

METABOX



METABOX

The versatile metal drawer system

www.blum.com

Perfecting motion  **blum**[®]

METABOX — A drawer system with endless possibilities



Efficient storage in contemporary styling

With METABOX, Blum offers an economical steel drawer for different application options in the kitchen, bathroom and office.



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Virtually unlimited storage solutions

The METABOX drawer program has a wide range of heights, lengths and optional accessories available. Within this comprehensive system, everything stored is easy to access and even small or bulky items are handled with ease.

METABOX's design complements the style of panel cabinetry that has gained popularity because of its effective use of cabinet interior space. Since it is fully compatible with the 32 mm cabinet construction system, the METABOX program makes installation quick and precise.

METABOX is a great solution for kitchens, baths, office, healthcare and commercial applications.



Features & benefits

- Application possibilities
- Contemporary design
- Three-dimensional front adjustment
- Easy cam height adjustment
- Simple insertion and removal
- With BLUMATIC self-closing feature
- Single extension is available with BLUMOTION soft closing option

Testing standards

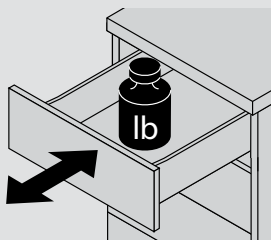


Testing standards

Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. All Blum runners must pass these tests without showing a measurable reduction in performance or deviation in adjustment position. Testing standards vary between products and applications.

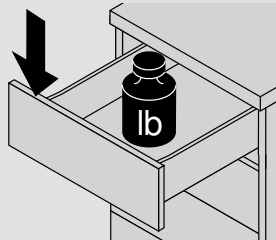
All Blum runners meet or exceed ANSI/BHMA 156.9 grade 1 requirements. Contact your local Blum representative for more details.

Dynamic wear test



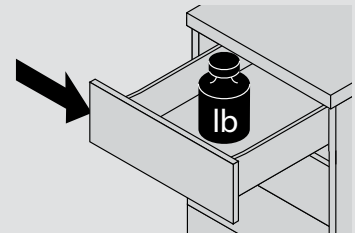
100,000 open/close cycles with a total load of 75 lb on a 550 mm drawer.

Static load test



10 times for 10 seconds each time when completely extended, 66 lb is applied to the corner of the drawer front of a fully loaded drawer.

Side pressure test



10 times for 10 seconds each time when completely extended, 33 lb is applied to the side of the drawer front of a fully loaded drawer.



General information

All Blum hardware undergoes strict quality control procedures through all stages of production. Blum hardware is designed for cabinets and cabinet components made from wood, melamine or MDF. Careful attention must be paid to installation and operating instructions when using Blum hardware (see catalogs and instruction sheets for all technical information). The manufacturer must decide on the screws or attachment methods to suit the material being used (i.e. wood, melamine, etc.). The hardware must not be exposed to acidic or corrosive materials (i.e. some household cleaning solutions). To ensure that Blum hardware functions correctly, it must be kept clean and undamaged. For any additional information please contact your Blum representative. Anyone selling Blum hardware must ensure that their customer is aware of any relevant information given in this catalog.

Conditions of sale and delivery

All deliveries and services are based on the "general conditions of sale" which are available upon request. The technical presentations and dimensions in illustrations are non-binding. We reserve the right to make changes to specifications at any time. We do not accept any responsibility for any errors which may occur in the production of this catalog.

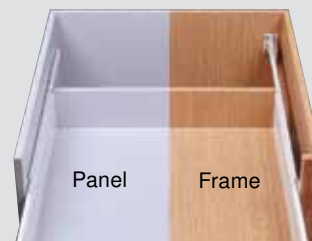
General specifications

Cabinet types and capacity

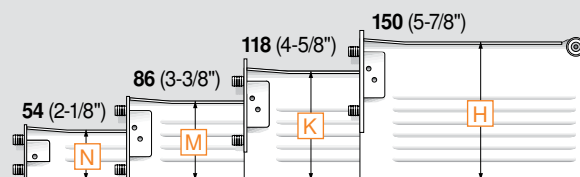
The METABOX drawer system can be installed in either panel or face frame constructed cabinets with optional rear mounting sockets.

METABOX drawers have a static load capacity of 100 lb and a dynamic capacity of 75 lb and are tested to perform 100,000 open/close cycles without failure.

METABOX drawers install in all cabinets

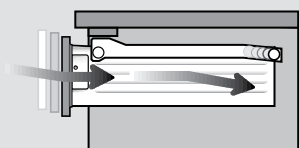


Available heights

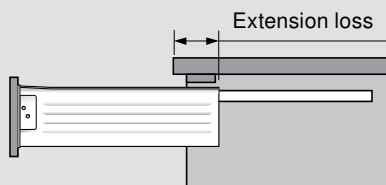


METABOX is available in white in four drawer heights, offering a multitude of design options.

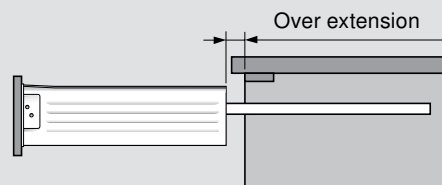
Opening and closing information



BLUMATIC self-closing action results from the angled drawer and cabinet profiles.



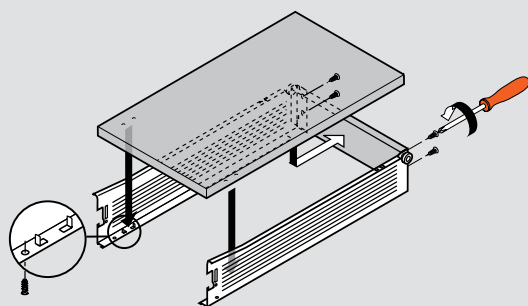
320 series 3/4 extension drawers have an extension loss when fully opened.



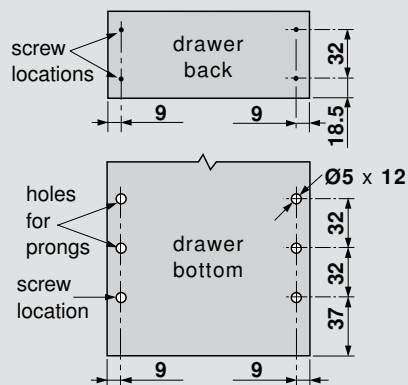
330 series full extension drawers have an over extension of **18 (3/4")** when fully opened.

Drawer back and bottom preparation

METABOX "C15" version



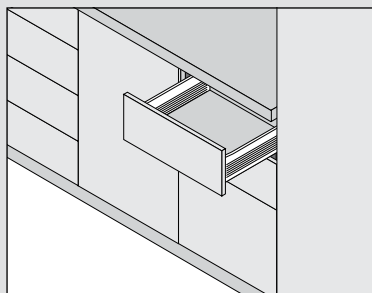
METABOX "C15" drawers can be assembled with the aid of the Universal boring template (page 37).



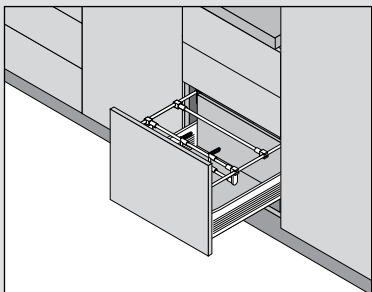
Boring for C15 drawer back and bottom
(for **13 (1/2")** material, holes are **10 (3/8")** deep)

Drawer configurations

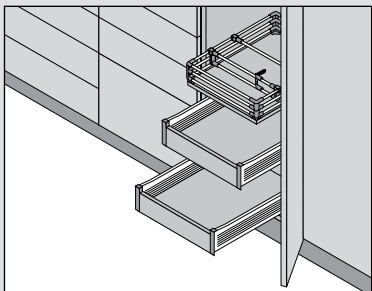
Standard drawer



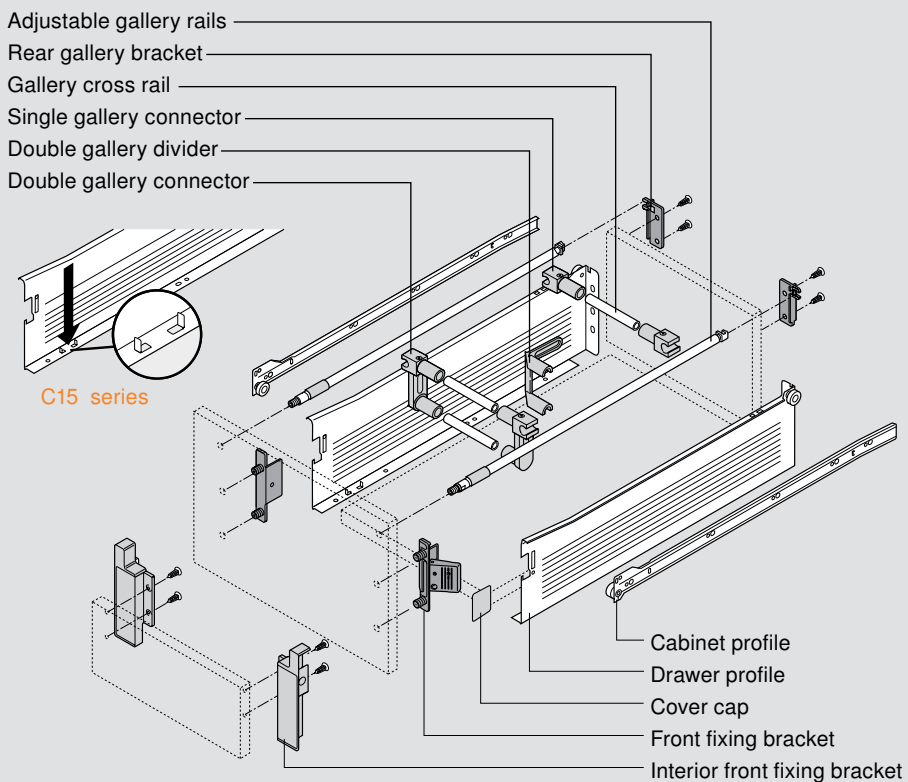
Standard drawer with gallery organization



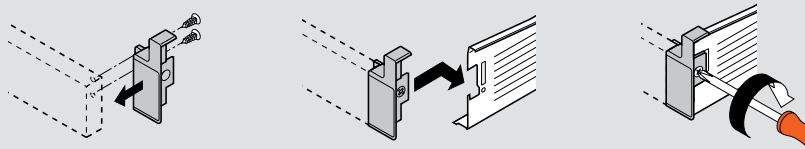
Pull-out surround shelf (top) Interior roll-out trays (bottom)



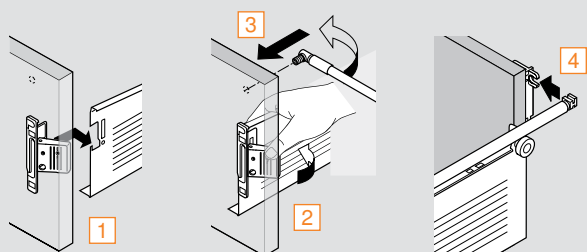
Components and accessories



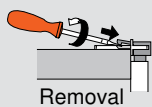
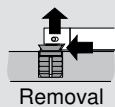
Interior drawer front assembly



Drawer front assembly

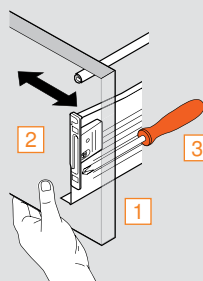


- 1 Insert front bracket
- 2 Snap closed
- 3 Insert gallery
- 4 Snap gallery back



