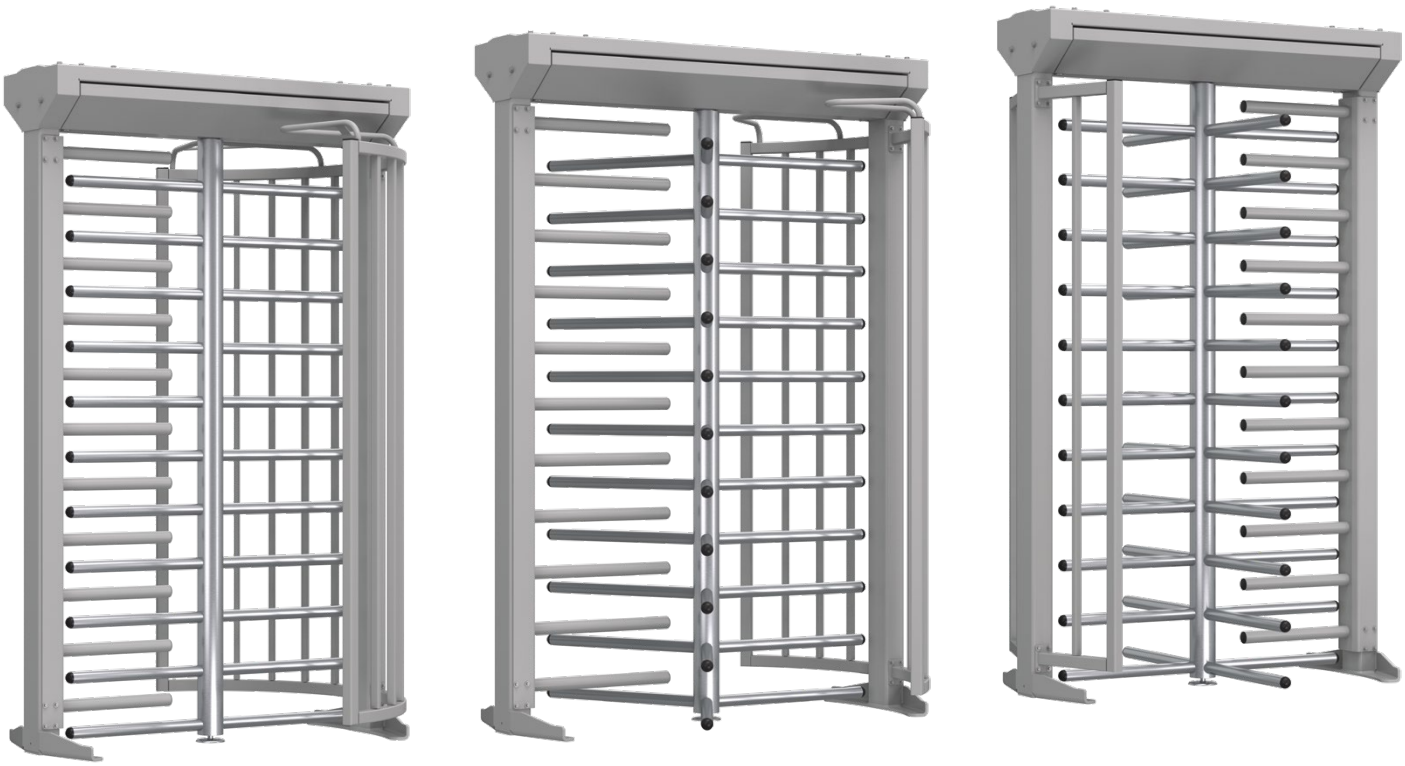
dormakaba

Kentaur
Turnstiles
Full-height gates



Technical product brochure

Secure Kentaur Turnstiles

Versatile
Durable
Modular

The robust Kentaur turnstiles and full-height gates are especially suitable for securing the perimeter of buildings and property. Versatile versions enable individual combinations of multiple units to be put together. The end point locking system developed by dormakaba prevents people from being trapped in the gates.

Versatility
The Kentaur product series offers a modular design. Two, three and four-winged units with straight or U-shaped bars can be combined with each other. The same applies for units with bicycle doors, integrated doors, or of resistance class RC2. The roofs fit with any of the single, multiple or space-saving double units.

