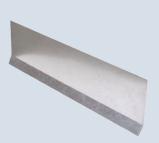


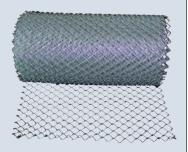
# 2. Shaft (table A.1)



\*Catalogue page 55



\*Catalogue page 20



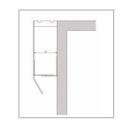
\*Catalogue page 24

# Landing door apron missing / EN 81-80 2.6

(acc. to EN 81-20 5.2.5.3.2)

Door width mm

Mounting kit for landing door apron



(to support the apron on the shaft wall)

# Universal counterweight cover required / EN 81-80 2.8

(acc. to EN 81-20 5.2.5.5.1)

Depth (max. 450mm)

Width (max. 1600mm)

# Shaft separation required / EN 81-80 2.9 and 2.10

(for group lifts acc. to EN 81-20 5.2.5.5.2)

Mesh size 30 x 30mm 40 x 40mm Width 800mm 800mm Width 1000mm 1000mm 1250mm 1250mm 1500mm 1500mm 1750mm 1750mm 2000mm 2000mm

#### Advice.



The distance of the wire netting  $40 \times 40$ mm to movable parts must be at least 200mm (acc. to EN 81-20 5.2.5.5.2). With a mesh size of  $30 \times 30$ mm the distance can be reduced to 120mm.

Sketch

# 2. Shaft (table A.1)

Descent ladder to the shaft pit missing / EN 81-80 2.13 or existing ladder does not correspond to EN 81-20 5.2.2.4

#### Pit ladder StufiKlapp

switch-monitored, foldable shaft ladder for maximum pit depth 1.75m Overlap and floor fixation are <u>not</u> neccessary with StufiKlapp

#### Pit depth

50cm - 90cm

60cm - 117cm

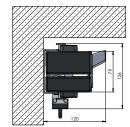
88cm - 145cm

50cm - 90cm

Storing position of StufiKlapp:

120 x 126mm

88cm - 175cm



#### **Alternatively:**

Wall ladder near the landing door (max. 800mm from the door sill)

Ladder type 5 removable, leans against door sill

Ladder type 6 is firmly mounted on the wall

mm

Ladder type 7B with lever mechanics

Pit depth

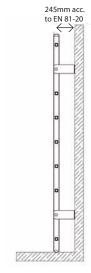
mm

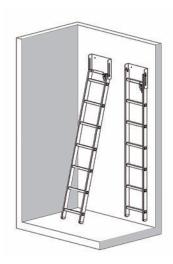


Pit depth

mm





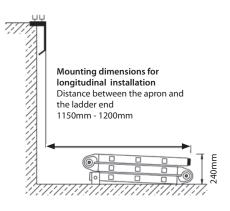




According to EN 81-20 the ladder has to be so long, that the upper end or other suitable handholds reach out at least 1.10m above the landing door sill in the vertical position of the ladder (except: Stufiklapp).



Alternatively: Folding pit ladder with floor attachment (max. pit depth 1400mm)