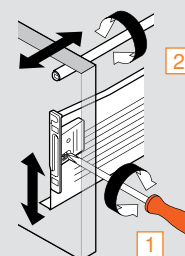
Drawer front adjustment

Side adjustment



- 1 Loosen fixing screws
- 2 Adjust front
- 3 Tighten screws

Height and tilt adjustment

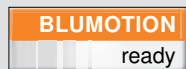
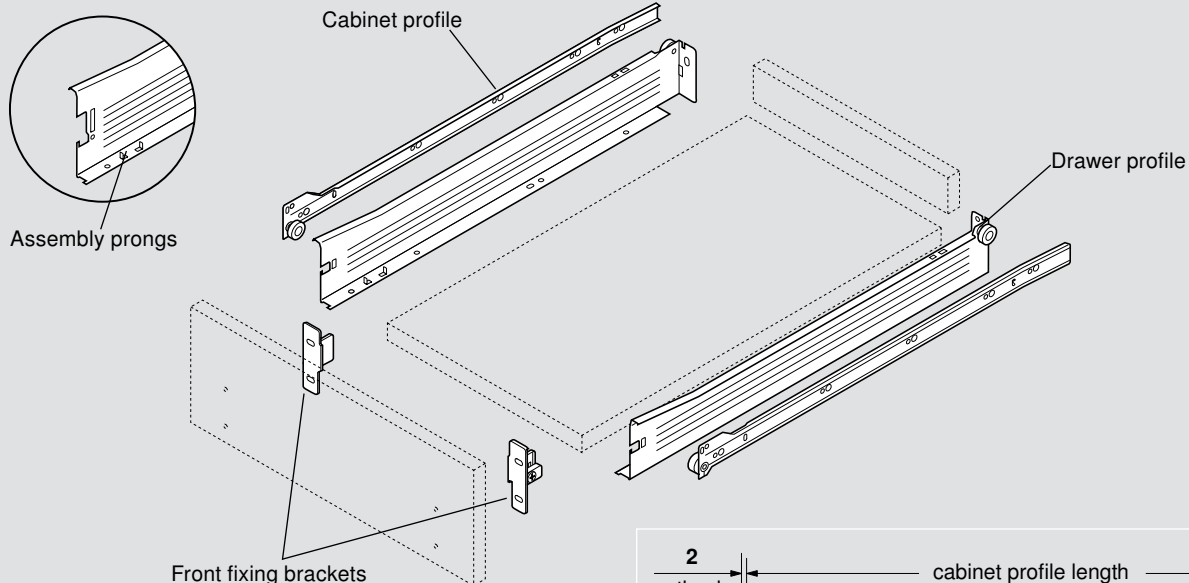


- 1 Adjust height cam
- 2 Turn rail to adjust tilt

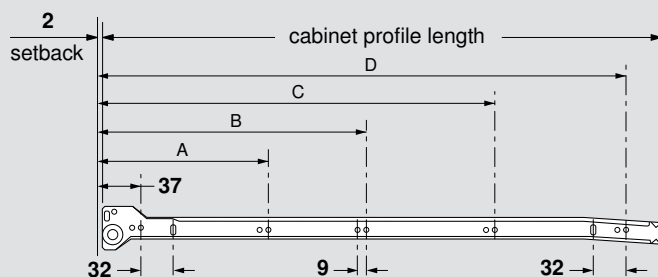
320N drawer series

Components

C15 series



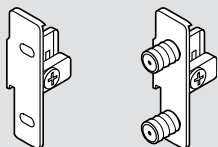
see page 30



Runner sets (includes cabinet and drawer profiles)

C15 series white	Nominal Length	Min. inside cabinet depth	Nominal length	System screw mounting hole positions			
				A	B	C	D
320N5500C15	22"	557 (21-7/8")	550 (21-5/8")	165	261	389	517
320N5000C15	20"	507 (19-15/16")	500 (19-11/16")	165	261	389	453
320N4500C15	18"	457 (17-15/16")	450 (17-11/16")	165	261	389	—
320N4000C15	16"	407 (16")	400 (15-3/4")	165	261	357	—
320N3500C15	14"	357 (14")	350 (13-3/4")	165	261	325	—

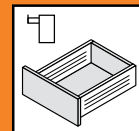
Standard front fixing bracket



Nickel-plated steel

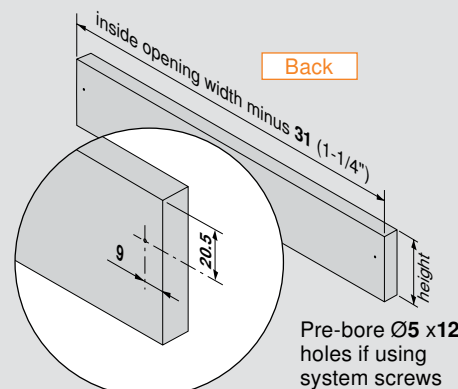
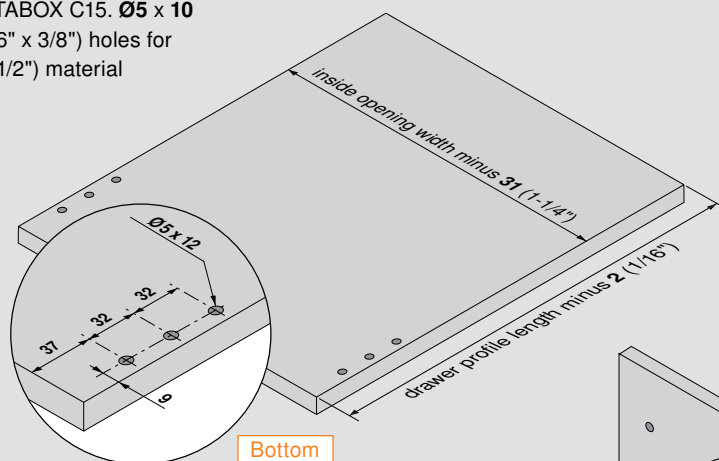
Part no.

	Right	ZSF.1510.04
	Left	ZSF.1510.05
	Right	ZSF.1610.04
	Left	ZSF.1610.05



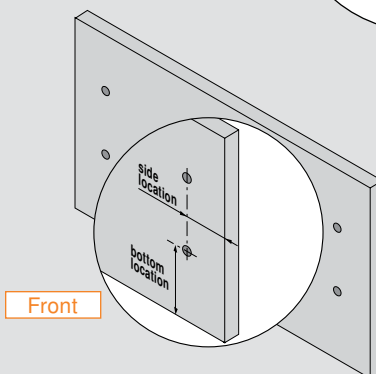
Specifications

Pre-bore holes for use with
METABOX C15. $\varnothing 5 \times 10$
(3/16" x 3/8") holes for
13 (1/2") material



Pre-bore $\varnothing 5 \times 12$
holes if using
system screws

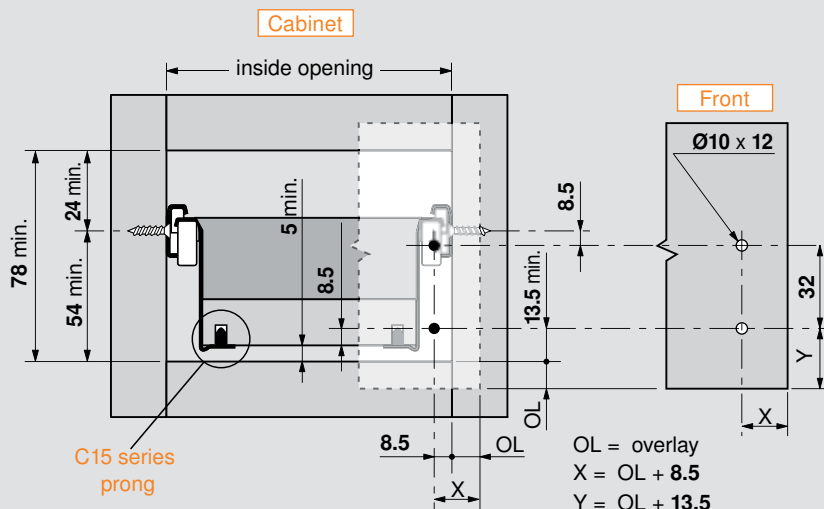
Nominal length	Bottom length
550 (21-5/8")	548 (21-9/16")
500 (19-11/16")	498 (19-5/8")
450 (17-11/16")	448 (17-5/8")
400 (15-3/4")	398 (15-11/16")
350 (13-3/4")	348 (13-11/16")
270 (10-5/8")	268 (10-9/16")



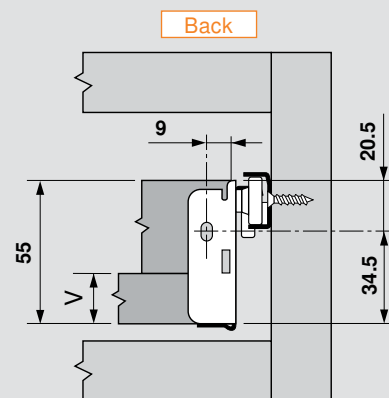
Drawer bottom thickness	Back height
13 (1/2")	42 (1-5/8")
16 (5/8")	39 (1-9/16")
19 (3/4")	36 (1-7/16")

Bore $\varnothing 10 \times 12$ ($\varnothing 3/8" \times 1/2"$) hole for front fixing brackets with dowels
(Determine locations from specifications below, or see page 42 for pre-determined overlays)

Installation specifications



OL = overlay
X = OL + 8.5
Y = OL + 13.5



V = variable bottom thickness minimum
13 (1/2") material

Rear bracket for frame cabinet applications
For gallery rail and BOXSIDE specifications
For interior drawer specifications

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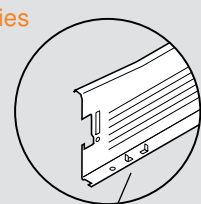
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320M drawer series

Components

C15 series



Assembly prongs

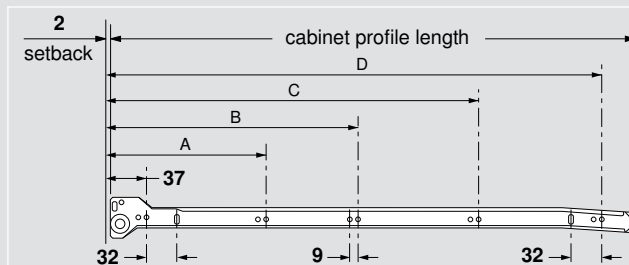
Cabinet profile

Drawer profile

Front fixing brackets



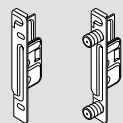
see page 30



Runner sets (includes cabinet and drawer profiles)

C15 series white	Nominal Length	Min. inside cabinet depth	Nominal length	System screw mounting hole positions			
				A	B	C	D
320M5500C15	22"	557 (21-7/8")	550 (21-5/8")	165	261	389	517
320M5000C15	20"	507 (19-15/16")	500 (19-11/16")	165	261	389	453
320M4500C15	18"	457 (17-15/16")	450 (17-11/16")	165	261	389	—
320M4000C15	16"	407 (16")	400 (15-3/4")	165	261	357	—
320M3500C15	14"	357 (14")	350 (13-3/4")	165	261	325	—
320M2700C15	11"	277 (10-7/8")	270 (10-5/8")	229	—	—	—

Standard front fixing bracket



Nickel-plated steel

Part no.