Minimal power consumption
The quiet low-energy drive consumes very little energy and adapts to the speed of the person entering.

Safe passage
The end point locking implemented in Kentaur turnstiles prevents people from becoming trapped or jammed. After release the turnstile may be stopped at any time and rotated backwards as long as it has not yet completed half of its rotation. Once the turnstile has completed half of its rotary motion, the unit can only be exited in the released direction.

Advantages of Kentaur Turnstiles

The right combination of security, user comfort and personal safety.

- Users cannot become stuck thanks to end point locking
- Versions with integrated bicycle door, full-height gates for barrier-free access or as a goods entrance or in resistance class RC2
- Space-saving double units
- Modular combination of bars, roofs, guiding and barrier elements
- Lasting quality for indoor and outdoor installation
- Stainless steel version of the system possible
- Rotating speed adapts to the pedestrian
- Low-energy drive
- Low power consumption
- Behaviour in the event of a power failure can be freely determined
- Can be used in regions with harsh environmental conditions
- IP55 protection possible
- Integrated, parameterisable random generator
- Optional secondary identification for additional security
- Sensor-monitored pass-through signal possible
- Difference counter possible in both directions
- Spacing between shearing edges eliminates risk of injury
- Suitable for max. snow load of 4.28 kN/m² = snow load zone 3 according to DIN EN 1991-1-3
- Suitable for max. wind speed of 108 km/h = wind load zone 4 according to DIN EN 1991-1-4
- All distances are dimensioned in accordance with DIN EN 17352 so that there is no risk of injury

Kentaur full-height gates in a matching design offer a fitting addition for disabled access.

The ideal solution for any access point

01
Turnstile with integrated full-height gate as entrance to an underground car park

02
Controlled access to a stadium

03
Turnstile offering additional protection for a restricted area

04
Full-height gate as goods entrance

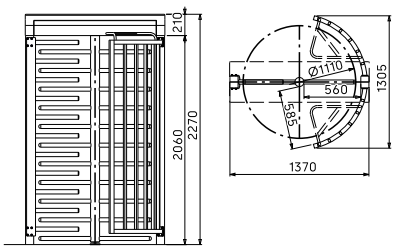
For reliable security at:

- Manufacturing plants
- Company sites
- Airports and ports
- Power plants
- Car parks
- Bicycle stands
- Correctional facilities
- Military installations
- Educational centres
- Stadiums
- Amusement parks

Throughputrate	= up to 20 per minute
Security level	= ●●●●○
Comfort	= ●●●○○
Staff supervision	= no

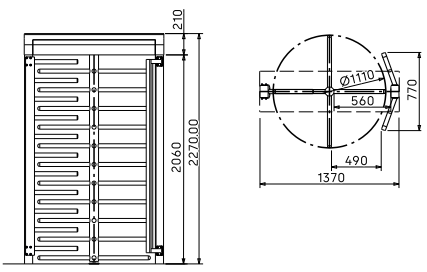
Kentaur turnstiles

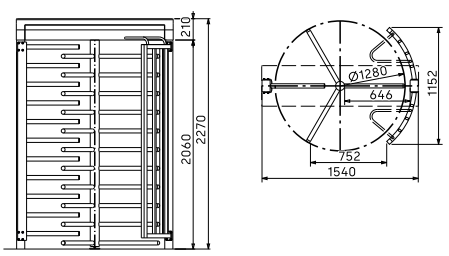
Standard units		Kentaur FTS-E01
Construction	Rotating unit diameter	1110
	Portal width	1370
	Total height (without opt. roof)	2270
	Passage height	2060
	Passage width	560
	Portal and housing	Steel.
	Lockable maintenance opening	Aluminium.
	Rotating unit with tubular column, Ø 89 m	180° each with 11 bar-shaped stainless steel AISI 304 crossbars
	Barrier element	With 11 straight crossbars, made of steel.
	Passage limitation	With steel columns and climb-over protection.
Finish		Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).
	Corrosiveness category	C3 according to DIN EN ISO 12944-2.
Function		Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked).
Electrical equipment		The control unit is integrated into the unit.
	Power supply	100-240 VAC - 50/60 Hz - 253 VA.
	Standby power consumption	20 VA.
Installation		In sleeve foundation, measure X = 150 mm.
	Optional roofs	Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.
Protection classes		Housing IP33, components conducting supply voltage IP43.
Norm		DIN EN 17352 Further standards in the CE declaration.



