"state of the art in fire protection technology"

F

F

UNIVER NINZ DOORS

1+k

FEATURES	6-9
SPECIFIC OPTIONAL ACCESSORIES	10
PERFORMANCES	11
ADDITIONAL PERFORMANCES	12 - 13
DOOR CROSS SECTIONS - MEASUREMENTS	14
INSTALLATION METHODS	15
ORDER MEASUREMENTS	16
OPENING MEASUREMENTS - OVERALL DIMENSIONS	17



WHAT MAKES THEM SPECIAL?

"Quality first"

- Fully galvanized door, including the "hidden" parts
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius) oven
- Substantial paint layer (70 microns plus)
- Optimal corrosion resistance demonstrated by 500 hour salt-fog test
- Unaffected by severe climate changes, demonstrated by 2000 hours with +60° to -10° cycles at 75% humidity
- Finishing with high-quality aesthetics
- Orange skin anti-scratch structured paint
- Customizable with wide selection of RAL colors

"Practicality of use"

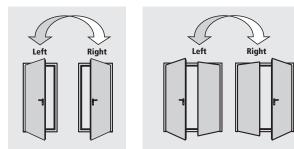
- Door reversibility
- Indication of door opening direction not necessary
- Reduction of stock for retailers
- Simplifies choices for end-customers
- Multiple installation methods for each door
- Type approvals for anchors for mortar fixing or expansion screws

"Conformity to standards"

- In-house Ninz R&D with specialized testing equipment
- Fire testing in accordance with UNI 9723 and EN 1634-1
- Mechanical testing for the CE marking of accessories
- CE-marked door accessories studied and sized to meet standard European requirements
- Careful selection of materials and manufacturing methods
- Strict product testing for conformity to declared technical standards
- Absolute functional certainty over time
- Doors "type approved" in compliance with M.D. 21 June 2004
- Products delivered with the documentation required by current regulations

"Manufacturing technology"

- Manufacturing in modern and functional facilities which employ the latest technologies to maintain high quality levels and product uniformity
- The entire production process from raw materials to painted and packaged products - takes place inside Ninz's own facilities, ensuring a 360 degree door control



One-leaved doors available in the following classes:





Two-leaved doors available in the following classes:





STANDARD ELEMENTS

Door leaf

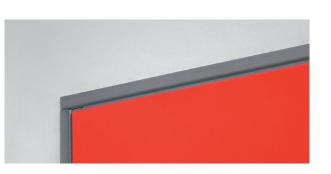
- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 4 sides
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated with treated mineral wool
- Internal stiffeners for overhead door closer and panic bar

Doorframe

- Made of "Sendzimir" processed hot-galvanized sheet metal
- Grooves for thermo expansive sealing and rebate sealing
- Suitable for anchors for mortar fixing or expansion screws
- Detachable rebate for application on finished flooring
- Removable threshold for thresholdless installation
 Strike plates in black plastic for lock bolt and safety
- bolts
- Assembled doorframes for one-leaved doors
- Assembly required for two-leaved doorframes

Thermo expansive sealing

- Mounted on vertical doorframe profiles and central vertical profiles on two-leaved doors
- For on-site mounting on the doorframe's upper crossbeam
- Mounted above and below the EI,90 and REI 120 leaves









Hinges

- Nr. 2 three-wing hinges for each leaf
- of which one ball-bearing hinge with screws for vertical adjustment of the leaf, C€ marked as per EN 1935, classified for up to 160 kg load, 200.000 cycles durability, suitable for fire door use
- and one hinge with self-closing spring

Safety bolts

- Nr. 2 safety bolts on hinge side leaf edge

Locking mechanism

- Reversible locking mechanism with bolt and central lock
- CE marked in conformity with EN 12209 standard
- Insert with patent key, Euro profile cylinder ready

Handle

- Fire rated handle in black plastic with steel core
- Steel installation plate with cylinder hole
- Cover plate in black plastic
- Fastener screws and patent key insert

Features

UNIVER Fire doors



INCLUDED ACCESSORIES

Closing regulator

- Two-leaved doors include an RC/STD closing regulator to ensure the correct closing sequence of the leaves
- CE marking in conformity with EN 1158 standard

