



TKZ ESPRIT
PLUS Z

TKZ



TKZ ESPRIT HINGES FOR MODERN INTERIORS



TKZ Esprit hinges are the ideal solution for modern offices, public buildings, and apartment and family home construction projects.

Smooth 3D adjustability enables precision alignment of the door in the frame for a flawless seal that prevents heat loss. The high-quality TKZ ESPRIT hinge is subjected to 200,000 test cycles without any maintenance intervention. Key characteristics include silent operation and proven reliability in intensive use scenarios.

The elegant design and selection of finishes make it easy to choose hinges that match the style of any interior.

TKZ ESPRIT
concealed
hinge

TKZ ESPRIT HINGES FOR NONREBATED DOORS



A modern and universal solution

Engineered using the latest technologies, the TKZ ESPRIT concealed hinge is the ideal solution for nonrebated doors

- genuine Czech product
- concealed hinge
- 3D adjustability
- universal left/right installation
- 186° opening angle
- stainless-steel pins on ball bearings

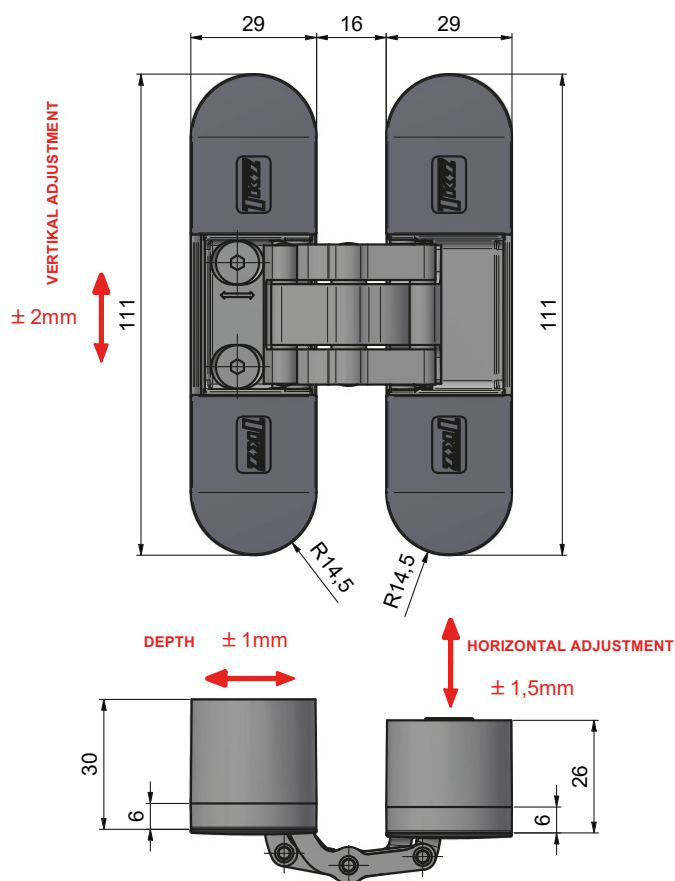
Finishes:

- satin nickel
- satin bronze
- matt black RAL 9005
- matt white RAL 9016

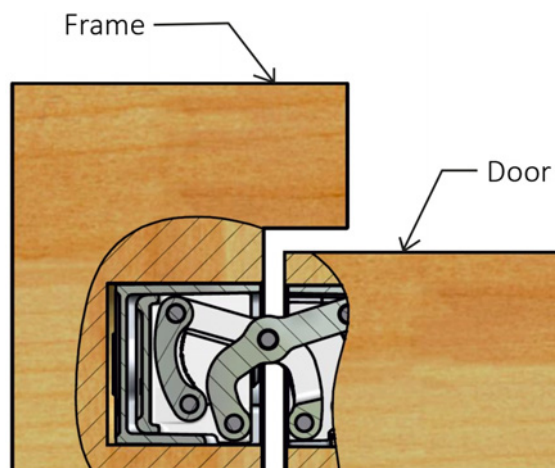
Cover plates:

The hinges are supplied with matching snap-on cover plates for installation after final adjustments have been made.