All dimensions in mm

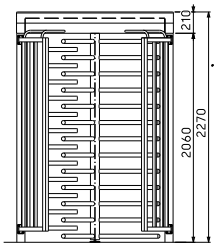
Kentaur FTS-L04	Kentaur FTS-E02
1110	1280
1370	1540
2270	2270
2060	2060
490	646
Steel.	Steel.
Aluminium.	Aluminium.
90° each with 11 bar-shaped stainless steel AISI 304 crossbars	120° or 90° each with 11 bar-shaped stainless steel AISI 304 crossbars
With 11 straight crossbars, made of steel.	With 11 straight crossbars, made of steel.
With steel columns and climb-over protection.	With steel columns and climb-over protection.
Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).	Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).
C3 according to DIN EN ISO 12944-2.	C3 according to DIN EN ISO 12944-2.
Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked).	Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked).
The control unit is integrated into the unit.	The control unit is integrated into the unit.
100-240 VAC - 50/60 Hz - 253 VA.	100-240 VAC - 50/60 Hz - 253 VA.
20 VA.	20 VA.
In sleeve foundation, measure X = 150 mm.	In sleeve foundation, measure X = 150 mm.
Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.	Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.
Housing IP33, components conducting supply voltage IP43.	Housing IP33, components conducting supply voltage IP43.
DIN EN 17352 Further standards in the CE declaration.	DIN EN 17352 Further standards in the CE declaration.

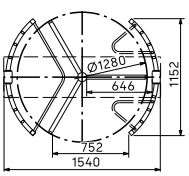




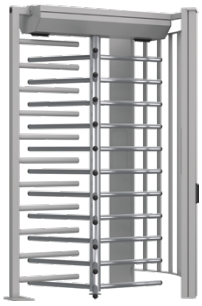
Kentaur turnstiles

Standard units		Kentaur FTS-E04
Construction	Rotating unit diameter	1280
	Portal width	1540
	Total height (without opt. roof)	2270
	Passage height	2060
	Passage width	646
	Portal and housing	Steel.
	Lockable maintenance opening	AISI 304 stainless steel.
	Rotating unit with tubular column, Ø 89 m	120° each with 13 bar-shaped stainless steel AISI 304 crossbars.
	Barrier element	With 12 curved steel bars.
	Passage limitation	With steel columns, climb-over protection and saw-through protection.
	Additional function	The unit complies with resistance class RC2 according to DIN V ENV 1627.
Finish		Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).
	Corrosiveness category	C3 according to DIN EN ISO 12944-2.
Function		Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked).
Electrical equipment		The control unit is integrated into the unit.
	Power supply	100-240 VAC - 50/60 Hz - 253 VA.
	Standby power consumption	20 VA.
Installation		In sleeve foundation, measure X = 150 mm.
	Optional roofs	–
Protection classes		Housing IP33, components conducting supply voltage IP43.
Norm		DIN EN 17352 Further standards in the CE declaration.