Locking mechanism for inactive leaf

- "Flush-bolt" automatic locking of the inactive leafLever control for unlocking

Upper coupling system for the inactive leaf

- Inactive leaf lock activated device which inserts rod into the upper strike box
- Upper strike box in black plastic with steel roller

Lower coupling system for the inactive leaf

- Vertical rod with steel point which inserts into lower strike box
- Floor catch (floor-mounted floor catch) made of selfextinguishing black plastic, for doors without threshold
- Floor catch in black plastic with a steel roller, for doors with threshold

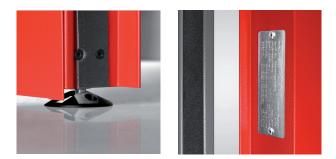
Identification plate

Metal tag with door identification data, in accordance with current regulations

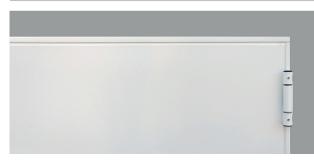








Standard paint - group 01: RAL 9010





Finishing

- Standard painted with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, antiscratch finishing
- Standard paint RAL 9010

Standard packaging

- Single door wrapped into stretchable polyethylene (PE) film
- Assembled doorframes for one-leaved doors
- Assembly required for doorframes for two-leaved doors
- Palletized on wooden pallets

Door weight		kg/m ² of wall opening	
class	1 leaf	2 leaves	
E 60	23		
El,60	36	35	
EI,90, REI 120	43	41	

NOTE

If the door ever needs to be repainted, follow the precise instructions on the "Painting" section.



OPTIONAL ACCESSORIES

A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Univer doors to your own specific needs.

The proper accessories can help resolve:

Safety-related needs

- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit hand-les)
- Open doors which must be closed in case of fire (see leaf holding systems)

Installation and utilization needs

- Frame extensions
- Drip steel-profile
- Special fastener screws
- Kick and protection plates in stainless steel
- Roofing

Access-related control issues

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms

Performance enhancing

- Sealing
- Cylinders
- Door closers
- Special closing regulators
- Special handles



NOTE

Details on the optional accessories may be found in the following chapters of this brochure:

- Painting
- Accessories for metal doors
- Emergency handles and panic bars

Right-opening doors are the default selection if opening direction is not specified.







Customized finishing

- Select finishing from a wide variety of RAL colours
- Stainless steel handles
- Colored handles

Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories:

- On construction sites
- During shipping abroad
- For special transport

Specific optional accessories

UNIVER Fire doors



FRAME EXTENSIONS FOR UNIVER DOORS

IM 12

Frame extensions to be mounted in addition to the Univer frame acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint, fixing with screws and plugs (screws and plugs not included).

IM 12: for installation on 80mm (min.) wall thickness

IM 14

Telescopic frame extensions to be screwed to the Univer doorframe acting as a wall cladding. Consists of two overlapping profiles with a 25mm adjustable range. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint.

Complete with fastener screws. To mount the frame extension, fixing holes need to be drilled into doorframe on site. Combine with sealing to conceal the screw heads.

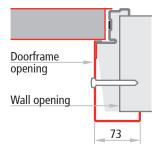
IM 14: for installation on 135mm (min.) wall thickness

REBATE SEALING

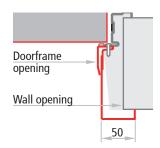
CR sealing (for E and EI_2 doors) and sealing (for REI doors) in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame.

Sealing in black extruded profile self-adhesive to cut for application to the central joint of two-leaved doors.













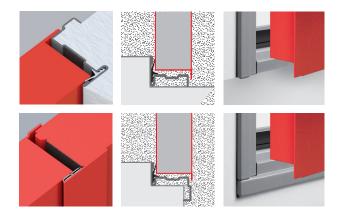
UNIVER Fire doors



S200, C5 ENHANCED PERFORMANCES

Mandatory accessories

Enhanced performance	features	type	mandatory optional accessories	reference in brochure
		1 leaf	- rubber seal CR	UNIVER fire door
El ₂ 60-S200	Smoke control Door	T leal	- Nr. 1 automatic door sweep	ACCESSORIES
	SHICKE CONTO DOOL	2 leaves	- rubber seal CR	UNIVER fire door
			- Nr. 2 automatic door sweep	ACCESSORIES
El ₂ 60-C5	Durability: 200,000 cycles	1 leaf	- Nr. 1 door closer	ACCESSORIES
		2 leaves	- Nr. 2 door closers	ACCESSORIES