\*Catalogue pages 158-163



\*Catalogue pages 164-165

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3

# 2. Shaft (table A.1)



\*Catalogue pages 112-117



\*Catalogue page 124

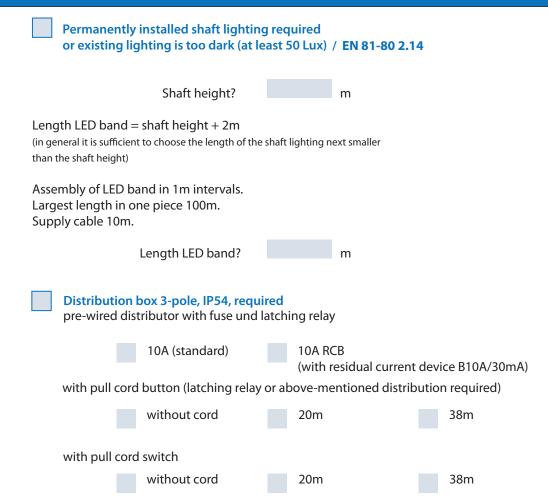


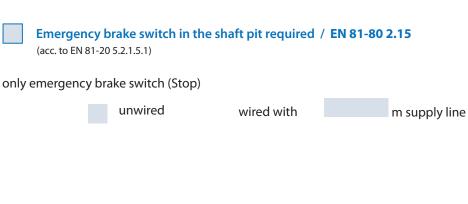
\*Catalogue page 126



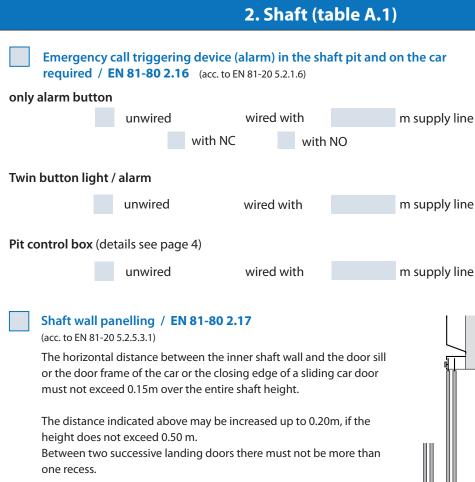


\*Catalogue pages128-136



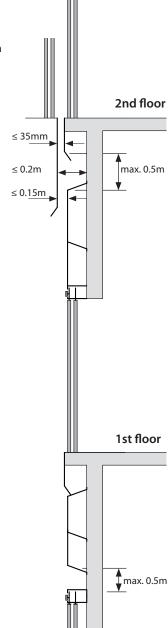






1500mm

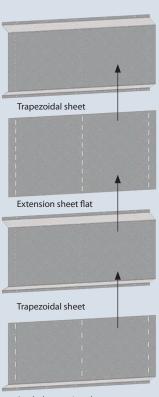
120mm







\*Catalogue page 129



Angled extension sheet



\*Catalogue page 22

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Width

Height

Sketch

1000mm

100mm

# 3. Mechanical rooms and pulley rooms (table A.1)



\*Catalogue page 126



\*Catalogue page 128



\*Catalogue page 30

## Machine room lighting is too low / EN 81-80 3.2

(acc. to EN 81-20 5.2.1.4.2 at least 200 lux on the floor) one LED light is supplied, IP54

How many lamps are needed?



pieces (at least one piece for 10m<sup>2</sup>)

Socket missing



m supply line required

Emergency brake switch in pulley rooms required / EN 81-80 3.3 (acc. to EN 81-20 5.2.1.5.2)

----,

unwired



m supply line

Anti-slip surface on floor of machine and pulley rooms required / EN 81-80 3.5 (acc. to EN 81-20 5.2.1.9)

Length

Anti-slip mat made of solid rubber, 1.5mm thick, with self-adhesive back

Width



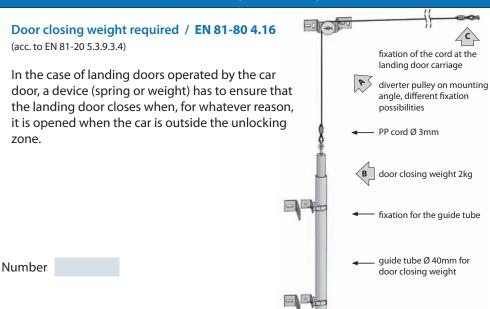
Anti-slip surface also recommended for car roof

(acc. to EN 81-20 5.4.7.1)

# 4. Shaft doors / Car doors (table A.1)



\*Catalogue pages 32-33





impact angle (to protect the weight from falling)

# 4. Shaft doors / Car doors (table A.1)

#### Lighting at landing doors required / EN 81-80 4.13

Extract from the norm (EN 81-20 5.3.7.1)

"The natural or artificial lighting of the landings in the vicinity of landing doors shall be at least 50 lux at floor level, such that a user can see ahead when he is opening the landing door to enter the lift, even if the car light has failed"



Variant 1 LineLED 3x1W 50 Lux landing door lighting

Door width

mm

Door height

mm



Number of shaft doors

Variant 2 ZargenLED - 0.8W 50 Lux lighting landing door frames

Door width

Number of shaft doors mm

Surface mounted variant Ø = 65mm, Mounting height = 16mm

**Built-in variant** Ø = 65mm





Line for the floor 2m

Line for the door 400mm

Line for the shaft 3m









\*Catalogue pages 78-81

# 5. Car and counterweight (table A.1)



#### Cabin lighting required / EN 81-80 5.7

Acc. to EN 81-20 5.4.7.1 the illuminance 1m above the ground must be 100 lux.