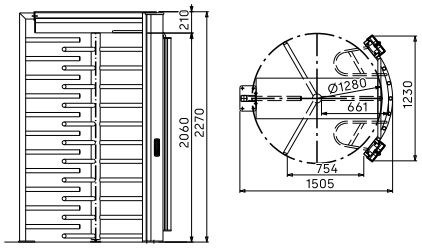


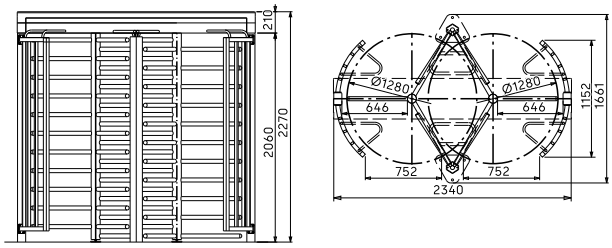


All dimensions in mm



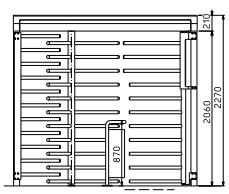
Kentaur FTS-E05	Kentaur FTS-E06
1280	1280
1500	2340
2270	2270
2060	2060
646	646
Steel.	Steel.
Aluminium.	Aluminium.
120° or 90° each with 11 bar-shaped hot-dip galvanised steel crossbars.	120° each with 11 bar-shaped stainless steel AISI 304 crossbars.
With 11 straight crossbars, made of steel.	In middle part with 21 straight crossbars made of steel.
With steel columns and climb-over protection.	With steel columns and climb-over protection.
–	Minimal space requirement due to interlocking rotating units.
Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).	Stainless steel elements glossy AISI 304, steel, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).
C3 according to DIN EN ISO 12944-2.	C3 according to DIN EN ISO 12944-2.
Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked).	Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked).
The control unit is integrated into the unit.	The control unit is integrated into the unit.
100-240 VAC - 50/60 Hz - 253 VA.	100-240 VAC - 50/60 Hz - 506 VA.
20 VA.	40 VA.
On finished floor level FFL.	In sleeve foundation, measure X = 150 mm.
–	Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.
Housing IP33, components conducting supply voltage IP43.	Housing IP33, components conducting supply voltage IP43.
DIN EN 17352 Further standards in the CE declaration.	DIN EN 17352 Further standards in the CE declaration.

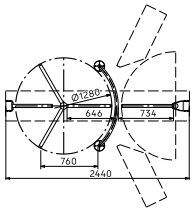




Kentaur turnstiles

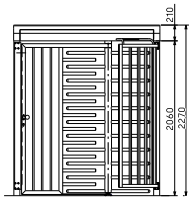
Standard units		Kentaur FTS-M01
Construction	Rotating unit diameter	1280
	Portal width	2440
	Total height (without opt. roof)	2270
	Passage height	2060
	Passage width	646
	Portal and housing	Steel.
	Lockable maintenance opening	Aluminium.
	Rotating unit with tubular column, Ø 89 m	120° each with 11 bar-shaped stainless steel AISI 304 crossbars.
	Barrier element	With 11 straight crossbars or 7 bow-shaped, made of steel, with climb-over protection.
	Passage limitation	Half-height made of curved tubular AISI 304 stainless steel with plate panels.
	Additional function	Automatic bicycle door.
Finish		Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).
	Corrosiveness category	C3 according to DIN EN ISO 12944-2.
Function		Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked). Automatic bicycle door with two induction loops and loop detector, electronically controlled in two directions.
Electrical equipment		Control system integrated in the unit.
	Power supply	100-240 VAC, 50/60 Hz, 506 VA.
	Standby power consumption	20 VA.
Installation		In sleeve foundation, measure X = 150 mm.
	Optional roofs	Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.
Protection classes		Housing IP33, components conducting supply voltage IP43.
Special feature		–
Norm		DIN EN 17352 Further standards in the CE declaration.

