the door keyed alike.

Program switch installed at door post '..........'

Program switch supplied separately for external

installation '..........'

**NIGHT SHIELD**

without night shield '..........'

External manual night shield '..........'

Aluminum profiles with glass filling LSG 8.76 mm.

Manual rod lock for top / bottom locking with

Europrofile half cylinder, keyed alike.

External manual night shield '..........'

Aluminum profiles with burglar-resistant glass filling

according to grade P4A and guide rail in floor ring.

Locking via manual multi-point hook lock, with

Europrofile half cylinder, keyed alike.

External manual night shield '..........'

Aluminum profiles with 2 x 2 mm aluminum sheet metal

panels with insulating Styrofoam core.

Manual rod lock for top / bottom locking with

Europrofile half cylinder, keyed alike.

Internal manual night shield '..........'

Aluminum profiles with glass filling LSG 8.76 mm.

Manual rod lock for top / bottom locking with

Europrofile half cylinder, keyed alike.

Internal manual night shield '..........'

Aluminum profiles with burglar-resistant glass filling

according to grade P4A and guide rail in floor ring.

Locking via manual multi-point hook lock, with

Europrofile half cylinder, keyed alike.

Internal manual night shield '..........'

Aluminum profiles with 2 x 2 mm aluminum sheet metal

panels with insulating Styrofoam core.

Manual rod lock for top / bottom locking with

Europrofile half cylinder, keyed alike.

Internal automatic night shield '..........'

Aluminum profiles with glass filling LSG 8.76 mm.

Automatic electromechanical locking.

Internal automatic night shield '..........'

Aluminum profiles with 2 x 2 mm aluminum sheet metal

panels with insulating Styrofoam core.

Automatic electromechanical locking.

**TURNSTILE LOCKING**

without locking system '..........'

manual locking '..........'

rod locking system(s) into lower ceiling, keyed alike

electro-mechanical bolt lock(s) '..........'

normally closed

manual floor lock '..........'

with Europrofile half cylinder, keyed alike

**FLOOR MAT**

Floor mat by others (max. thickness 30 mm) '..........'

Floor mat with carpet filling, EMCO Diplomat 522/3R,

Anthracite color '..........'

Floor mat with rubber filling, EMCO Diplomat 522/3G,

Black color '..........'

Special floor mat '..........'

**LIGHTING**

with LED light ring ‘..........'

dimmable, adjustable light color (warm/cold white),

for an even illumination at all times.

**AIR CURTAIN**

(a) Warm water air curtain, surface in the color of

the door system, prepared for PWW 70/50 °C warm water

connection by others.

Air curtain (warm water) placed on upper ceiling, curved

blower duct on inside canopy '..........'

Air curtain (warm water) as standalone unit with

vertical blower duct '..........'

(b) electric air curtain, surface in the color of

the door system, prepared for electrical connection

by others.

Air curtain (electric) placed on upper ceiling, curved

blower duct on inside canopy '..........'

Air curtain (electric) as standalone unit with

vertical blower duct '..........'

**MIDRAILS**

without midrails '..........'

with midrails '..........'

Glass separating type '..........'

Bonded type '..........'

Height 84 mm '..........'

Height 200 mm '..........'

Aluminum sheet metal, in the color of the door system

'..........'

Stainless steel sheet metal, AISI 304, brushed finish

240 grit '..........'

**ACESSORIES**

Uninterrupted power supply '..........'

Button with wheelchair symbol (inside and outside) for

temporary speed reduction '..........'

Night-bank function '..........'

Locking status dry contacts '..........'

Door status and locking notifications '..........'

4 handles for manual operation/acceleration

(a) vertical handles

OGRO TG 9356, Dia. 32 mm, short handle, height 350 mm

'..........'

OGRO TG 9355, Dia. 40 mm, vertical handlebar, full

wing height '..........'

(b) horizontal handles

OGRO TG 9355, Dia. 32 mm, horizontal handlebar, full

wing width '..........'

**INSTALLATION AND SERVICES**

Professional installation '..........'

Professional commissioning '..........'

Service contract '..........'

We would like to note that a detailed description of installation site conditions and the surrounding area for the door system will be required in order to complete the risk assessment stipulated under DIN 18650. This risk assessment will be used to determine the safety measures required in each case.

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