MECHANICAL STRENGHT PERFORMANCES

Performance requirements and classifications

class	tested FM L X H dimensions	type	description of the performance	reached class	standard reference
El ₂ 60			resistance to vertical load	4	EN 1192:2002
	2000 (1000 + 1000) × 2125	2 Januar	resistance to static torsion	4	EN 1192:2002
	2000 (1000 + 1000) x 2125	2 leaves	resistance to soft and heavy body impact	4	EN 1192:2002
			resistance to hard body impact	3	EN 1192:2002

Additional performances

UNIVER Fire doors

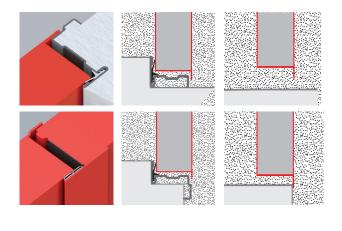


INTERNAL PEDESTRIAN DOORS

Test report No. CPR/35/05/2019 (E 60) Test report No. CPR/35/04/2019 (El₂60) Test report No. CPR/35/06/2019 (REI 120/El₂90)

Pedestrian interior doors are not yet subject to marking as the relevant standard EN 14351-2 has not yet entered into force. The performances contained in the standard can however be a reference for classifying the door for indoor, such as:

- air permeability according to EN 1026:2001
- thermal transmittance according to EN ISO 10077-1:2018 e EN ISO 10077-2:2018



All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

- Combo Thermo/CB (with lower threshold):
- frame on all 4 sides
- if the door is installed on an escape route, it is necessary to fill the difference in height on the push side between the floor and the lower threshold with cement mortar
- isolation of the door frame with the filling of cement mortar
- installation of rubber seals along the entire perimeter of the door frame including the central rebate for double leaved doors
- sealing of the perimeter of the frame (push side)
- Combo Thermo/SB (without lower threshold):
- isolation of the door frame with the filling of cement mortar
- installation of rubber seals along the 3 sides of the frame including the central rebate for two-leaved doors

ATTENTION

For the dimensional limits, minimum border measurements or production possibilities please refer to the specific pages of this brochure.

The values for the thermal transmittance W/m²K shown in the table on the next page are given by the calculation according to the norm EN ISO 10077-1 done on samples of the dimensions 1,23x2,18 for areas \leq 3,6m² and on samples of the dimensions 2,00x2,18 for areas > 3,6m².

Additional performances UNIVER Fire doors

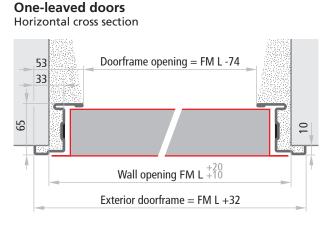


INTERNAL PEDESTRIAN DOORS

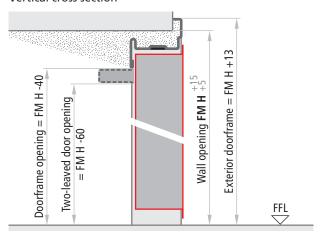
Test report No. CPR/35/05/2019 (E 60) Test report No. CPR/35/04/2019 (El₂60) Test report No. CPR/35/06/2019 (REI 120/El₂90)

			Combo Thermo/CB with lower threshold and gasket on all 4 sides		Combo Thermo/SB without lower threshold and gasket on 3 sides	
ТҮРЕ	FM L x H	Class	air permeability according to UNI EN 1026:2001	thermal transmittance according to UNI EN 10077-1:2018 UNI EN 10077-2:2018	air permeability according to UNI EN 1026:2001	thermal transmittance according to UNI EN 10077-1:2018 UNI EN 10077-2:2018
without window		El ₂ 60	classe 2	1,5 W/m²K	-	1,5 W/m²K
_	\leq 3,6 m ²	E 60	classe 2	1,6 W/m²K	-	1,6 W/m²K
		REI 120/EI ₂ 90	classe 2	1,5 W/m²K	-	1,5 W/m²K
	\leq 3,6 m ²	El ₂ 60	classe 3	1,9 W/m²K	-	1,9 W/m²K
without window	> 3,6 m ²	El ₂ 60	classe 3	1,5 W/m²K	-	1,5 W/m²K
	\leq 3,6 m ²	E 60	classe 3	2,0 W/m²K	-	2,0 W/m²K
	> 3,6 m ²	E 60	classe 3	1,6 W/m²K	-	1,6 W/m²K
	\leq 3,6 m ²	REI 120/EI ₂ 90	classe 3	1,9 W/m²K	-	1,9 W/m²K
	> 3,6 m ²	REI 120/EI ₂ 90	classe 3	1,5 W/m²K	-	1,5 W/m²K