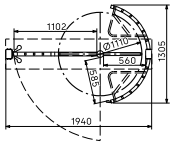


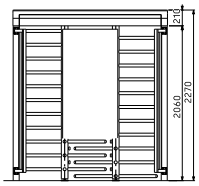


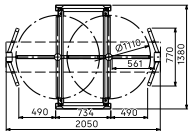
All dimensions in mm

Kentaur FTS-M05	Kentaur FTS-L01
1110	1110
1940	2050
2270	2270
2060	2060
560	490
Steel.	Steel.
Aluminium.	Aluminium.
180° each with 11 bar-shaped stainless steel AISI 304 crossbars.	90° each with 11 bar-shaped stainless steel AISI 304 crossbars.
Integrated swing door with 10 straight crossbars and continuous frame.	Steel in the mid-section, encased in stainless steel, semi-gloss smooth finish on the front panels.
With steel columns and climb-over protection.	With steel columns.
Integrated door that can be opened when required, disabled access and suitable for emergency escape.	Low space requirement due to interlocking rotating units.
Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).	Stainless steel elements glossy AISI 304, hot-dip galvanised steel elements, aluminium elements in RAL 9006 (white aluminium).
C3 according to DIN EN ISO 12944-2.	C3 according to DIN EN ISO 12944-2.
Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked). SafeRoute-Emergency exit function: The rotating unit turns automatically 90° in passage direction when the door is opened.	Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked). SafeRoute-Emergency exit function: The rotating unit turns automatically 90° in passage direction when the door is opened.
Control system integrated in the unit.	The control unit is integrated into the unit.
100-240 VAC - 50/60 Hz -335 VA.	100-240 VAC, 50/60 Hz, 506 VA.
20 VA.	40 VA.
In sleeve foundation, measure X = 150 mm.	On finished floor level FFL.
Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.	Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.
Housing IP33, components conducting supply voltage IP43. IP44 escape route terminal.	Housing IP33, components conducting supply voltage IP43.
–	Ideal for stadiums.
DIN EN 17352 Further standards in the CE declaration.	DIN EN 17352 Further standards in the CE declaration.



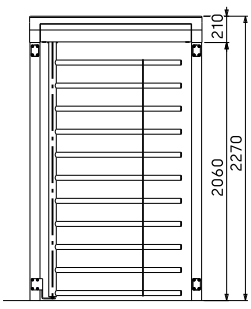


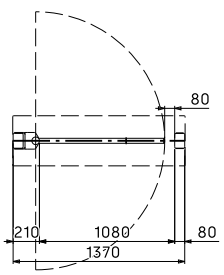




Kentaur Drehflügeltür

Standard unit		Kentaur FGE-M01
Application		Barrier-free passage of persons and material handling.
Construction	Portal width	1370
	Total height (without opt. roof)	2270
	Passage height	2060
	Passage width	1080
	Portal and housing	Steel.
	Lockable maintenance opening	Aluminium.
	Hinge door with tubular column, Ø 60 mm	With 11 bar-shaped glossy stainless steel AISI 304 crossbars.
Finish		Stainless steel elements glossy AISI 304, Hot-dip galvanised steel elements. aluminium elements in RAL 9006 (white aluminium).
	Corrosiveness category	C3 according to DIN EN ISO 12944-2.
Function		Power-assisted motion; servo-positioning drive/electrically controlled in both directions (behaviour in event of power failure can be selected for each direction: free or blocked). SafeRoute-Emergency exit function: The rotating unit turns automatically 90° in passage direction when the door is opened.
Electrical equipment		The control unit is integrated into the unit.
	Power supply	100-240 VAC - 50/60 Hz - 253 VA.
	Standby power consumption	20 VA.
Installation		In sleeve foundation, measure X = 150 mm.
	Optional roofs	Suitable for max. snow load of 4.28 kN/m². Suitable for max. wind speed of 108 km/h.
Protection classes		Housing IP33, components conducting supply voltage IP43.
Norm		DIN EN 17352 Further standards in the CE declaration.





All dimensions in mm

Optional roofs

	Kentaur FTS-E01	Kentaur FTS-L04	Kentaur FTS-E02	Kentaur FTS-E04	Kentaur FTS-E05	Kentaur FTS-E06	Kentaur FTS-M01	Kentaur FTS-M05	Kentaur FTS-L01	Kentaur FGE-M01
Roof D1 – depth 1500 or 2770 (total height 120)										
Width										
1650	•	•								•
1820			•							
2220								•		
2330									•	
2620						•				
2720							•			
Roof D2 and **Roof D3** – depth 2820 (roof edge 200)										
Width										
1830	•	•								•
2000			•							
2400								•		
2510									•	
2800						•				
2900							•			

Roofs to prevent people climbing over and for weather protection

Roof D1
Hot-dip galvanised steel substructure, trapezoidal sheet cover in RAL 9002 grey-white (optional plastic-coated in a RAL colour).
For multiple units we supply one continuous roof. For four units or more a central water outlet is required.
The distance between units is 50 mm.

