

Kita edge

Optimum protection in kindergartens/
day-care centers



In public institutions, especially in kindergartens/day-care centers, it is important to minimize the risk of injury as much as possible.
The German BG/GUV (employers' liability insurance association) for day-care centers specifies what measures should be taken to avoid these risks of injury, in particular by sharp edges / corners, rough surfaces and protruding parts.
In terms of interior doors, the possibilities are:

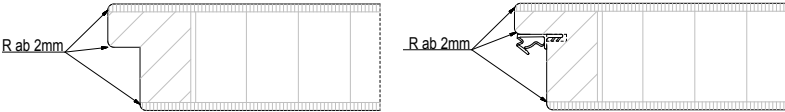
- a radius of the door edges of $\geq 2\text{mm}$
- edges $\geq 2\text{mm}$ are to be chamfered
- side closing edges should not have crush or shear points

The Kita edge of Lebo offers the following solution according to these specifications:

- all upright edges are provided with a radius $\geq 2\text{ mm}$ (due to optical uniformity, the upper edges of the doors are also provided with a radius $\geq 2\text{ mm}$)
- for the side closing edge on the stop side, Lebo recommends the finger protection FSR 6000 Quick (mounted on the rebate side), incl. cover profile FSA 8100 U-clip (mounted in the hinge area on the swing side)

The LEBO offer:

- the Kita edge is available for door leaves with an HPL surface and concealed solid beech edge band
- the edge is available in sanded only, transparent lacquer or in RAL/NCS colour lacquer matching the HPL surface
- double rebate as well as single/or double rebate sealing are available on request



Locking systems

Our door sets are available with a variety of different locking systems (e.g. multi-point locks) - including the preparation for special hotel or PIN locks. Our specialized trade partners and the LEBO sales team are at your disposal!

Panic function

- **in escape direction:** inward or outward opening; it can always be escaped
- Panic E:** *alternating function* | knob / handle
- after the escape, the door can only be opened with the help of a key
- Panic D:** *continuity function* | handle/handle
- after the escape, the door remains open and can be opened at any time by the lever handle
- Panic B:** *switch function* | handle/handle
- after the escape, the handle can only be used from the outside after opening it once.
- Panic C:** *forced closing* | handle/handle
- after the escape, the handle can be used from the outside after unlocking once, but the key remains stuck until it is closed again from the outside.

Accessories



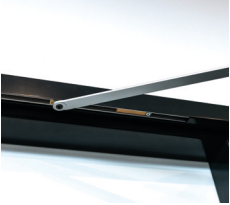
Wide-angle spy



Wide-angle spy
(Display)



Door arrester / security
link



Door closer
Dorma IT S 96



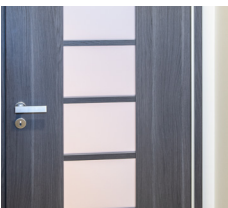
Door closer
Dorma IT S 96



Drop seal



Finger protection
FSR 6000 Quick
Stop side



Cover profile
FSA 8100 U-Clip
Swing side

The listed functions can be combined with each other!
For advice and detailed solutions, our specialized trade partners and the LEBO sales team will be happy to help!

LEBOdoors
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Functional Doors

by LEBO
2019

Information & Data



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Burglar resistance

for optimal safety



Burglar-resistant apartment-entrance doors withstand violent access attempts longer. Thus they increase the protection of material and ideal values from theft. The European EN1627 specifies the resistance classes RC1 to RC6. With each resistance class, the time needed by the burglar to open the door increases. The accessories (such as hinges and hinge pockets, locks and locking plates) are selected according to the specifications so that the door set, when properly locked, will withstand the break-in attempts for a set period of time.

Criteria for the selection of the resistance class

Resistance class	Type of burglar	Resistance time	Recommended use
RC2	opportunist burglar with simple tools	3 min.	standard security, apartment-entrance & front doors with normal risk
RC3	opportunist burglar with heavy tools	5 min.	increased security, apartment-entrance & front doors with high risk

In addition to the standard solutions for RC2 & RC3 door sets, LEBO offers a wide range of options and accessories for increased security. Our specialized trade partners and the LEBO sales team will be happy to advise you!



Climatic conditions

for a pleasant room climate



Climate protection doors compensate for different climatic conditions (air humidity, temperature) in rooms connected by them. The LEBO Thermo door finds its use by separating unheated to heated living spaces, such as between the living room and the cold hall, or as a door to the cellar. The Thermo door is a thermal-insulating element, which does not visually differ from a conventional door. However, due to a special door core it has a U-value of 0.84 (thermal transition coefficient). This value defines the heat transfer through the material layers when temperatures differ on the two sides.

- Available surfaces:
- lacquer, Lebolit, veneer and HPLs from different brands
 - edges according to surface foiled, veneered, transparent or colour lacquered

Definition of climate classes / test climate of hygrothermal stress:

- Climate class I:**
- low climatic stress
 - warm side 23°C, 30% RH ↔ cold side 18°C, 50% RH
 - recommended use as per RAL: normal room doors
- Climate class II:**
- middle climatic stress
 - warm side 23°C, 30% RH ↔ cold side 13°C, 65% RH
 - recommended use as per RAL: project doors, except apartment-entrance doors
- Climate Class III:**
- high climatic stress
 - warm side 23°C, 30% RH ↔ cold side 3°C, 85% RH
 - recommended use as per RAL: apartment-entrance doors, doors to cellars or attics.
- (RH = relative humidity)

Sound reduction

for a pleasant silence



Soundproof doors limit annoying noises at their place of origin. They prevent the penetration of sound waves into protected areas.

Building type	Areas and rooms where the doors are used	achv RW*, RW,R in db	RW, P in db
Multi-storey buildings with flats & workrooms	hallways & stairwells ↔ living rooms of apartments	27 (37) 37	32 (42) 42
schools / education buildings	corridors ↔ classrooms & similar	32	37
Hotels & other provision of short-stay accomodation	corridors ↔ accommodations	32 (37)	37 (42)
hospitals / sanatoria	examination or consulting rooms ↔ examination or consulting rooms corridors ↔ examination or consultation rooms corridors ↔ patient's rooms surgery or patient's rooms ↔ surgery or treatment rooms corridors ↔ surgery or treatment rooms	37 32 (37) 32 32	42 37 (42) 37 37

* the RW, R-value given here results from the suitability test and must be at least the according, achieved RW value
** according to Germany requirements

With appropriate accessories also private rooms such as baths, bedrooms and children's rooms can be equipped for an increased sound reduction. Our specialized trade partners and the LEBO sales team will be happy to advise you!

Fire protection

Security of life and values



Fire doors prevent the spread of fires, stabilize burning buildings and facilitate the salvation of people and values.

- We offer 30 min. fire/smoke protection according to DIN 4102/DIN 18095 or the EN1634 with a variety of combination options, such as:
- with wooden wrap-around frames
 - for steel frames, as well as for cover and block frames
 - frames with or without transom for glazed top lights or the installation of top panels
 - in flush-optics as well as full-flush incl. light openings
 - with surface milling in various style variants (Luana / Gap / V-groove / ...)
 - as double-door variants
 - with cable ducts, which connect the door to the frame, enabling the electrical control of locks
 - with additional sealing levels due to double reabates and/or additional rebate sealings

Concerning the various options and variants, our specialized trade partners and the LEBO sales team will be happy to advise you!