Technical specifications



sectional view



LOAD CAPACITY, CERTIFICATION, AND INSTALLATION

Load capacity:

Hinge load capacity for
2000x800 mm door
1 hinge: certified 30 kg

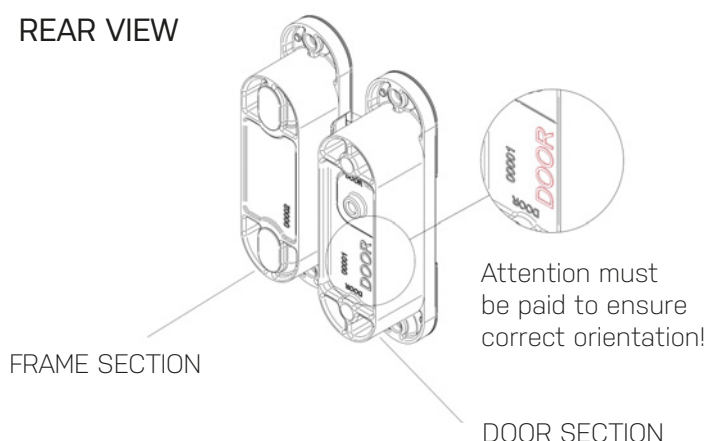
Hinge certification:



The hinge load capacity is tested and certified in compliance with ETA 18/0877 **class 10**. The hinge is certified to **EI 30/EW 30 fire resistance** and has an **RC2 security rating**. Validity of the RC2 and EI 30/EW 30 certification is contingent on the use of suitable security devices designed to prevent the door from being taken off its hinges.

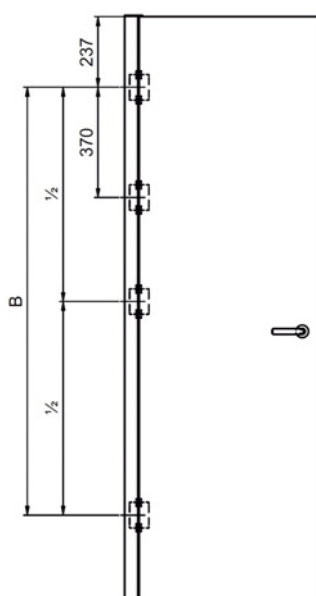
Hinge placement

REAR VIEW



Installation per DIN standards

DIN 18 101



DOOR WIDTH (mm)

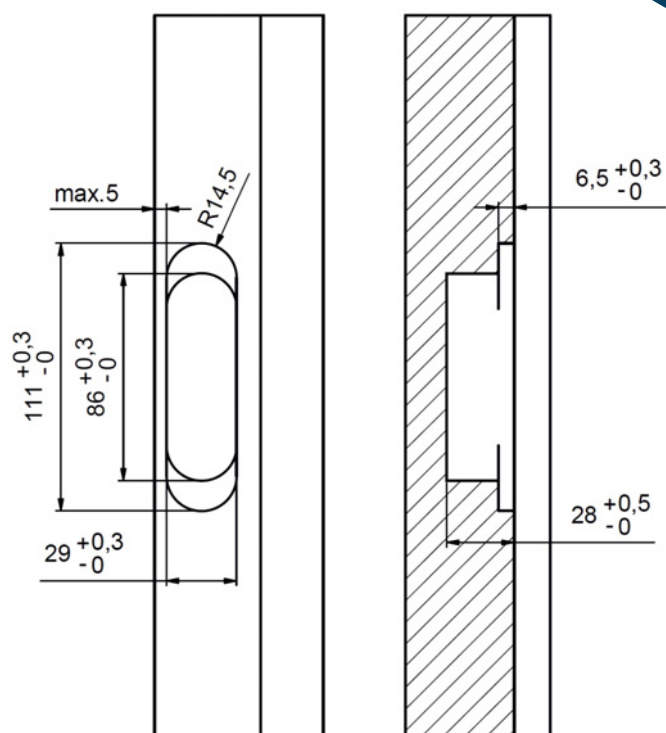
	600	800	900	1000
80			NOT RECOMMENDED	NOT RECOMMENDED
75			>3 HINGES	
70				
65			3 HINGES	
60				
55			2 HINGES	
50				
45				
40				