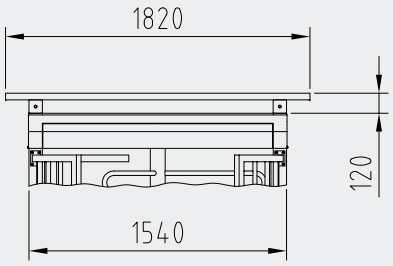
Roof D2
Hot-dip galvanised steel substructure, trapezoidal sheet cover in RAL 9002 grey-white (optional plastic coating in a RAL colour).
With roof edge in RAL 9006 and water outlet in grey PVC.
For multiple units we supply one continuous roof. The distance between units is 50 mm.
The roof edge is continuous with a length of max. 6.4 m.

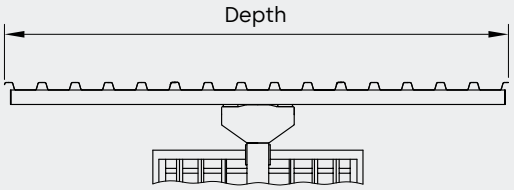
Roof D3
Hot-dip galvanised steel substructure, trapezoidal sheet cover in RAL 9002 grey-white (optional plastic coating in a RAL colour).
With roof edge in RAL 9006 and water outlet in grey PVC.
Roof underside with aluminium cladding in RAL 9010.
For multiple units we supply one continuous roof. The distance between units is 50 mm.
The roof edge is continuous with a length of max. 6.4 m.

All roofs are able to withstand a max. snow load of 4.28 kN/m² = snow load zone 3 according to DIN EN 1991-1-3, and max. wind speed of 108 km/h = wind load zone 4 according to DIN EN 1991-1-4.

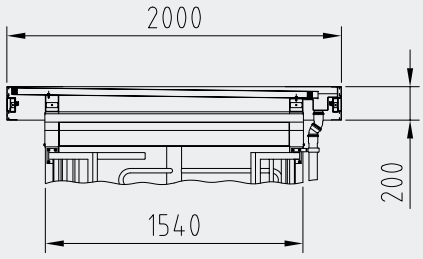
All dimensions in mm

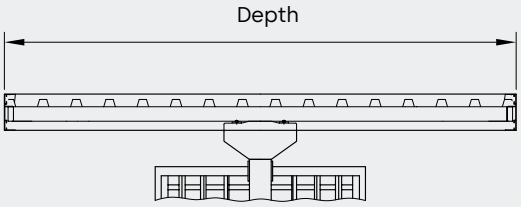
Roof D1 – with trapezoidal sheet cover



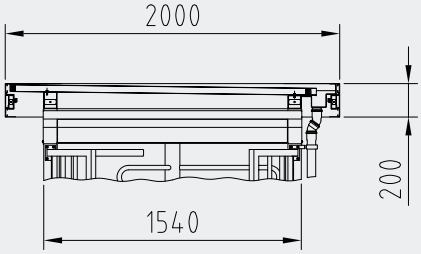


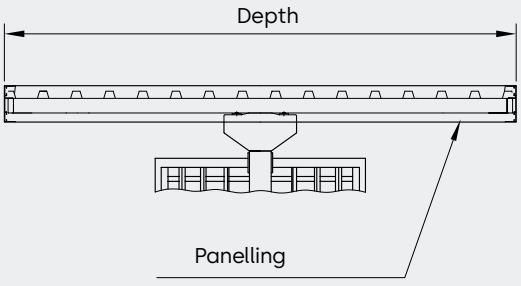
Roof D2 – with trapezoidal sheet cover, roof edge profile and water outlet





Roof D3 – with trapezoidal sheet cover, roof edge profile, panelling and water outlet





All dimensions in mm

Options

(depending on unit type)