CabinLED3

CabinLED5

CabinLED7

CabinLED3-ESG

CabinLED5-ESG

CabinLED7-vandal proof





\*Catalogue pages 84-97



SQUARE-LED round, built-in

SQUARE-LED angular, built-in

SQUARE-LED angular, on-surface mouting

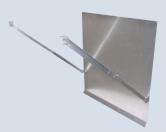


\*Catalogue pages 106-109





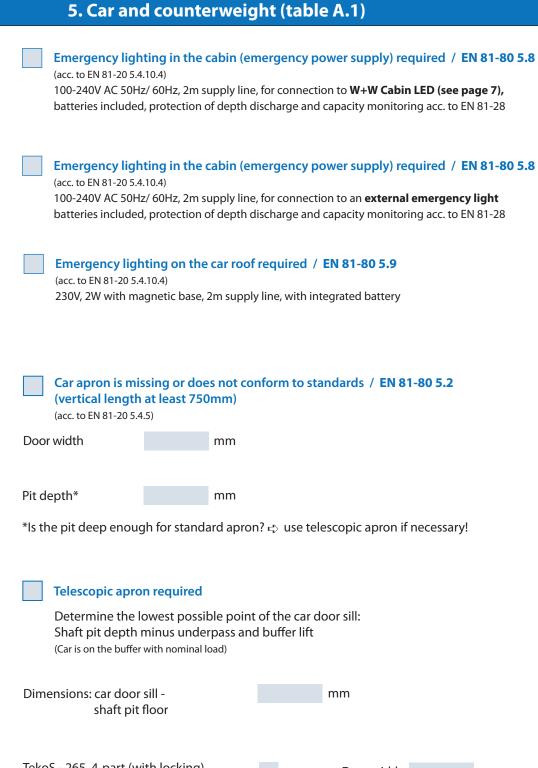


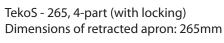


\*Catalogue page 54



\*Catalogue pages 42-54







mm

TekoS - 350, 3-part (with locking)
Dimensions of retracted apron: 350mm



Door width



TekoS - 450, 2-part (without locking)
Dimensions of retracted apron: 450mm







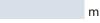
# 5. Car and counterweight (table A.1)

#### Protection against falling (guard rail) not available or standard / EN 81-80 5.5

When choosing the guard rail, the free distances acc. to EN 81-20 5.4.7.4 are to be considered:
- 0.70m height at distances 0.30m up to 0.50m (interior edge hand rail - shaft wall)

- 1.10m height at distances beyond 0.50m (interior edge hand rail - shaft wall) - 10cm distance between outer edge hand rail and any parts in the shaft.

How wide or long must the guard rail be?



Guard rail RIGID, maximum width: 1.30m (can be shortened on site)

Basic package

Height

700mm



Extension package

Height

700mm



Shall the guard rail be foldable? (reduced shaft head)

Guard rail FOLDABLE, maximum width: 1.30m (can be shortened on site)

Height 1100mm (foldable to 528mm)

Shall the guard rail be telescopic? (reduced shaft head)

Guard rail **TELESCOPIC**, maximum width: 1.30m (can be shortened on site)

Height



500- 700mm



700-1100mm



Sketch

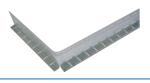
10cm high floor safety device required on the car ceiling

(acc. to EN 81-20 5.2.6.3.3)

circulating length?



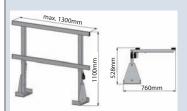
mm







**RIGID** 





FOLDABLE





TELESCOPIC

\*Catalogue pages 26-30

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# 6. Covers in the engine room (table A.1)



\*Catalogue pages 10-11



\*Catalogue pages 8-9



\*Catalogue pages 12-13

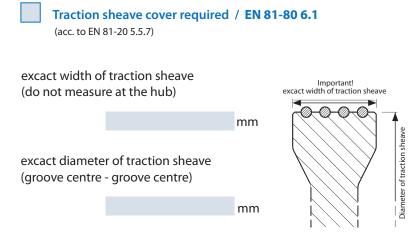


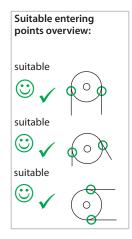
\*Catalogue page 142



\*Catalogue page 17

10





# **Alternatively:**

Universal finger and rope jump off protection / EN 81-80 6.2

sheave width up to 154mm up to 218mm Rope both vertical one inclined departure Traction 300 - 470mm sheave 480 - 720mm diameter 730 -1100mm