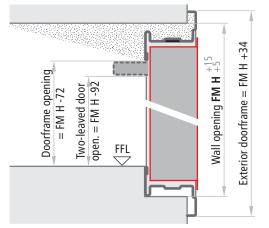




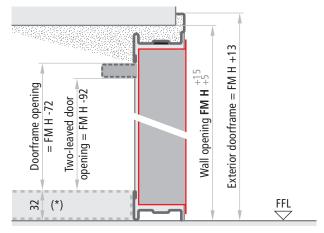
Doors without lower threshold Vertical cross section



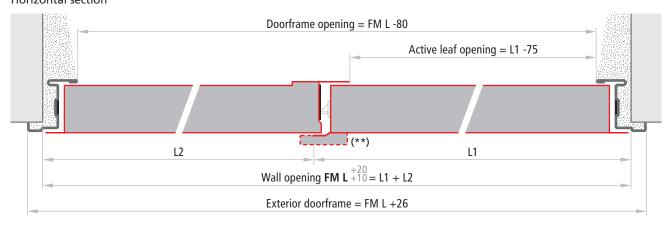
Doors with internal and external lower thresholds Vertical cross section



Doors with internal lower threshold Vertical cross section



Two-leaved doors Horizontal section



Leaves thick	ness	
Fire doors	60 mm	

NOTE

The tolerances FM L $^{+20}_{+10}$, FM H $^{+15}_{+5}$ of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar.

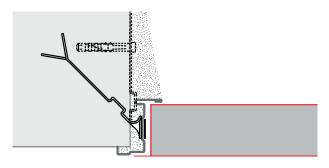
(*) Shimming to be done, mandatory in case of installation onto emergency exit routes. (**) Only for El_290 fire rated doors



INSTALLATION WITH ANCHORS FOR MORTAR FIXING

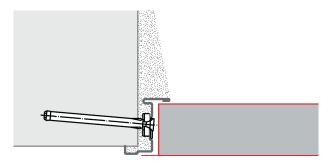


For mortar fixing, appropriate cuts will need to be created in the walls (section 80 x 200 mm). The anchors should be bent and blocked inside the wall. For fire sealing purposes and a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar.



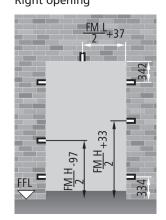
INSTALLATION FOR EXPANSION SCREWS FIXING

For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation requires holes to be drilled through the thermo expansive sealing. The doorframe has pre-drilled holes. For fire sealing purposes and a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar.

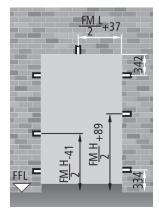


ANCHOR POSITIONING

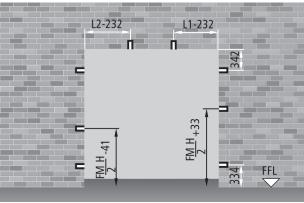
One-leaved doors Right opening



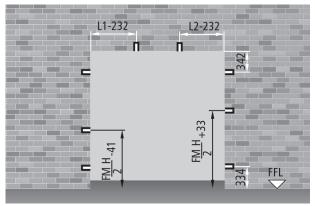
Left opening







Left opening



NOTE

Proper installation requires 80 x 200 mm holes to be dug into the masonry.