	Kentaur FTS-E01	Kentaur FTS-L04	Kentaur FTS-E02	Kentaur FTS-E04	Kentaur FTS-E05	Kentaur FTS-E06	Kentaur FTS-M01	Kentaur FTS-M05	Kentaur FTS-L01	Kentaur FGE-M01
Construction										
Housing with lockable front panel.			•			•				
Roofs D1, D2 and D3.	•	•	•			•	•	•	•	•
Curved barrier element, instead of straight crossbars.			•							
Rotating unit with curved crossbars including curved barrier element.			•				•			
Rotating unit made of AISI 316 stainless steel.	•	•	•			•	•	•	•	
Rotating unit 4-wing (90 °) made of hot-dip galvanized steel.					•					
For each direction: mechanical pivoted lever unlocking with profile half cylinder, installed in maintenance opening.	•	•	•		•	•	•	•	•	•
Finish										
Steel parts and maintenance openings also powder-coated in RAL.	•	•	•	•	•	•	•	•	•	•
Corrosiveness category C5-M.	•	•	•			•			•	
Function										
Door opener with slide bar, installed in portal housing or drive, in each case for integrated door.								•		
Two concrete blocks with embedded induction loops instead of loops supplied loose.							•			
Random generator with or without horn.	•	•	•	•	•	•	•	•	•	
Electrical equipment										
Installation preparation for dormakaba detection unit 90 04 and dormakaba compact reader 91 04.	•		•	•	•	•			•	•
Different consoles made completely of stainless steel or plastic or aluminium in colour of unit or in RAL 9006. Front panels of aluminium consoles available in plastic or stainless steel.	•	•	•	•	•	•	•	•	•	•
Button for manual single release.	•	•	•	•	•	•		•	•	
Continuous release in the entry/exit direction.	•	•	•	•	•	•	•	•	•	
Operating panels and frames or surface mount housing.	•	•	•	•	•	•	•	•	•	•
Additional circuit boards for expanding existing inputs and outputs on unit type 2.	•	•	•	•	•	•	•	•	•	•
Signal device.	•	•	•	•	•	•	•	•	•	•
Various LED lighting and twilight switch options.	•	•	•	•	•	•	•	•	•	•
Heating.	•	•	•	•	•	•	•	•	•	•
Installation										
Turnstile unit can be assembled at the factory.	•		•		•					
Mounting on finished floor level.	•	•	•	•		•	•	•	•	•
Mounting on sub floor level X = 150 mm.	•	•	•	•		•	•	•	•	•

All dimensions in mm

Console 1 unit made of plastic the same colour as the unit, W/H/D 94/94/65 mm with Ø 65 mm opening, e.g. for contactless readers.

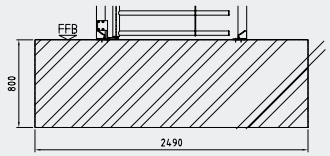
Console 2 unit made of aluminium including front plate, the same colour as the unit, W/H/D 140/180/110 mm.

Console 3 unit made of aluminium including front plate, the same colour as the unit, W/H/D 140/365/110 mm.

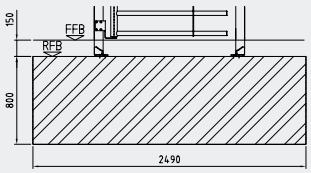
Installation variants

Installation variants using FGE-M01 as an example

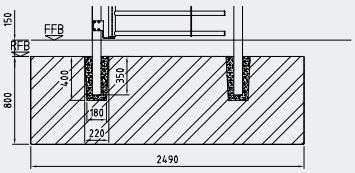
Finished floor level



Sub floor level

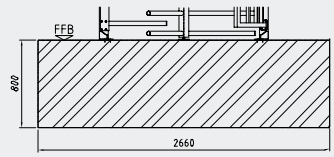


Sleeve foundation

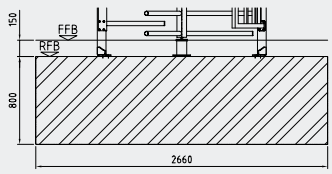


Installation variants using FTS-E02 as an example

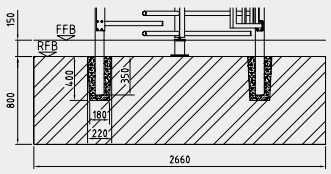
Finished floor level



Sub floor level



Sleeve foundation



All dimensions in mm

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability

Our offering

Access Automation Solutions

Entrance Automation
Entrance Security

Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems

Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems

Services

Technical Support
Installation and commissioning
Maintenance and Repair

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