Installation video

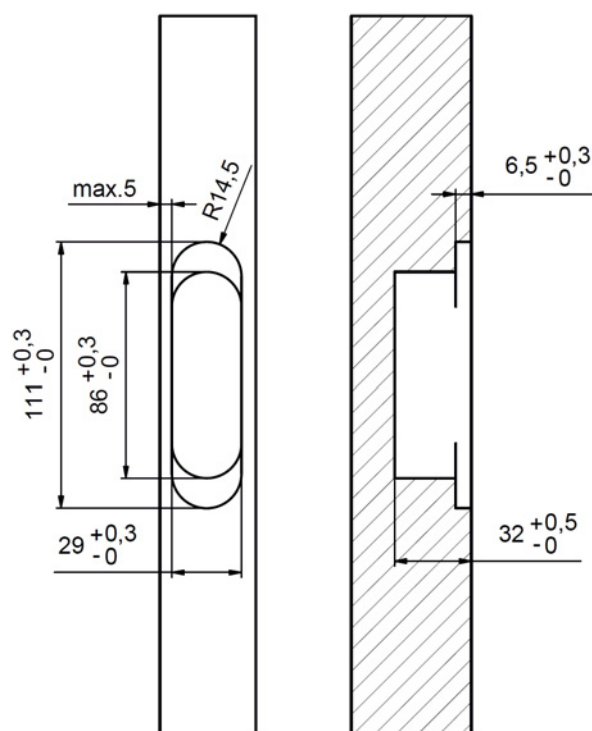


Door height	B
1860 - 2110 mm	1435 mm
2111 - 2235 mm	1560 mm
2236 - 2360 mm	1685 mm

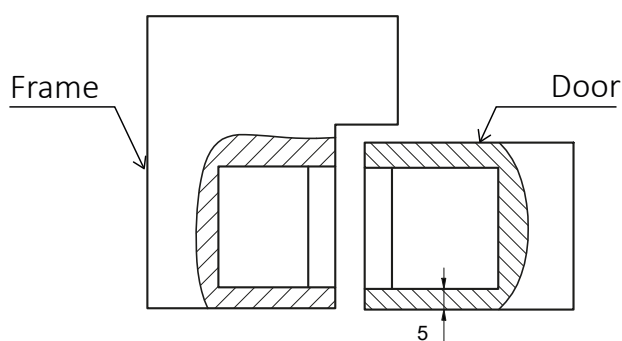
TKZ ESPRIT HINGES – MORTISES FOR INSTALLATION



Frame
mortise

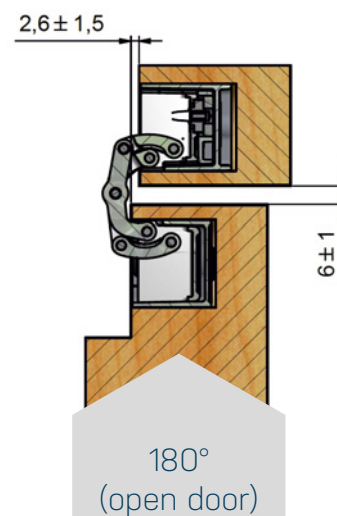
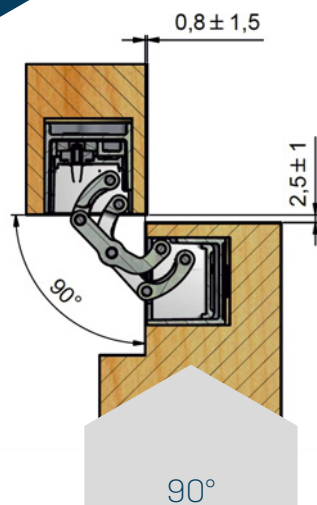
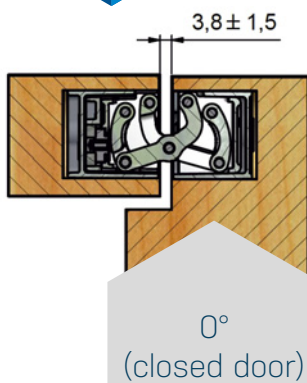