Screw-on

Right

ZSF.1700 R

Left

ZSF.1700 L



Press-in

Right

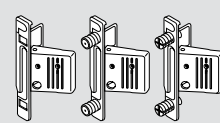
ZSF.1800 R

Left

ZSF.1800 L

CLIP front fixing bracket

Nickel-plated steel



Screw-on

Right

ZSF.1200 R

Left

ZSF.1200 L



Press-in

Right

ZSF.1300 R

Left

ZSF.1300 L

EXPANDO

Right

ZSF.130E R

Left

ZSF.130E L

Standard cover cap

Nylon white



NOTE: Blum logo cover caps available

ZAA.3500

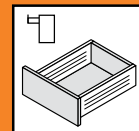
CLIP cover cap

Nylon white



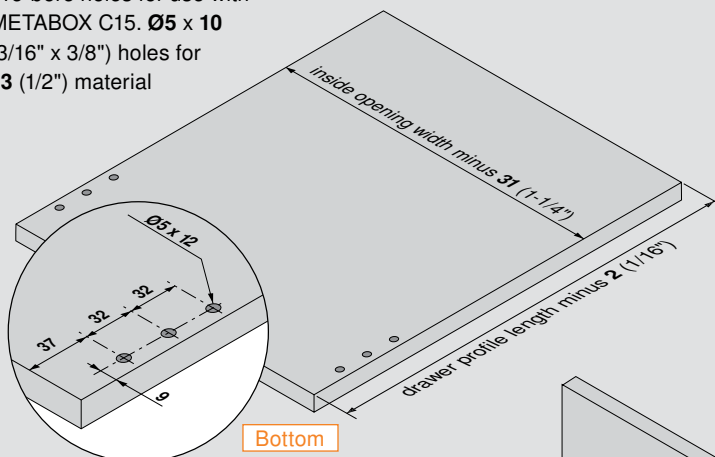
NOTE: Blum logo cover caps available

ZAA.3700



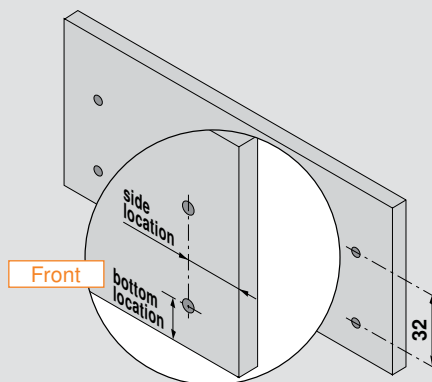
Specifications

Pre-bore holes for use with
METABOX C15. $\varnothing 5 \times 10$
(3/16" x 3/8") holes for
13 (1/2") material

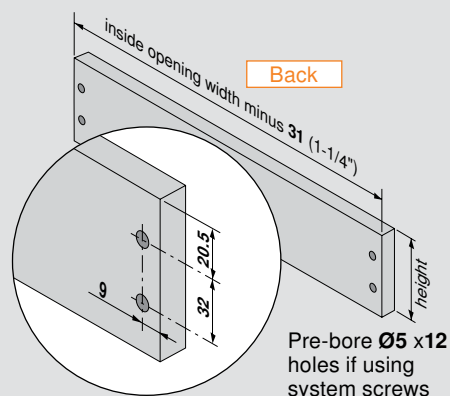


Bottom

Nominal length	Bottom length
550 (21-5/8")	548 (21-9/16")
500 (19-11/16")	498 (19-5/8")
450 (17-11/16")	448 (17-5/8")
400 (15-3/4")	398 (15-11/16")
350 (13-3/4")	348 (13-11/16")
270 (10-5/8")	268 (10-9/16")



Front



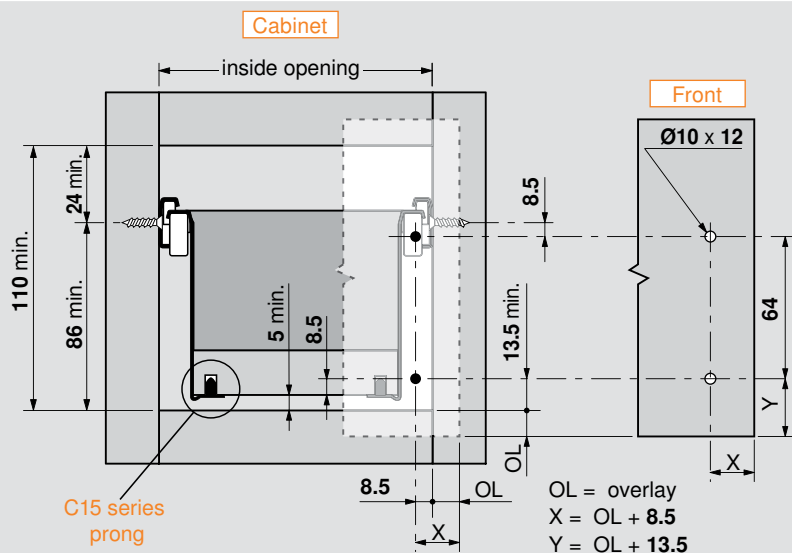
Back

Pre-bore $\varnothing 5 \times 12$
holes if using
system screws

Material thickness	Back height
13 (1/2")	74 (2-15/16")
16 (5/8")	71 (2-13/16")
19 (3/4")	68 (2-11/16")

Bore $\varnothing 10 \times 12$ ($\varnothing 3/8" \times 1/2"$) hole for front fixing brackets with dowels
(Determine locations from specifications below, or see page 42 for pre-determined overlays)

Installation specifications

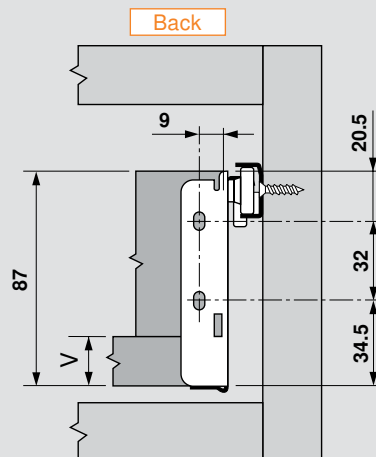


Cabinet

Front

C15 series
prong

OL = overlay
X = OL + 8.5
Y = OL + 13.5



Back

V = variable bottom thickness minimum

Rear bracket for frame cabinet applications
For gallery rail and BOXSIDE specifications
For interior drawer specifications

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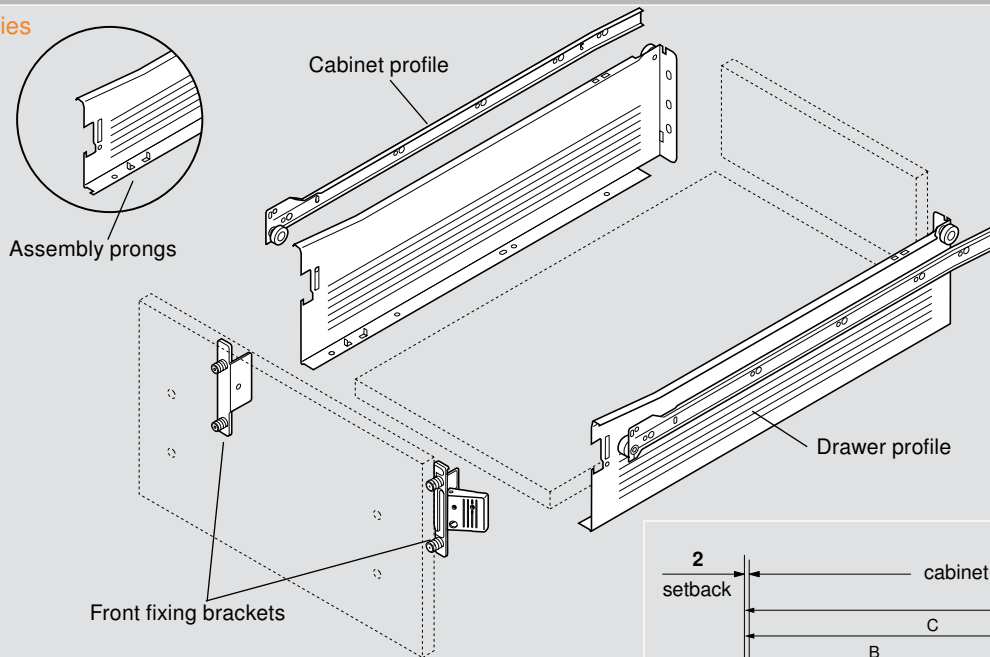
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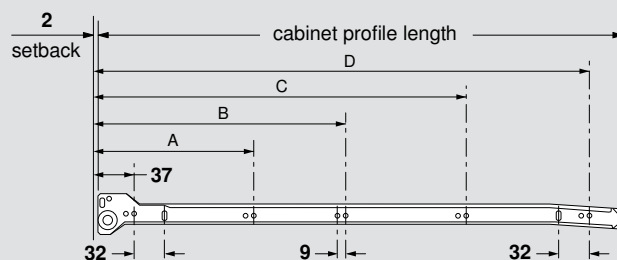
320K drawer series

Components

C15 series



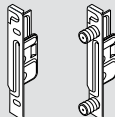
see page 30



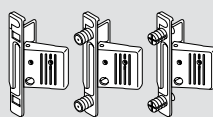
Runner sets (includes cabinet and drawer profiles)

C15 series white	Nominal Length	Min. inside cabinet depth	Nominal length	System screw mounting hole positions			
				A	B	C	D
320K5500C15	22"	557 (21-7/8")	550 (21-5/8")	165	261	389	517
320K5000C15	20"	507 (19-15/16")	500 (19-11/16")	165	261	389	453
320K4500C15	18"	457 (17-15/16")	450 (17-11/16")	165	261	389	—
320K4000C15	16"	407 (16")	400 (15-3/4")	165	261	357	—
320K3500C15	14"	357 (14")	350 (13-3/4")	165	261	—	—

Standard front fixing bracket

	Nickel-plated steel		Part no.
		Right	
		Left	
		Right	
		Left	

CLIP front fixing bracket

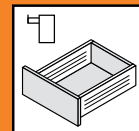
	Nickel-plated steel				Right	ZSF.1200 R
					Left	ZSF.1200 L
		Right			Right	ZSF.1300 R
		Left			Left	ZSF.1300 L

Standard cover cap

Nylon white		NOTE: Blum logo cover caps available
		ZAA.3500

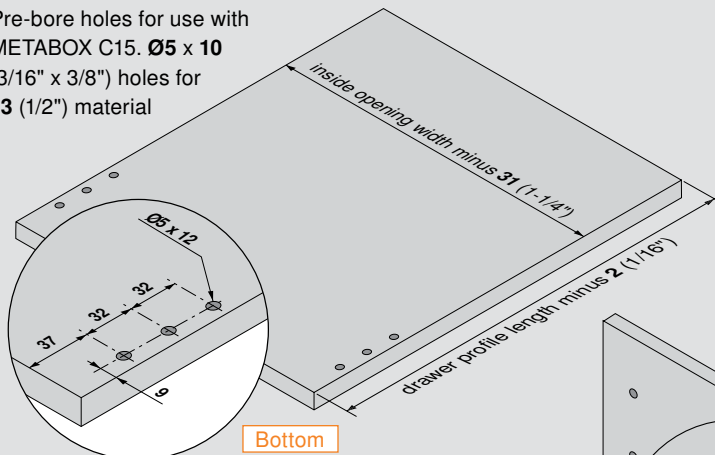
CLIP cover cap

Nylon white		NOTE: Blum logo cover caps available
		ZAA.3700



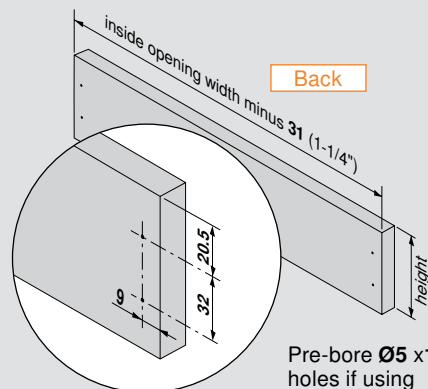
Specifications

Pre-bore holes for use with
METABOX C15. $\varnothing 5 \times 10$
(3/16" x 3/8") holes for
13 (1/2") material



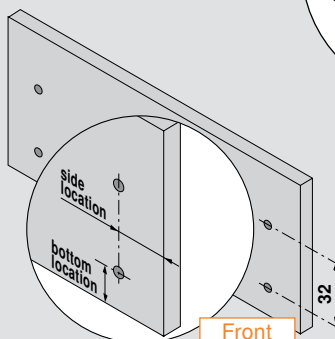
Bottom

Nominal length	Bottom length
550 (21-5/8")	548 (21-9/16")
500 (19-11/16")	498 (19-5/8")
450 (17-11/16")	448 (17-5/8")
400 (15-3/4")	398 (15-11/16")
350 (13-3/4")	348 (13-11/16")



Pre-bore $\varnothing 5 \times 12$
holes if using
system screws

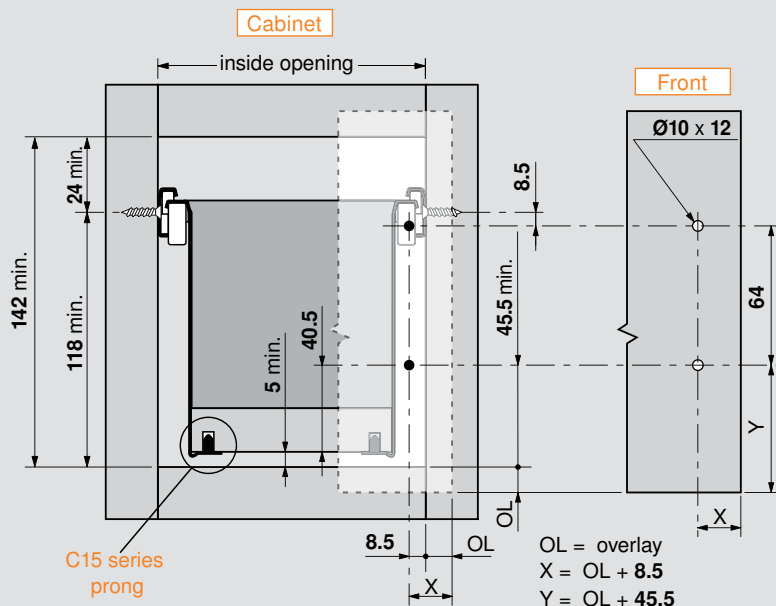
Material thickness	Back height
13 (1/2")	106 (4-3/16")
16 (5/8")	103 (4-1/16")
19 (3/4")	100 (3-15/16")