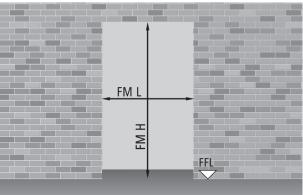
Order measurements

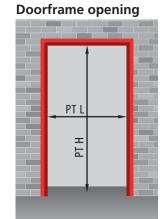
UNIVER Fire doors



ORDER MEASUREMENTS

Wall opening





One-leaved doors PT L = FM L - 74 PT H = FM H - 40

Two-leaved doors PT L = FM L - 80 PT H = FM H - 40

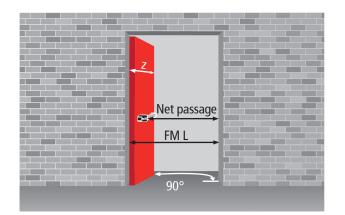
E 60 one-leaved doors FM L x FM H			PT L x PT H		fire-rating	
standard dimensio	ns		doorframe o	opening	class	
800	Х	2050 / 2150	726	x 2010/2110	E 60	
900	Х	2050 / 2100 / 2150	826	x 2010 / 2060 / 2110	E 60	
1000	Х	2050 / 2100 / 2150	926	x 2010 / 2060 / 2110	E 60	

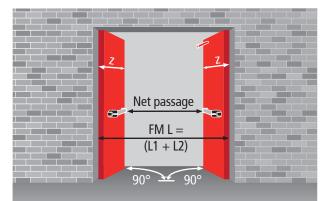
EI and REI one-leaved doors FM L x FM H			PT L x P	ГН	fire-rating	
standard dimensions			doorframe opening		class	
800	Х	2050 / 2150	726	x 2010 / 2110	El ₂ 60, El ₂ 90, REI 120	
900	х	2050 / 2100 / 2150	826	x 2010 / 2060 / 2110	El ₂ 60, El ₂ 90, REI 120	
1000	Х	2050 / 2100 / 2150	926	x 2010 / 2060 / 2110	El ₂ 60, El ₂ 90, REI 120	
1100	Х	2050 / 2150	1026	x 2010/2110	El ₂ 60, REI 120	
1200	Х	2050 / 2150	1126	x 2010/2110	El ₂ 60, El ₂ 90, REI 120	
1300	х	2150	1226	x 2110	REI 120	
1350	х	2150	1276	x 2110	REI 120	

El an	d REI two-lea	ived o	loors FM L x FM H	PT L x PT H	H net passage	fire-rating
standa	rd dimensions		·	doorframe opening	for RC/STD encumbrance	class
1200	(700 + 500)	х	2150	1120 x 2110	2090	El ₂ 60
1200	(800 + 400)	х	2050 / 2150	1120 x 2010 / 2110	1990 / 2090	REI 120
1300	(800 + 500)	х	2150	1220 x 2110	2090	El ₂ 60
1300	(900 + 400)	х	2050 / 2150	1220 x 2010 / 2110	1990 / 2090	REI 120
1400	(900 + 500)	х	2150	1320 x 2110	2090	El ₂ 60
1400	(1000+ 400)	х	2050 / 2150	1320 x 2010 / 2110	1990 / 2090	REI 120
1600	(800 + 800)	х	2050 / 2150	1520 x 2010 / 2110	1990 / 2090	El ₂ 60, El ₂ 90, REI 120
1800	(900 + 900)	х	2050 / 2150	1720 x 2010 / 2110	1990 / 2090	El ₂ 60, El ₂ 90, REI 120
2000	(1000 + 1000)	Х	2050 / 2150	1920 x 2010 / 2110	1990 / 2090	El ₂ 60, El ₂ 90, REI 120



OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING





Net passage calculation		E 60	El ₂ 60 - El ₂ 90 - REI 120	El ₂ 60 - El ₂ 90 - REI 120
panic bar type	protrusion	one-leaved doors	one-leaved doors	two-leaved doors
EXUS	125	FML - 226	FML - 236	FML - 404
TWIST	100	FML - 201	FML - 211	FML - 354
SLASH	75	FML - 176	FML - 186	FML - 304
FAST TOUCH	75	FML - 176	FML - 186	FML - 304
without panic bar	-	FML - 101	FML - 111	FML - 154
z = leaf protrusion relative to the wall		FML + 29	FML + 29	L1 + 35 L2 + 64

OVERALL DIMENSIONS WITH 180 DEGREE OPENING - HANDLE HEIGHT

One-leaved doors x = FML + 5

Two-leaved doors x = L1 + 5 y = L2 + 35 h handle = FMH/2 + 50 h handle = FMH/2 + 50b = 130 (only in the presence of panic bars or M14 handles)