Door
mortise



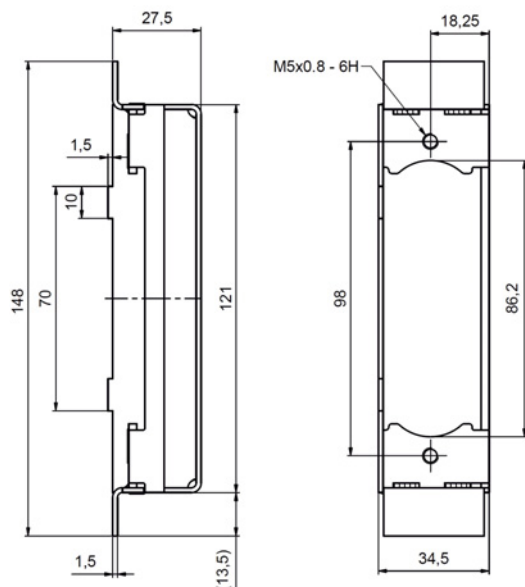
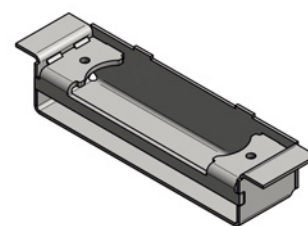
Frame
and door
sectional
view

TKZ ESPRIT HINGES – KINEMATICS

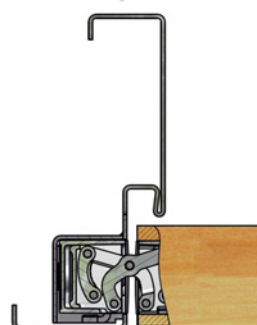


TKZ ESPRIT HINGE BRACKET FOR METAL DOORFRAME

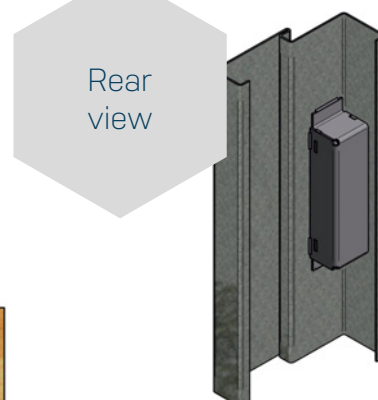
9835 0530 Hinge bracket TKZ ESPRIT OZ Zn



Sectional
view



Rear
view



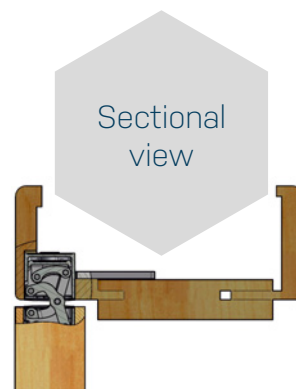
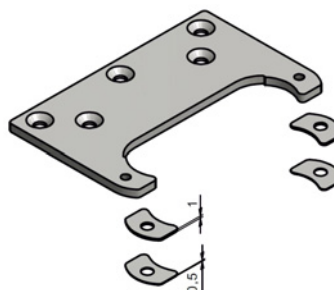
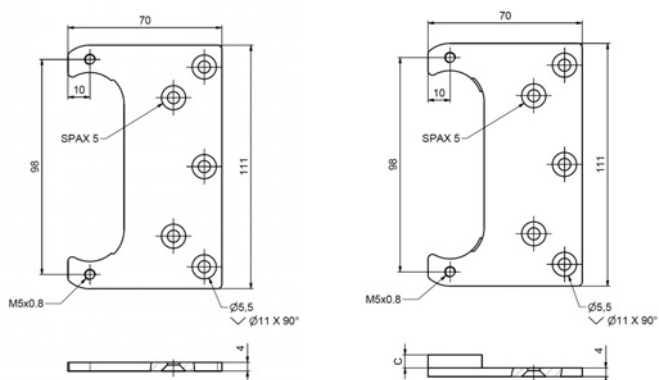
TKZ ESPRIT BACKPLATE