Front

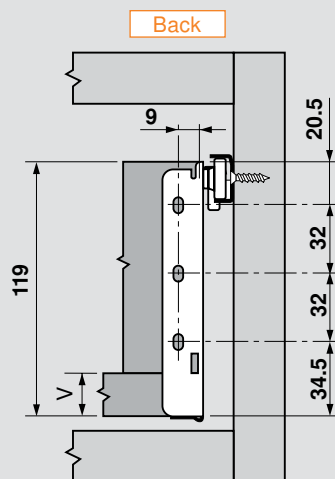
Bore $\varnothing 10 \times 12$ ($\varnothing 3/8" \times 1/2"$) hole for front fixing brackets with dowels
(Determine locations from specifications below, or see page 42 for pre-determined overlays)

Installation specifications



C15 series
prong

OL = overlay
X = OL + 8.5
Y = OL + 45.5



V = variable bottom thickness minimum

Rear bracket for frame cabinet applications

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For gallery rail and BOXSIDE specifications

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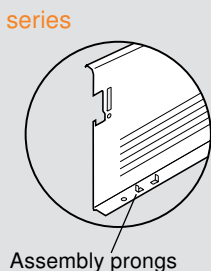
For interior drawer specifications

page 24

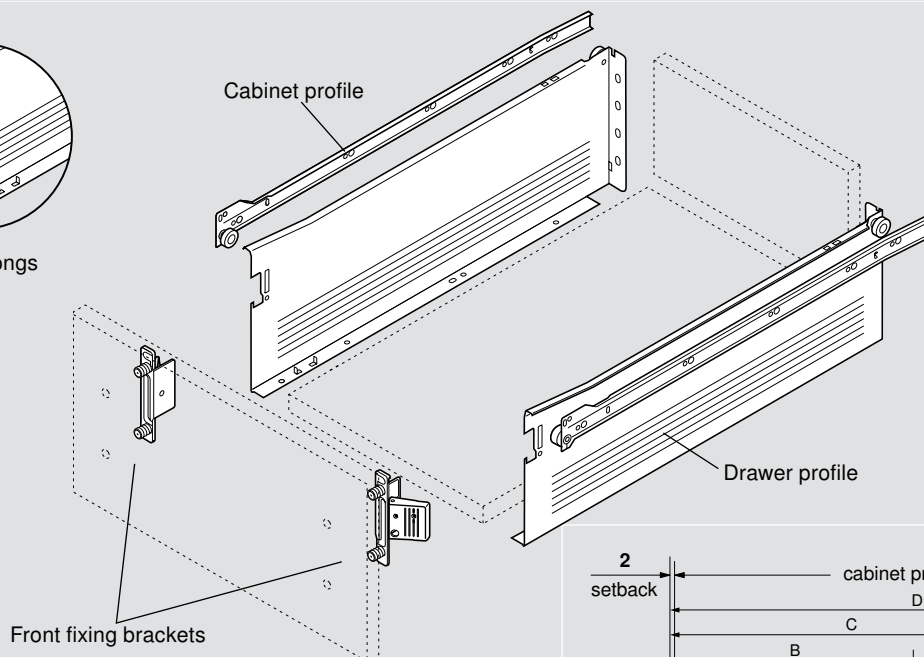
320H drawer series

Components

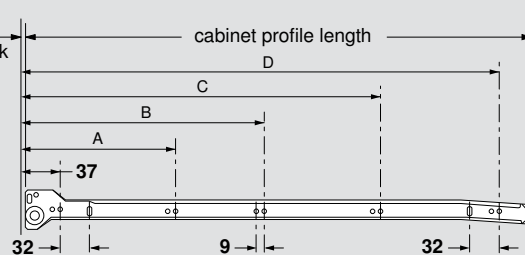
C15 series



Assembly prongs



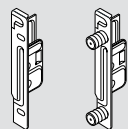
see page 30



Runner sets (includes cabinet and drawer profiles)

C15 series white	Nominal Length	Min. inside cabinet depth	Nominal length	System screw mounting hole positions			
				A	B	C	D
320H5500C15	22"	557 (21-7/8")	550 (21-5/8")	165	261	389	517
320H5000C15	20"	507 (19-15/16")	500 (19-11/16")	165	261	389	453
320H4500C15	18"	457 (17-15/16")	450 (17-11/16")	165	261	389	—
320H4000C15	16"	407 (16")	400 (15-3/4")	165	261	357	—
320H3500C15	14"	357 (14")	350 (13-3/4")	165	261	325	—

Standard front fixing bracket



Nickel-plated steel

Part no.



Screw-on

Right

ZSF.1700 R

Left

ZSF.1700 L



Press-in

Right

ZSF.1800 R

Left

ZSF.1800 L

CLIP front fixing bracket

Nickel-plated steel



Screw-on

Right

ZSF.1200 R

Left

ZSF.1200 L



Press-in

Right

ZSF.1300 R

Left

ZSF.1300 L



EXPANDO

Right

ZSF.130E R

Left

ZSF.130E L

Standard cover cap

Nylon white



NOTE: Blum logo cover caps available

ZAA.3500

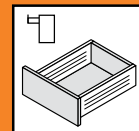
CLIP cover cap

Nylon white



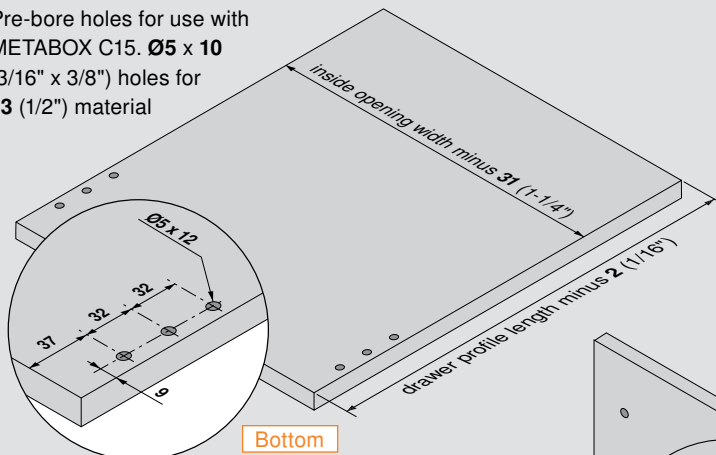
NOTE: Blum logo cover caps available

ZAA.3700



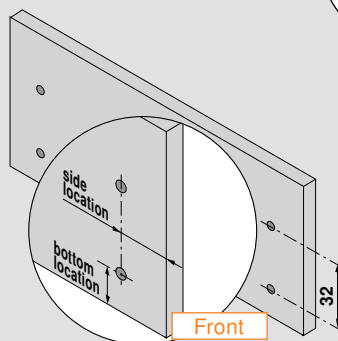
Specifications

Pre-bore holes for use with
METABOX C15. Ø5 x 10
(3/16" x 3/8") holes for
13 (1/2") material

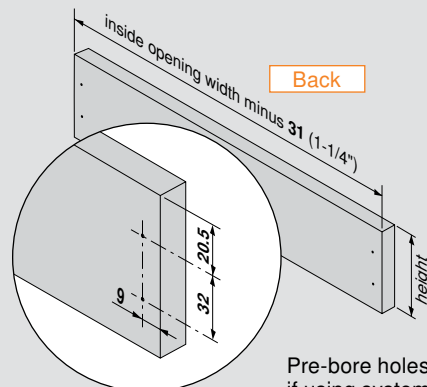


Bottom

Nominal length	Bottom length
550 (21-5/8")	548 (21-9/16")
500 (19-11/16")	498 (19-5/8")
450 (17-11/16")	448 (17-5/8")
400 (15-3/4")	398 (15-11/16")
350 (13-3/4")	348 (13-11/16")



Front



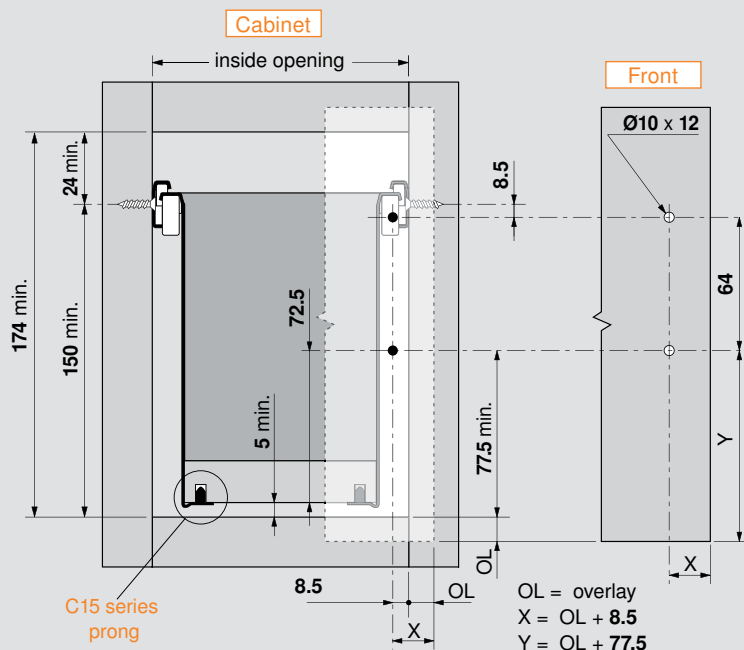
Back

Pre-bore holes
if using system
screws

Material thickness	Back height
13 (1/2")	138 (5-7/16")
16 (5/8")	135 (5-5/16")
19 (3/4")	132 (5-3/16")

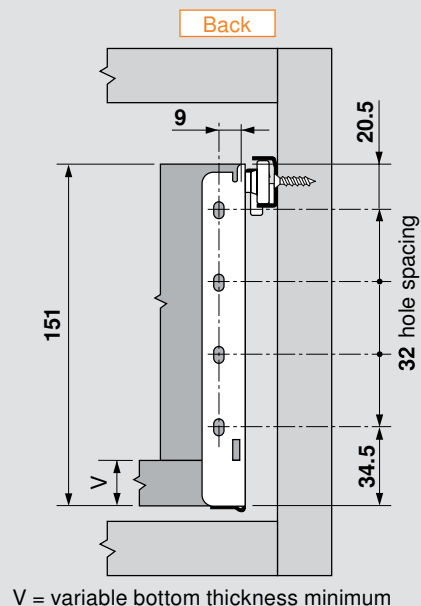
Bore Ø10 x 12 (Ø3/8" x 1/2") hole for front fixing brackets with dowels
(Determine locations from specifications below, or see page 42 for pre-determined overlays)