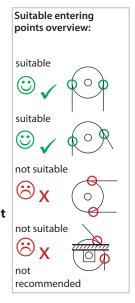
**Vertical entering point** max. 250mm standard max. 550mm max. 600mm with accessory bent

**Inclined entering point** 

Missing covers on diverter pulleys, which are located in the supporting frame or project max. 100 mm beyond the machine frame. There is a danger of fingers being drawn in at the rope transition / EN 81-80 6.3



Number of













Slack rope switch on the governor rope regiured / EN 81-80 6.8





up to 400mm



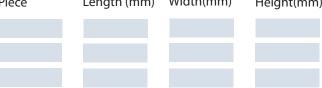


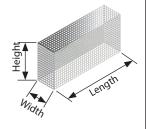
# 6. Covers in the engine room (table A.1)

Covers on diverter pulleys with vertical, horizontal or inclined rope departure required / EN 81-80 6.1 / 6.3

Number Dimensions hoods

Width(mm) Piece Length (mm) Height(mm)





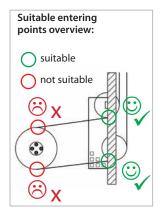


\*Catalogue page 14

Double pulley cover required / EN 81-80 6.1

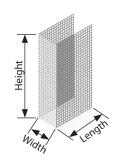
(mostly at engine room below)

1000mm Height 1200mm





Length Width 200mm 100mm 250mm 150mm 300mm 200mm 400mm 250mm 500mm 300mm 400mm





\*Catalogue page 13

Cover for overspeed governor required / EN 81-80 6.1

(overspeed governors in the shaft must also be covered) (acc. to EN 81-20 5.5.7)

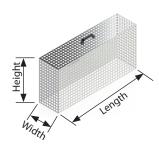
## Required hood size

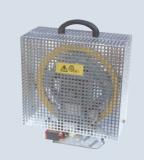
Type A L = 250, H = 230, W = 100-175mm

L = 250, H = 350, W = 100-175mm **Standard 200** Type B

L = 350, H = 300, W = 100-175mm **Standard 300** Type C

L = 350, H = 430, W = 100-175mmType C1 Type C2 L = 540, H = 350, W = 100-175mmL = 250, H = 680, W = 100-175mmType D L = 350, H = 800, W = 100-175mmType E





\*Catalogue pages 16-17

# 7. Buffer support, buffer, final limit switch (table A.1)



#### Buffer support, lift buffer required / EN 81-80 7.2

(acc. to EN 81-20 5.8)

Maximum load buffer support: 2t (provide several supports in the pit if necessary) Maximum rated velocity: max. 1m/s (>1m/s use hydraulic buffers)



\*Catalogue pages 36-37

#### Buffer support height (adjustable)

Size 1	200 - 282mm	Maximum payload +	
		· ' ' .	ka
Size 2	283 - 414mm	cabin empty weight	kg

Size 3 415 - 720mm

Size 4 721 - 1020mm Velocity m/s

Size 5 1021 - 1400mm



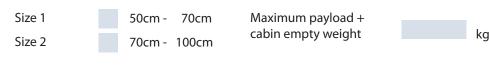
with lift buffer

#### Maintenance support required / EN 81-80 7.2

(for a temporary protective space)

Maximum load maintenance support: 2t (provide several supports in the pit if necessary) Maximum rated velocity: max. 1m/s

Maintenance support height (adjustable)







#### Lift buffer / EN 81-80 7.2

(acc. to EN 81-20/50)

Size

D1 rated velocity: max. 0.63m/s ➪ load 200-1500kg rated velocity: max. 1.00m/s ➪ load 220- 700kg

D5 rated velocity: max. 1.00m/s ➪ load 670-2700kg



\*Catalogue pages 38-39



\*Catalogue page 37



#### Final limit / position switch / EN 81-80 7.3

(acc. to EN 81-20 5.12.5)