9837 0530	TKZ ESPRIT galvanized backplate 0 mm
9844 0530	TKZ ESPRIT galvanized backplate 2 mm
9838 0530	TKZ ESPRIT galvanized backplate 4 mm
9836 0530	TKZ ESPRIT galvanized backplate 6 mm
9839 0530	TKZ ESPRIT galvanized backplate 9 mm

Set includes:

1 x backplate
2 x spacers 1mm
2 x spacers 0.5 mm

	C (mm)
9844	2
9838	4
9836	6
9839	9



DETERMINING CORRECT BACKPLATE THICKNESS

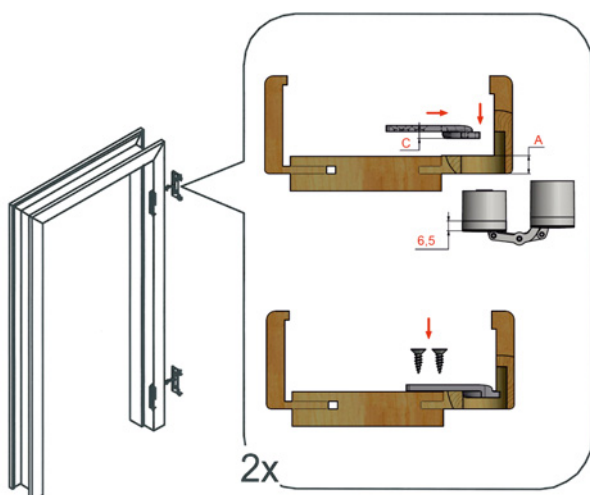


Hinge
mounted in
the plate

$$C = A - 6,5$$

A – casing thickness at hinge mounting point

Mounting plate depth (C) can be adjusted by using the supplied spacers.



TKZ ESPRIT PLUS Z HINGES – ADJUSTMENT

Adjusting the TKZ ESPRIT PLUS Z set

ALL ADJUSTMENTS MUST BE MADE WITH A 3 MM HEX KEY
(AFTER INSTALLATION OF THE HINGES ON THE DOOR AND FRAME)