Installation specifications



C15 series
prong

OL = overlay
X = OL + 8.5
Y = OL + 77.5



V = variable bottom thickness minimum

Rear bracket for frame cabinet applications
For gallery rail and BOXSIDE specifications
For interior drawer specifications

page 36

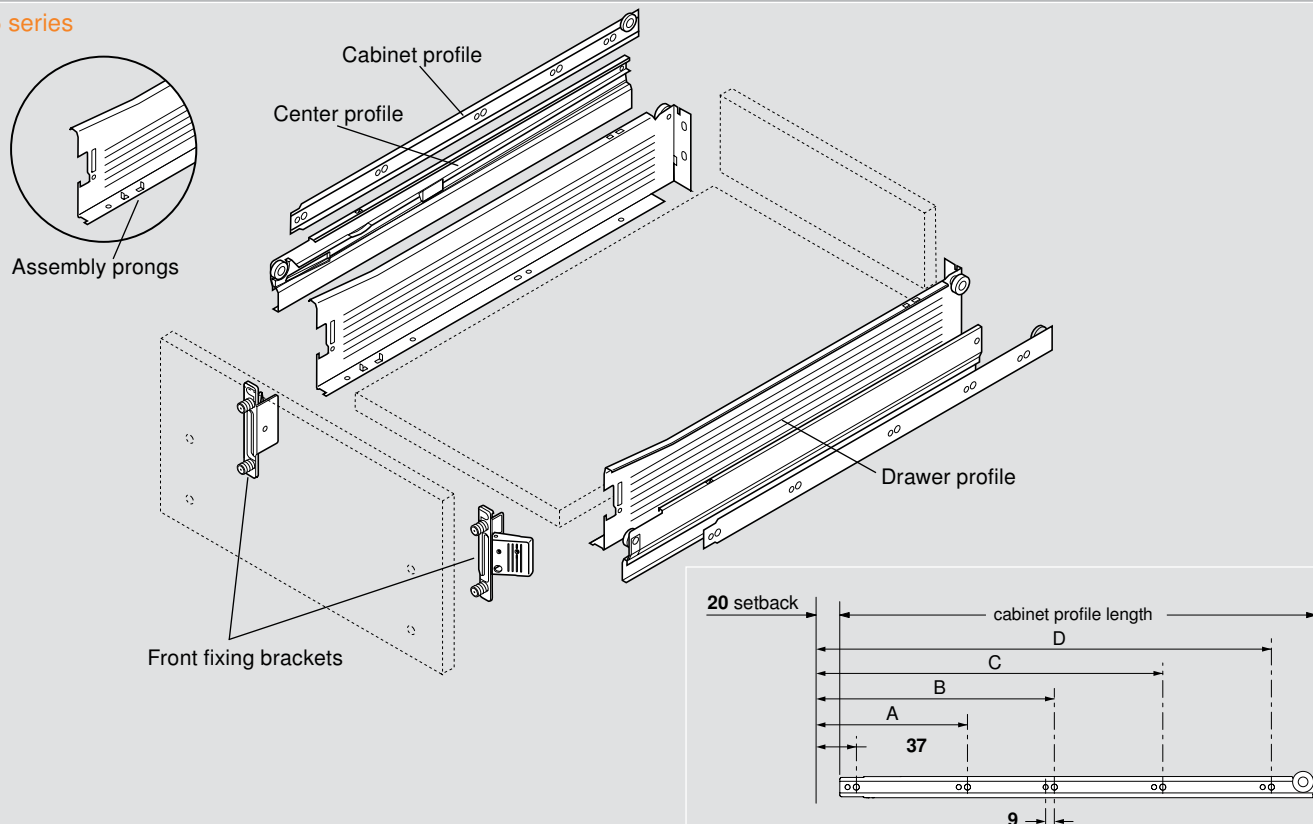
page 20

page 24

330M drawer series

Components

C15 series



Runner sets (includes cabinet and drawer profiles)

C15 series white	Nominal Length	Min. inside cabinet depth	Nominal length	System screw mounting hole positions			
				A	B	C	D
330M550PC15	22"	565 (22-1/4")	550 (21-5/8")	165	261	389	517
330M500PC15	20"	515 (20-1/4")	500 (19-11/16")	165	261	389	453
330M450PC15	18"	456 (18-5/16")	450 (17-11/16")	165	261	389	—
330M400PC15	16"	415 (16-5/16")	400 (15-3/4")	165	261	357	—

Standard front fixing bracket

	Nickel-plated steel		
	Part no.		
		Right	ZSF.1700 R
		Left	ZSF.1700 L
		Right	ZSF.1800 R
		Left	ZSF.1800 L

CLIP front fixing bracket

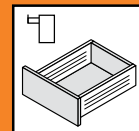
	Nickel-plated steel		
		Right	ZSF.1200 R
		Left	ZSF.1200 L
		Right	ZSF.1300 R
		Left	ZSF.1300 L
		Right	ZSF.130E R
		Left	ZSF.130E L

Standard cover cap

Nylon white		NOTE: Blum logo cover caps available
		ZAA.3500

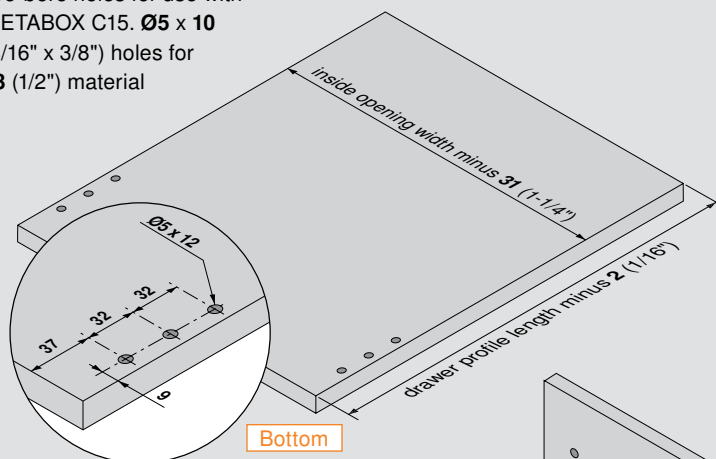
CLIP cover cap

Nylon white		NOTE: Blum logo cover caps available
		ZAA.3700



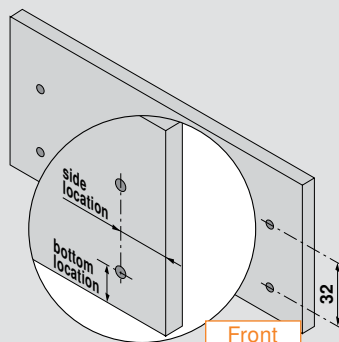
Specifications

Pre-bore holes for use with
METABOX C15. $\varnothing 5 \times 10$
(3/16" x 3/8") holes for
13 (1/2") material

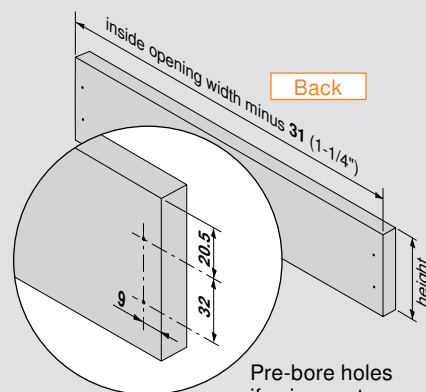


Bottom

Nominal length	Bottom length
550 (21-5/8")	548 (21-9/16")
500 (19-11/16")	498 (19-5/8")
450 (17-11/16")	448 (17-5/8")
400 (15-3/4")	398 (15-11/16")



Front



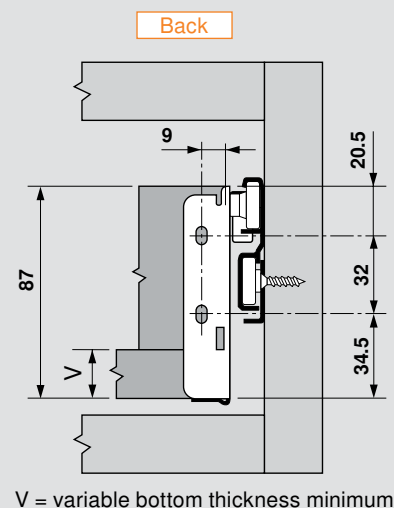
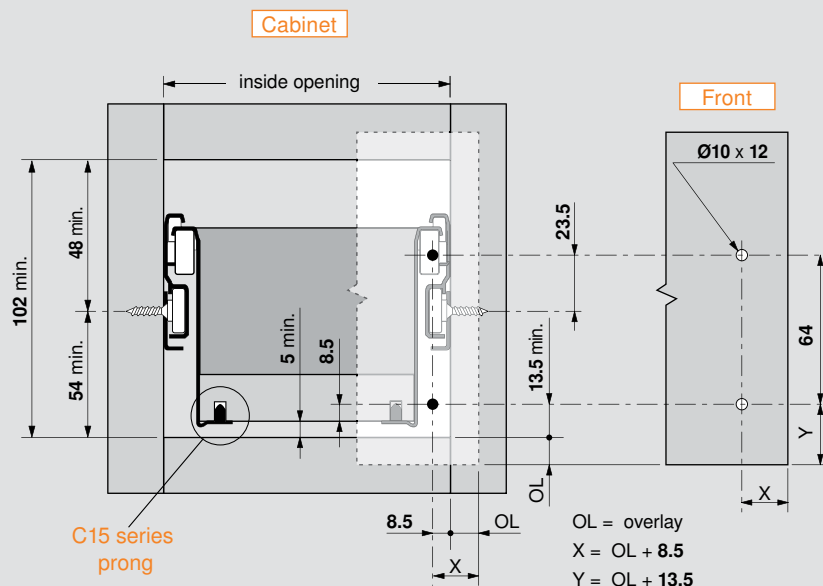
Back

Pre-bore holes
if using system
screws

Material thickness	Back height
13 (1/2")	74 (2-15/16")
16 (5/8")	71 (2-13/16")
19 (3/4")	68 (2-11/16")

Bore $\varnothing 10 \times 12$ ($\varnothing 3/8" \times 1/2"$) hole for front fixing brackets with dowels
(Determine locations from specifications below, or see page 38 for pre-determined overlays)

Installation specifications



For gallery rail and BOXSIDE specifications

page 20

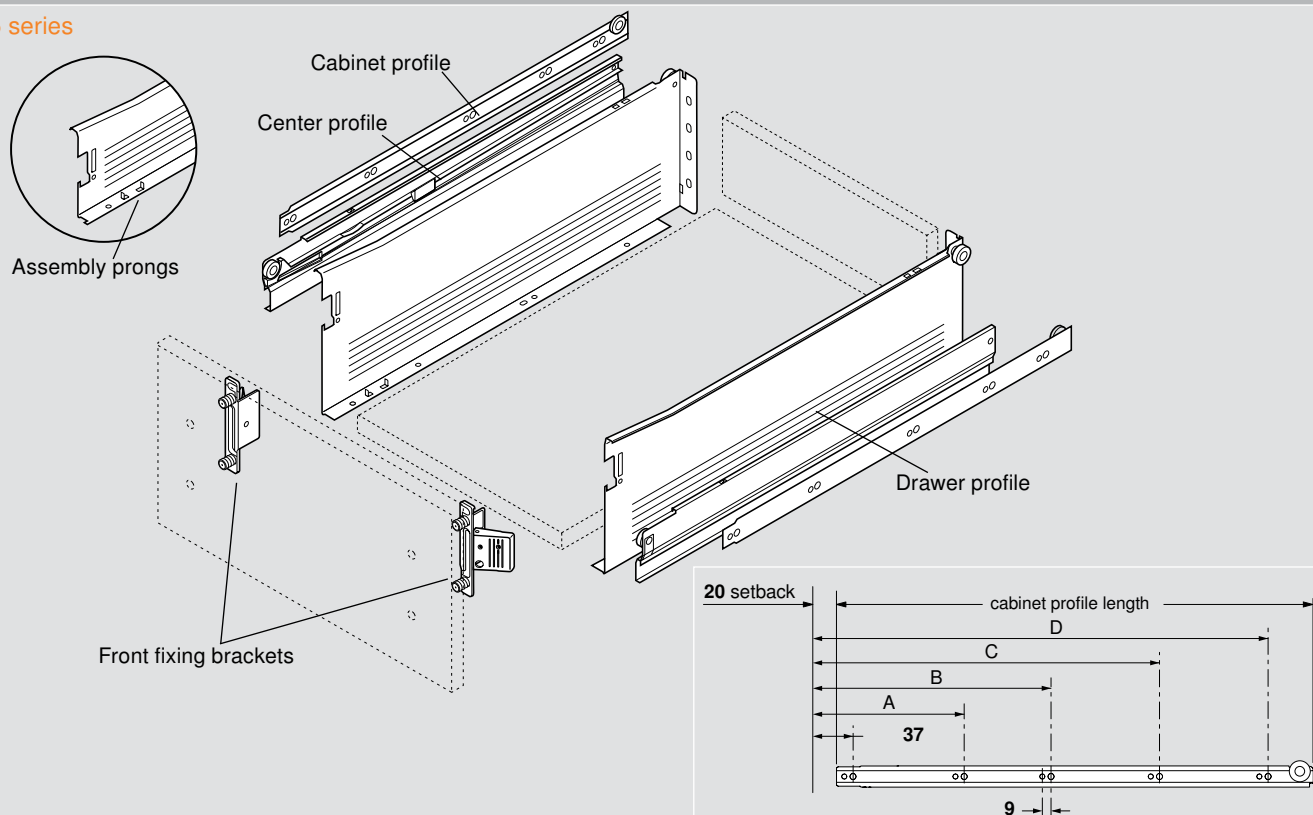
For interior drawer specifications

page 24

330H drawer series

Components

C15 series



Runner sets (includes cabinet and drawer profiles)