Safety switch with slow acting or snap acting contact

PS40SC

SC = slow acting contact 1NC/ 1NO

SC = slow acting contact 2NC

PS40SP

SP = snap acting contact 1NC/ 1NO

with switch curve fastening



\*Catalogue page 143





# 8. Machine (table A.1)



(acc. to EN 81-20 5.9.2.7.2 cable lifts)
(acc. to EN 81-20 5.9.3.10 hydraulic lifts)



# 9. Electrical installations and devices (table A.1)

Protection against electric shock (control is open on the wall) / EN 81-80 9.1
Control cover required
(acc. to EN 81-20 5.10.1.2.2)

mm height
mm width

mm depth

Lockable main switch required / EN 81-80 9.4

Main switch outside the control cabinet (acc. to EN 81-20 5.10.5)

16A/7.5kW 25A/12kW

32A/16kW 40A/20kW

63A/30kW

80A/40kW

required cable length

5m 10m

<u>^</u>

Decisive for the main switch design is the rated motor current and not the motor power!

3-pole

4-pole

(neutral conductor

is also switched)



\*Catalogue page 19



\*Catalogue page 140

# 10. Protection against electrical faults, controls (table A.1)

Phase monitor required / EN 81-80 10.2

(acc. to EN 81-20 5.11.1.2)

installation in control cabinet

external housing

with 3m cable



Inspection control on car roof required / EN 81-80 10.4

wired with m supply line

Inspection control in shaft pit required / EN 81-80 10.5

Note: Retrofitting at old control systems is often problematic



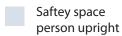
\*Catalogue page 141

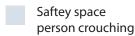


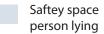
\*Catalogue page 138

# 11. Notes, markings and operating instructions (table A.1)

Notes on safe operation of the lift / EN 81-80 11.1













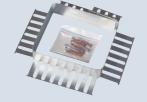
\*Catalogue pages 168-172

# 12. Miscellaneous



Edgings at ceiling openings recommended, height 50mm

(acc. to EN 81-20 5.2.6.3.3)



\*Catalogue page 25





Landing door unlocking device recommended

(acc. to EN 81-20 5.3.9.3.5)

If the landing door is the only access to the pit, according to 5.2.2.3 the door locking device must be safely accessible within a height of 1.80m and at a horizontal distance of not more than 0.80m from the pit ladder, or a permanently installed device must make it possible for a person in the pit to unlock the door.





It is possible that other parts that are not on this list may need to be retrofitted according to EN 81-80. All information is without guarantee. Errors and changes reserved.



# 13. Measures recommended

According to EN 81-80 (table A.1) further points must be checked. These include the following:					
Car door available / EN 81-80 4.20					
Protective measures against uncontrolled upward movements / EN 81-80 6.5					
Light curtain on cabin door missing					
Door height mm Number of cabin doors					
Remote emergency call system required					
Sufficient protective spaces in shaft head and pit					
These recommended points above are <b><u>not</u></b> covered by W+W Aufzugkomponenten products.					
Notes					

#### Please note:

The present list does not claim to be complete. For the most part, it contains the points where W+W Aufzugkomponenten can offer a solution.



# W+W Aufzugkomponenten

# Your contact persons at W+W Aufzugkomponenten:

### **Technical consultation and sales:**

Robert Adrion r.adrion@wwlift.de	+49 (0)211-73848-196
Lukas Bräuer I.braeuer@wwlift.de	+49 (0)211-73848- 81
Oliver Pumpler o.pumpler@wwlift.de	+49 (0)211-73848-108
Siegfried Stock s.stock@wwlift.de	+49 (0)211-73848-187
Andreas Wallraff a.wallraff@wwlift.de	+49 (0)211-73848-195

# **Order processing:**

General office	+49 (0)211-73848-183
Bettina Jordan b.jordan@wwlift.de	+49 (0)211-73848-193
Nicole Jockisch n.jockisch@wwlift.de	+49 (0)211-73848- 78
Fax E-Mail Internet	+49 (0)211-73848-570 vertrieb@wwlift.de www.wwlift.de

# W+W

Aufzugkomponenten
GmbH u. CoKG

Erkrather Straße 264-266 40233 Düsseldorf Germany

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