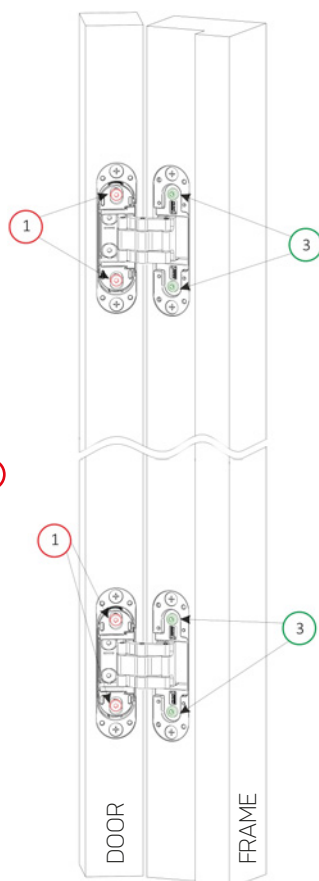
VERTICAL ADJUSTMENT

RECOMMENDATION: INSERT WEDGES
BENEATH THE DOOR FOR EASIER
HANDLING

LOOSEN THE ADJUSTING SCREWS BY AT
LEAST ONE FULL TURN ①

WITH THE WEDGES IN PLACE, MANUALLY
RAISE OR LOWER THE DOOR BY +/- 2 MM

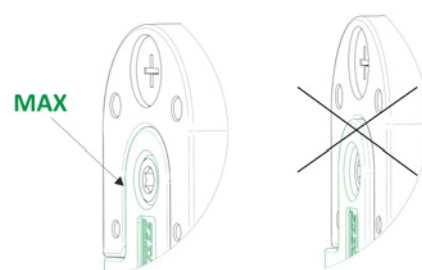
RETIGHTEN THE ADJUSTING SCREWS! ①



HORIZONTAL ADJUSTMENT

GENTLY ADJUST THE DOOR BY
+/- 1.5 MM ③ TURN BOTH SCREWS TO
ADJUST THE POSITION OF THE DOOR

RECOMMENDATION: WHEN MAKING
ADJUSTMENTS, DO NOT EXTEND THE
DOOR AWAY FROM THE FRAME BEYOND
THE MAXIMUM RANGE. DOING SO MAY
PREVENT CORRECT INSTALLATION OF
THE COVER PLATES.

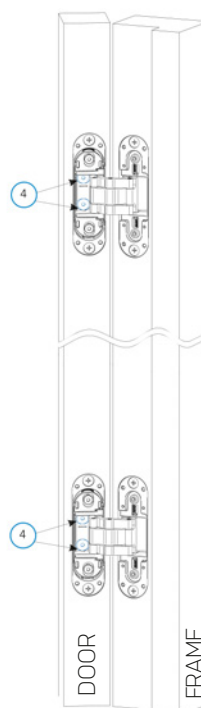


DEPTH ADJUSTMENT

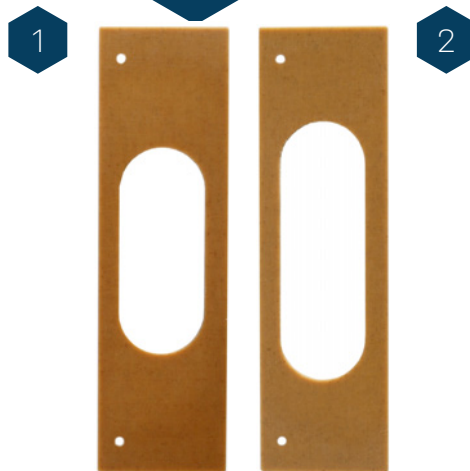
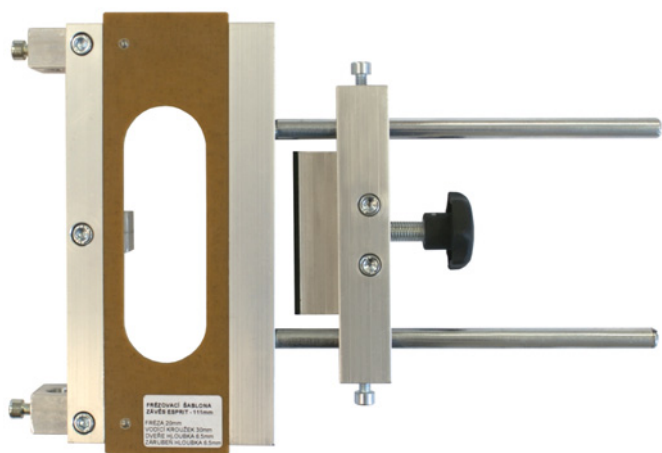
LOOSEN THE ADJUSTING SCREWS ④

MANUALLY ADJUST THE DOOR BY +/- 1 MM

RETIGHTEN THE ADJUSTING SCREWS! ④

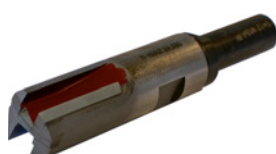


TKZ ESPRIT MORTISE TEMPLATE



To cut mortises with the template (6775), use:

- 30 mm template guide
- straight router bit:
 - diameter 20 mm
 - length 110 mm



template supplied with two jigs

- 86 mm and 111mm

1 Jig

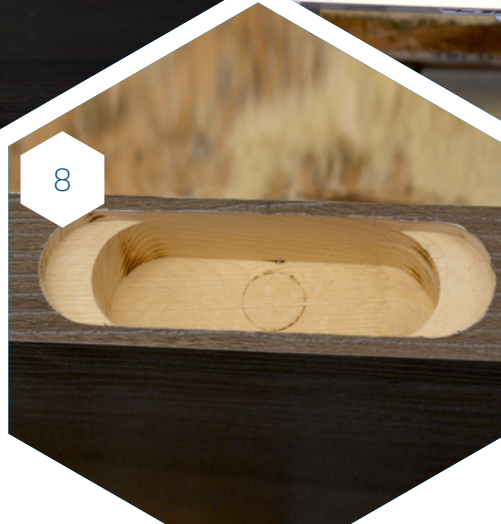
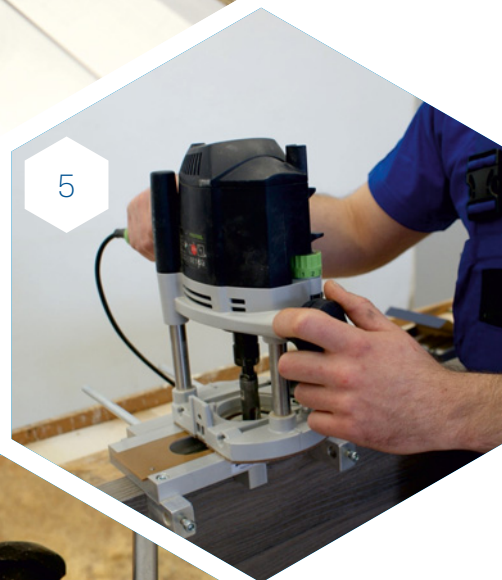
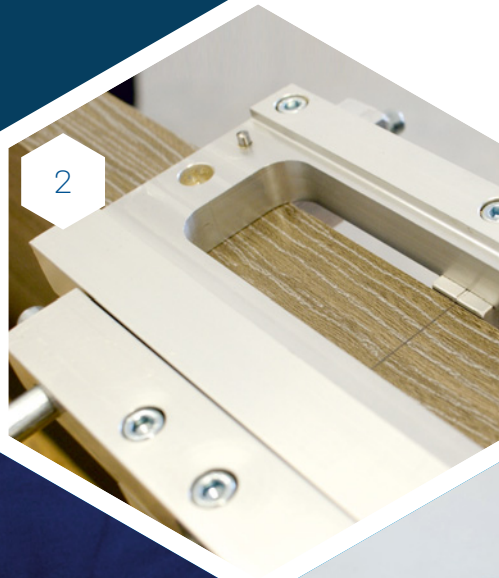
- cut the door mortise to a depth of 32 mm
- cut the frame mortise to a depth of 28 mm
- bit diameter 20 mm
- template guide diameter 30 mm

2 Jig

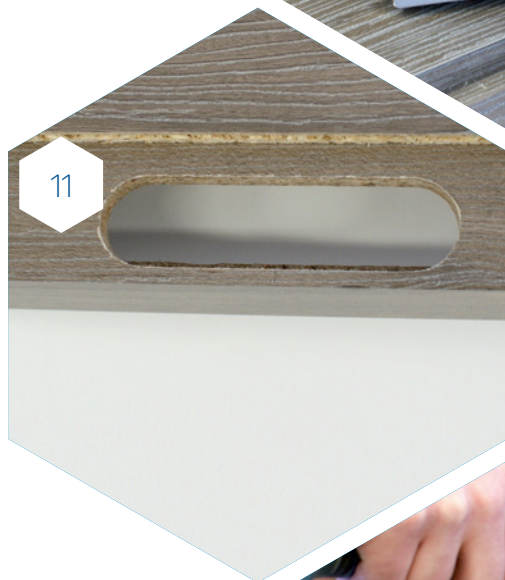
- cut the door mortise to a depth of 6.5 mm
- cut the frame mortise to a depth of 6.5 mm
- bit diameter 20 mm
- template guide diameter 30 mm



INSTALLING HINGE IN DOOR



INSTALLING HINGE IN DOORFRAME





TKZ Polná, spol. s r.o.

A leading Czech manufacturer
of building and furniture hardware
with more than 100 years
of tradition.



Zahradní 572, 588 13 Polná, Czech Republic
tel: +420 567 155 271, E-mail: sales@tkz.cz, www.tkz.cz