C15 series white	Nominal Length	Min. inside cabinet depth	Nominal length	System screw mounting hole positions			
				A	B	C	D
330H550PC15	22"	565 (22-1/4")	550 (21-5/8")	165	261	389	517
330H500PC15	20"	515 (20-1/4")	500 (19-11/16")	165	261	389	453
330H450PC15	18"	456 (18-5/16")	450 (17-11/16")	165	261	389	—
330H400PC15	16"	415 (16-5/16")	400 (15-3/4")	165	261	357	—

Standard front fixing bracket

	Nickel-plated steel		
	Part no.		
		Right	ZSF.1700 R
		Left	ZSF.1700 L
		Right	ZSF.1800 R
		Left	ZSF.1800 L

CLIP front fixing bracket

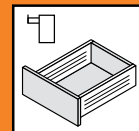
	Nickel-plated steel		
		Right	ZSF.1200 R
		Left	ZSF.1200 L
		Right	ZSF.1300 R
		Left	ZSF.1300 L
	EXPANDO	Right	ZSF.130E R
		Left	ZSF.130E L

Standard cover cap

Nylon white		NOTE: Blum logo cover caps available
		ZAA.3500

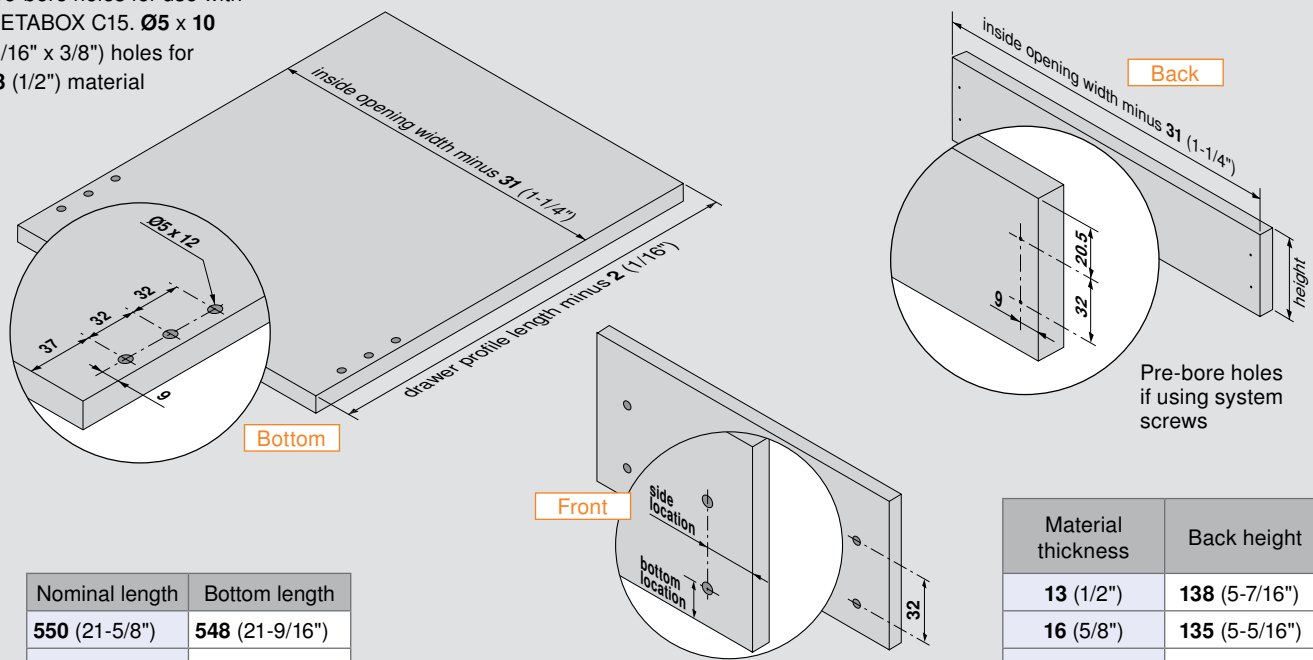
CLIP cover cap

Nylon white		NOTE: Blum logo cover caps available
		ZAA.3700



Specifications

Pre-bore holes for use with
METABOX C15. Ø5 x 10
(3/16" x 3/8") holes for
13 (1/2") material

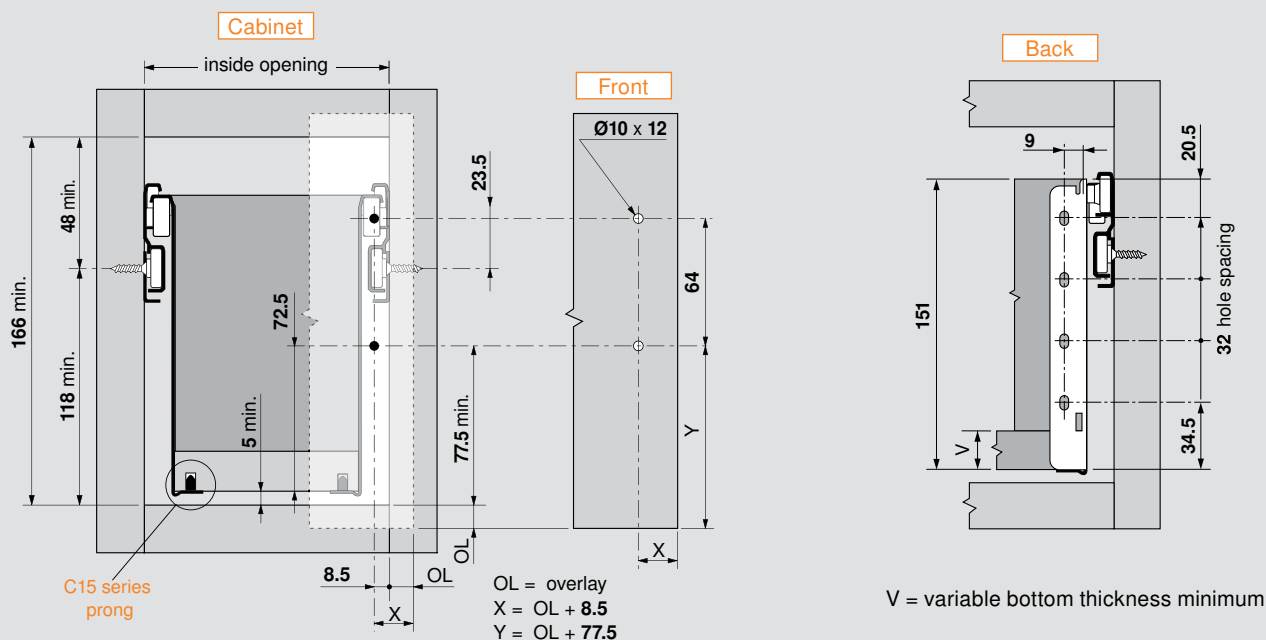


Nominal length	Bottom length
550 (21-5/8")	548 (21-9/16")
500 (19-11/16")	498 (19-5/8")
450 (17-11/16")	448 (17-5/8")
400 (15-3/4")	398 (15-11/16")

Material thickness	Back height
13 (1/2")	138 (5-7/16")
16 (5/8")	135 (5-5/16")
19 (3/4")	132 (5-3/16")

Bore Ø10 x 12 (Ø3/8" x 1/2") hole for front fixing brackets with dowels
(Determine locations from specifications below, or see page 38 for pre-determined overlays)

Installation specifications



For gallery rail and BOXSIDE specifications

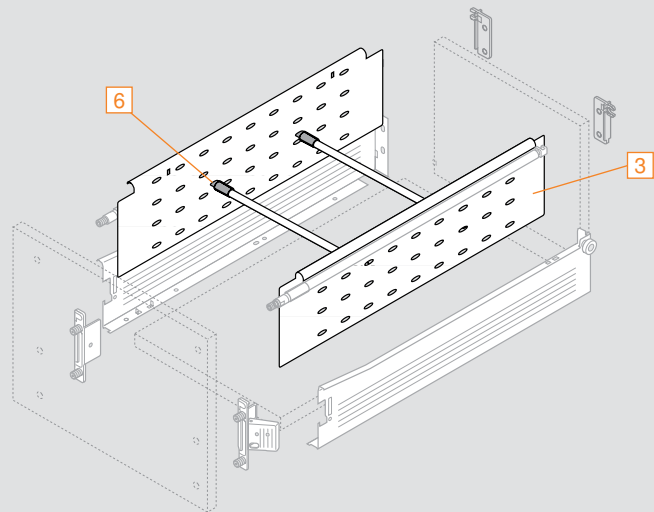
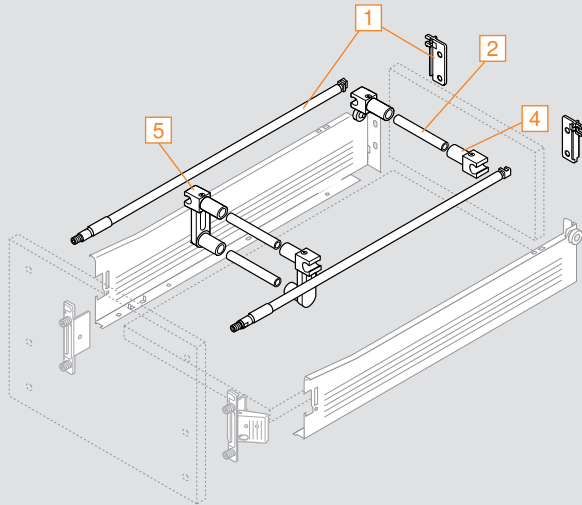
page 20

For interior drawer specifications

page 24

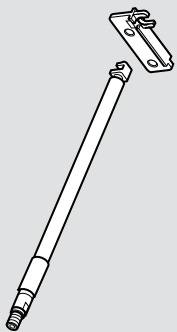
Gallery rail and BOXSIDE systems

Gallery components



INSERTA gallery set

1



Set includes:

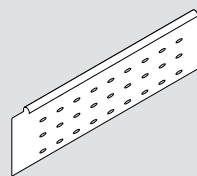
- Adjustable rails (qty 2)
- Rear fixing brackets (qty 2)
- Colors: white

Part no.

400 (16") drawer length	ZRE.371S.ID
450 (18") drawer length	ZRE.421S.ID
500 (20") drawer length	ZRE.471S.ID
550 (22") drawer length	ZRE.521S.ID

BOXSIDE

3



Height = 128 (5-1/32")

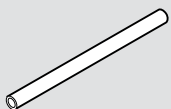
Color: white

Part no.

400 (16") drawer length	Z36H367SE01
450 (18") drawer length	Z36H417SE01
500 (20") drawer length	Z36H467SE01
550 (22") drawer length	Z36H517SE01

Gallery cross rail

2



- 1104 (44") long, cut to length
- Colors: white
- Length = inside opening width minus 60 (2-3/8")

Part no.

Gallery cross rail	ZRG.1104U
--------------------	-----------

Gallery connectors

4



Single gallery connector	Part no.
Colors: white	ZRU.00E0.01

5

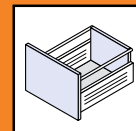


Double gallery connector	
Colors: white	ZRU.00Z0.01

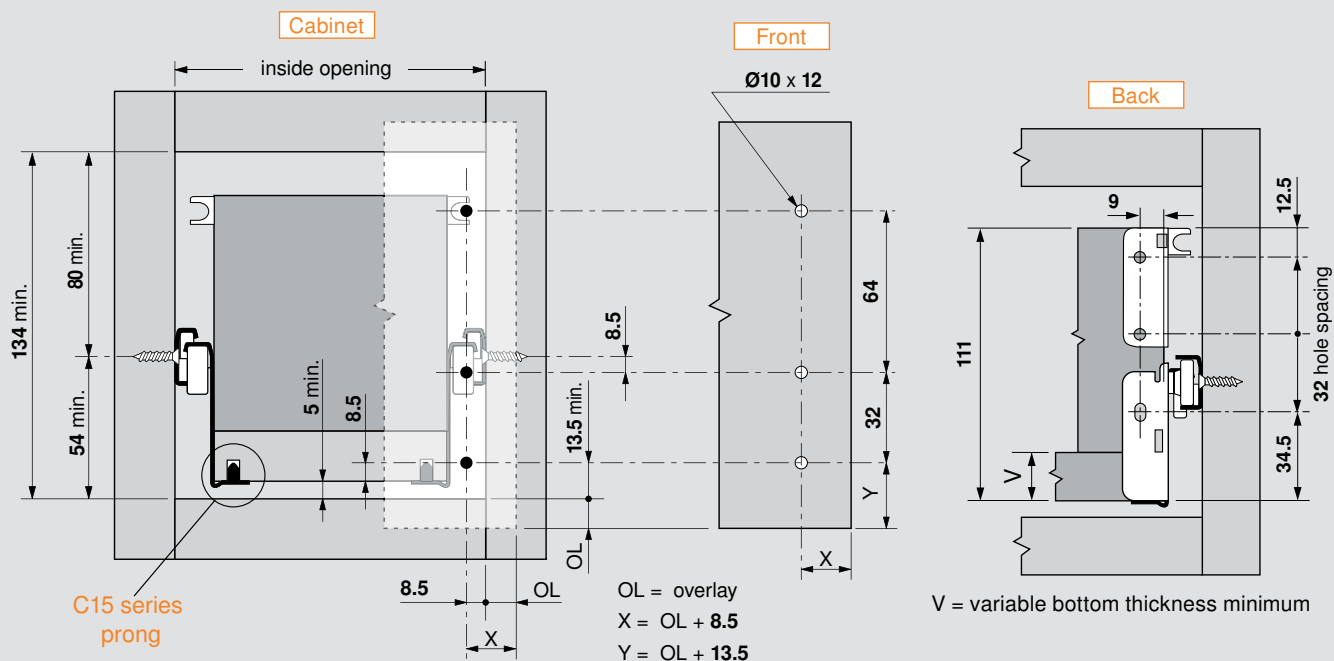
6



Spring connector	
Colors: dust gray	ZRU.10B1E

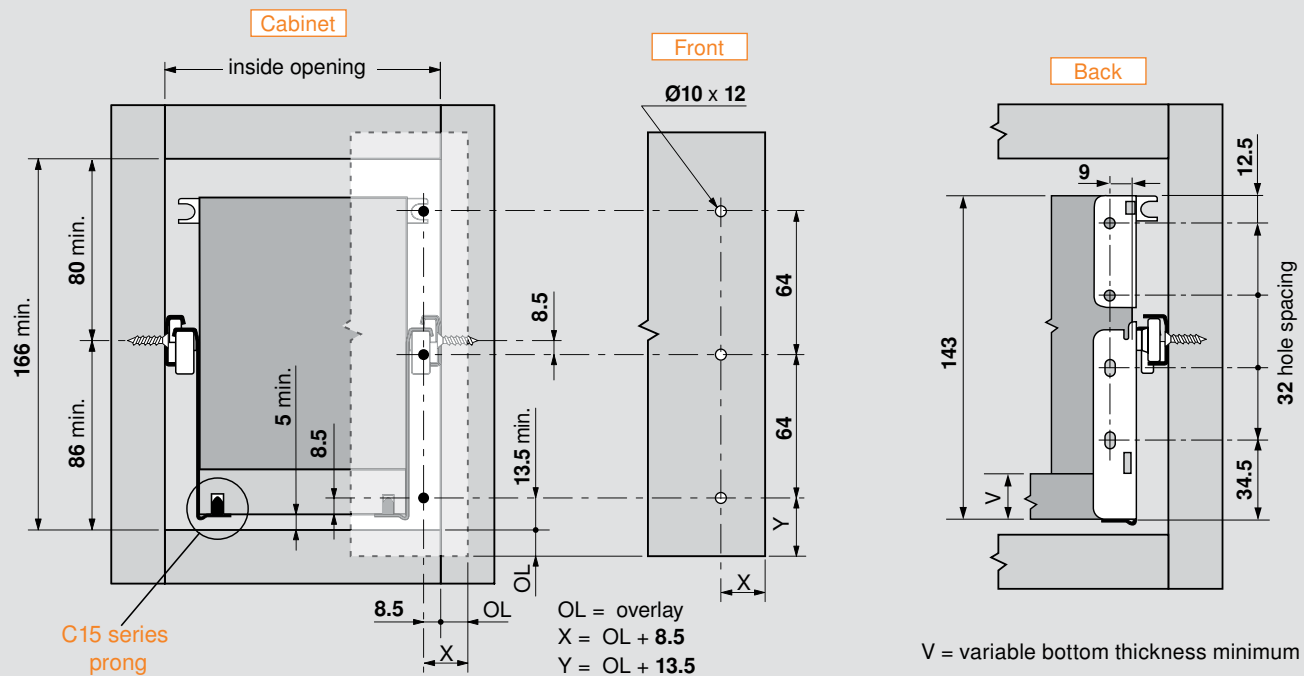


320N installation specifications



NOTE: For double gallery rail application add 64 (2-1/2") to opening and back height

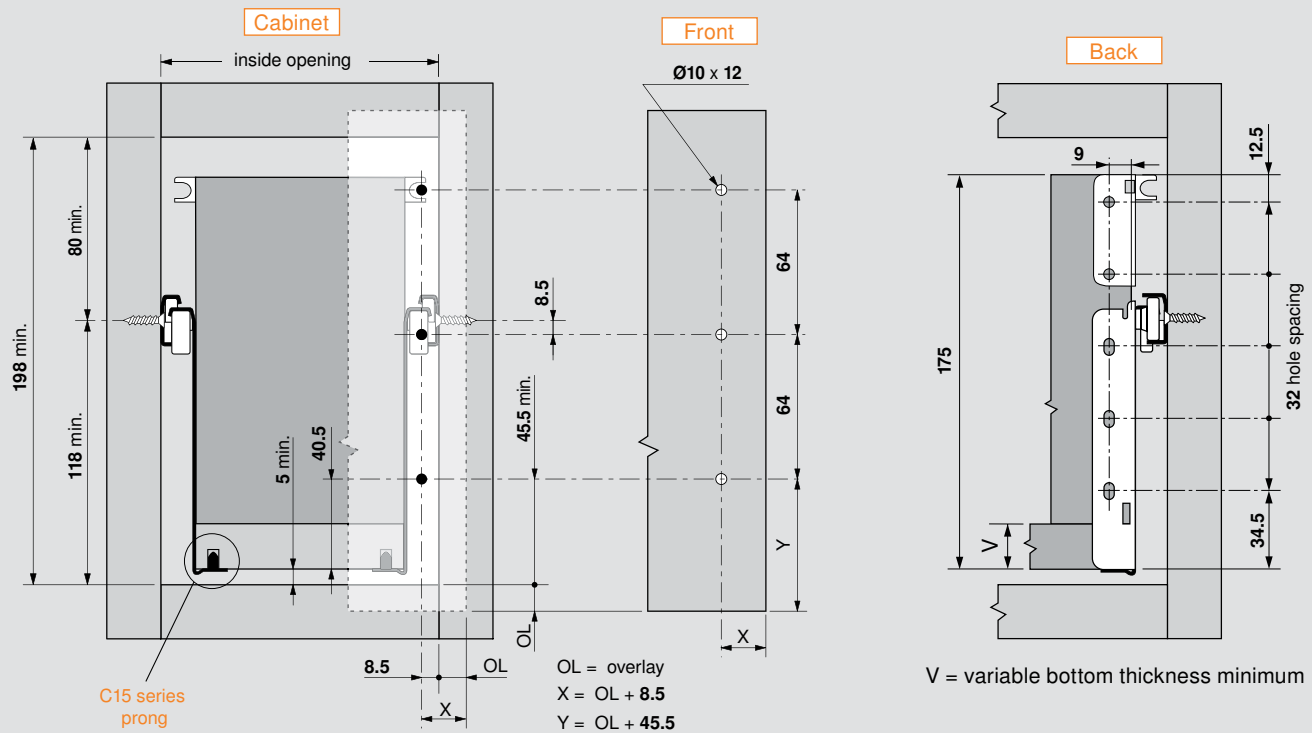
320M installation specifications



NOTE: For double gallery rail application add 64 (2-1/2") to opening and back height

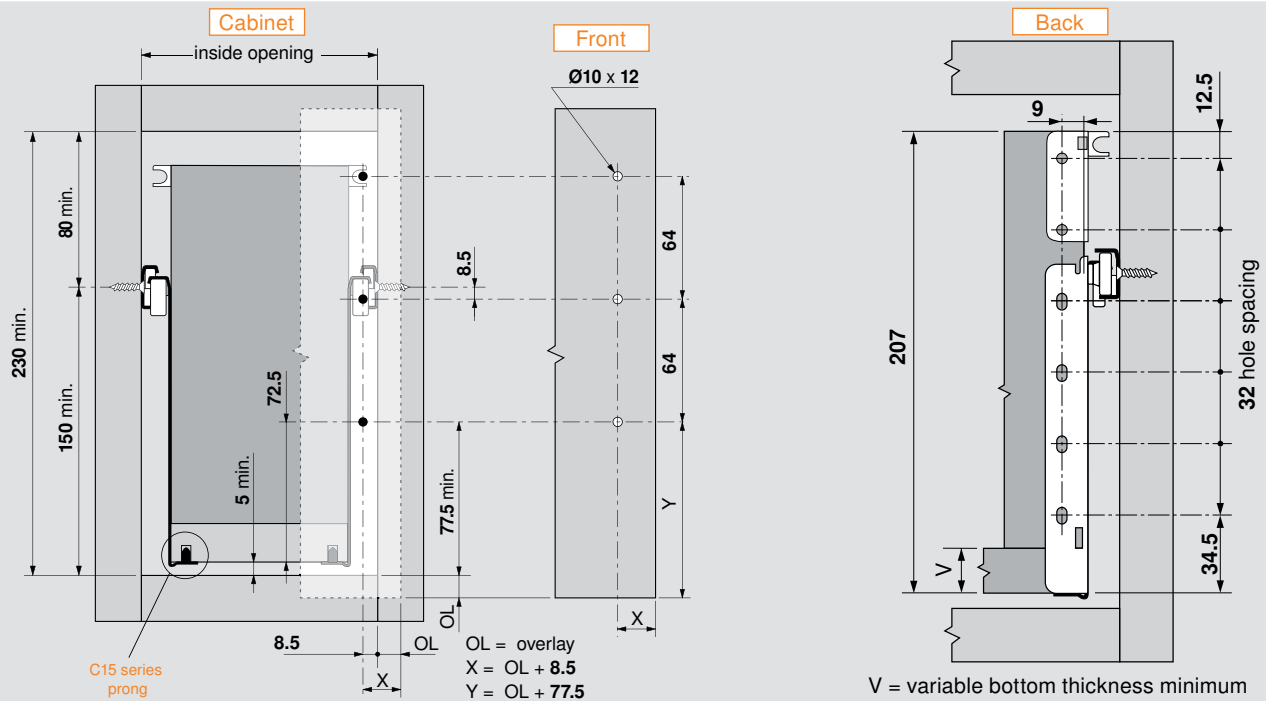
Gallery rail and BOXSIDE systems

320K installation specifications

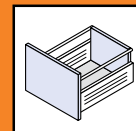


NOTE: For double gallery rail application add 64 (2-1/2") to opening and back height

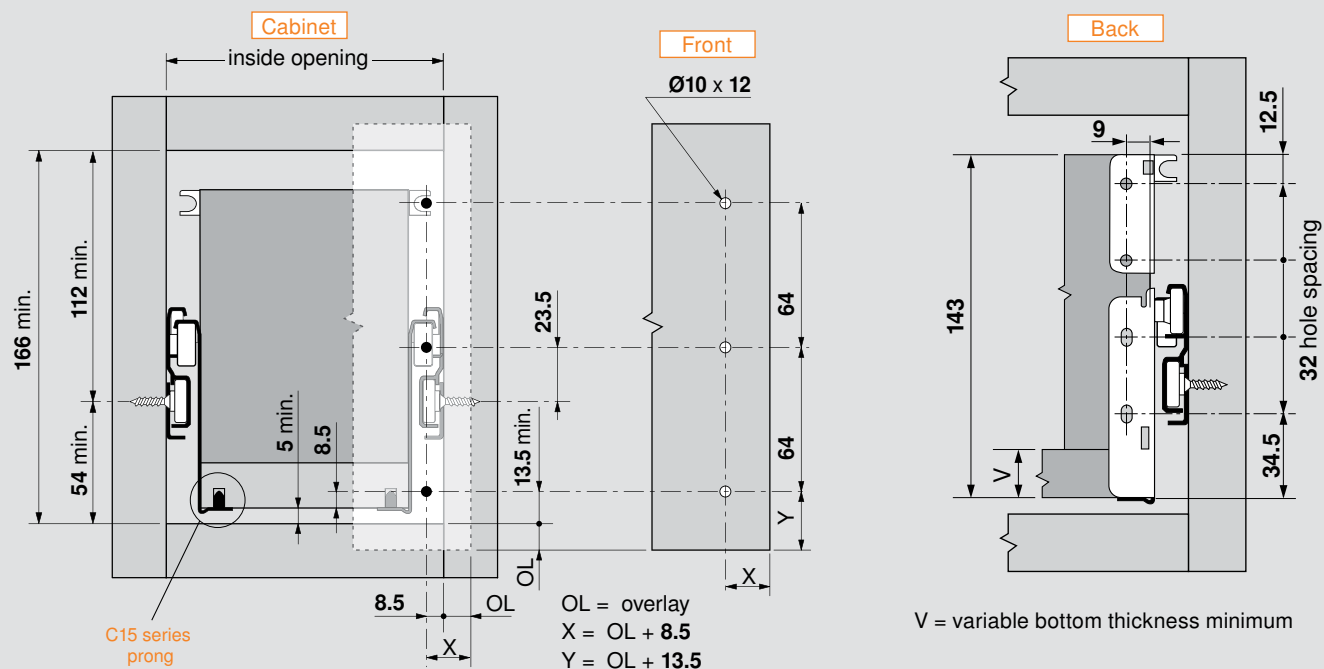
320H installation specifications



NOTE: For double gallery rail application add 64 (2-1/2") to opening and back height

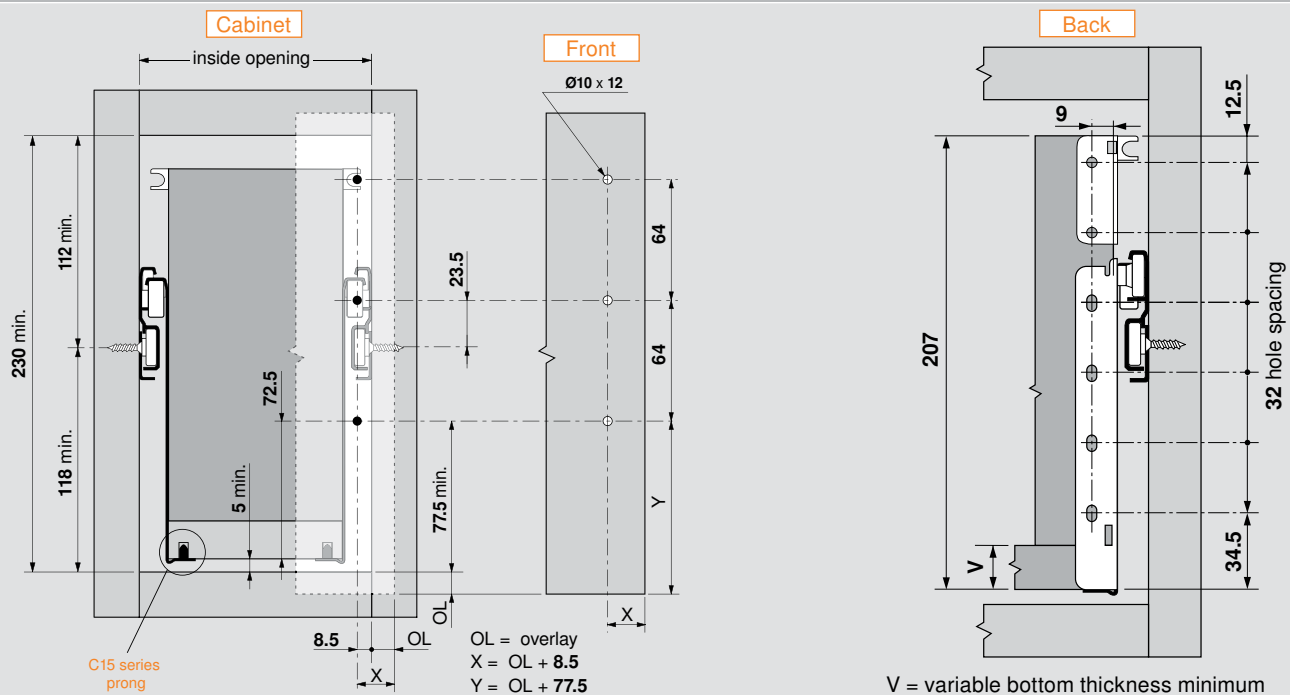


330M installation specifications



NOTE: For double gallery rail application add 64 (2-1/2") to opening and back height

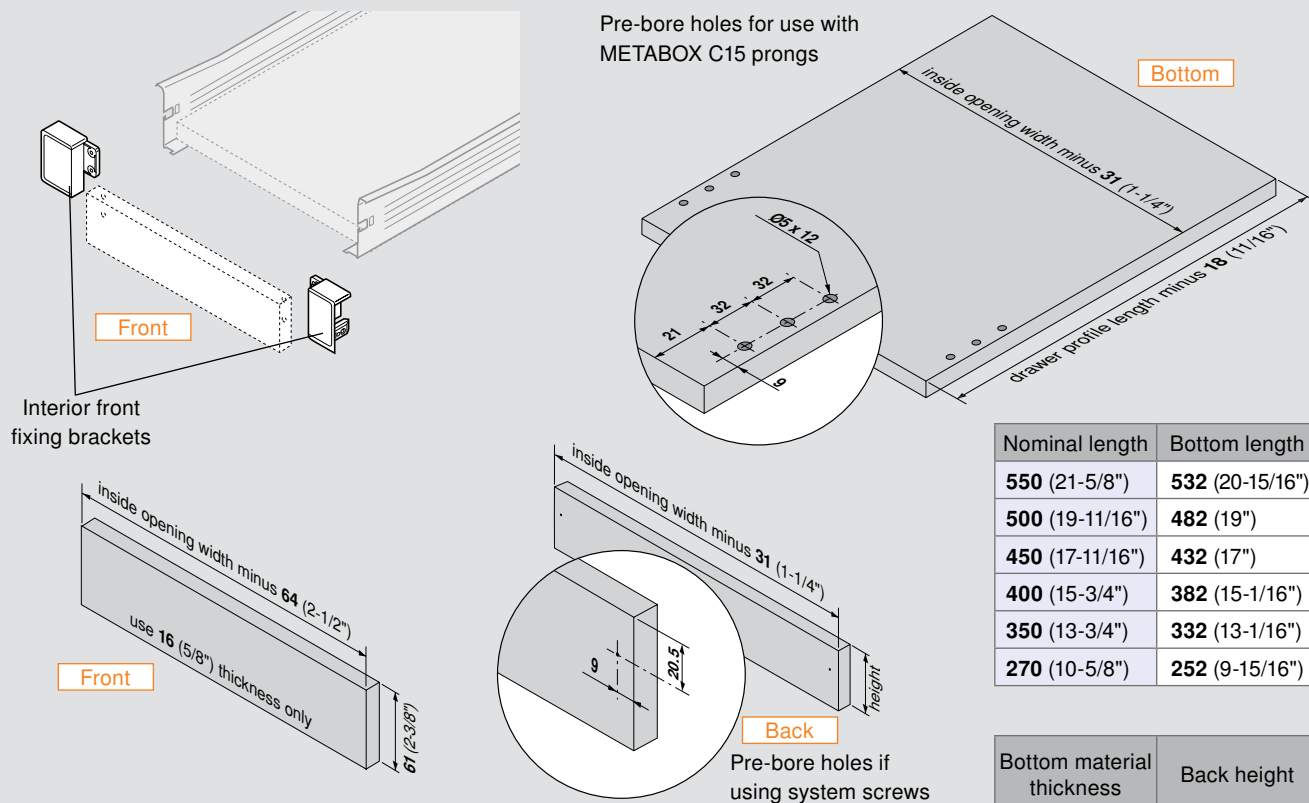
330H installation specifications



NOTE: For double gallery rail application add 64 (2-1/2") to opening and back height

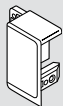
320N interior drawer application

Components



Screw-on interior front fixing bracket

Nylon



White

Part no.

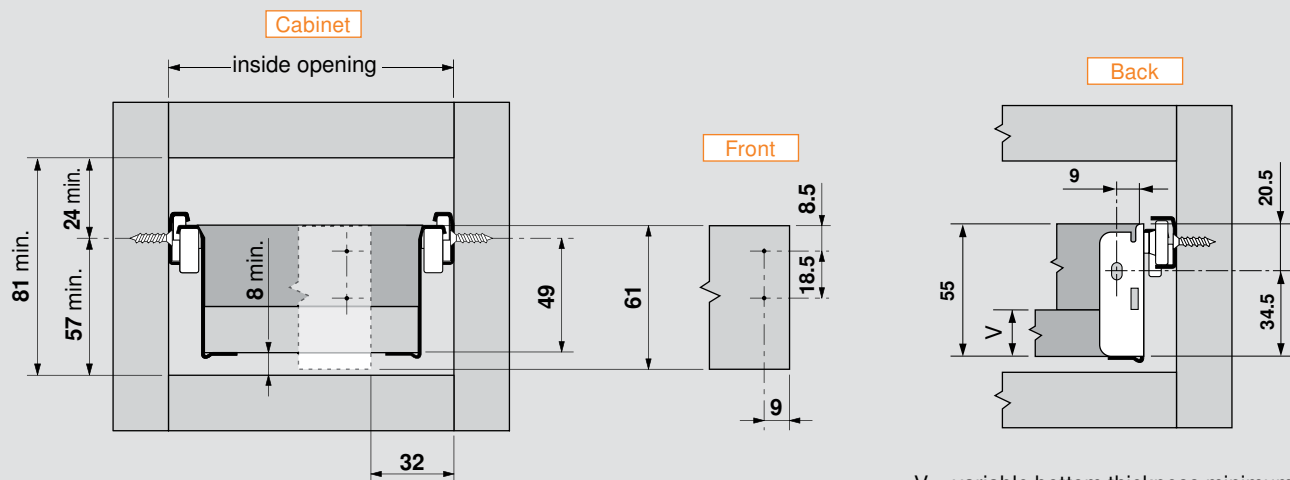
Right

ZIF.3010.02

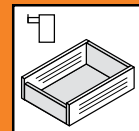
Left

ZIF.3010.03

Installation specifications



320M interior drawer application



Components

Front

Interior front fixing brackets

inside opening width minus 64 (2-1/2")

use 16 (5/8") thickness only

61 (2-3/8")

Pre-bore holes for use with METABOX C15 prongs

Bottom

inside opening width minus 31 (1-1/4")

Ø8 x 12

21 32 32 16

drawer profile length minus 18 (11/16")

Back

inside opening width minus 31 (1-1/4")

9 32 20.5

height

Pre-bore holes if using system screws

Nominal length	Bottom length
550 (21-5/8")	532 (5-7/16")
500 (19-11/16")	482 (19")
450 (17-11/16")	432 (17")
400 (15-3/4")	382 (15-1/16")
350 (13-3/4")	332 (13-1/16")
270 (10-5/8")	252 (9-15/16")

Bottom material thickness	Back height
13 (1/2")	74 (2-15/16")
16 (5/8")	71 (2-15/16")
19 (3/4")	68 (2-11/16")

Screw-on interior front fixing bracket

Nylon	White	Part no.
	Right	ZIF.3000.02
	Left	ZIF.3000.03

Installation specifications

Cabinet

inside opening

113 min.

24 min.

89 min.

8 (5/16") min.

81

61

32

8.5

18.5

9

Front

Back

9

20.5

32

34.5

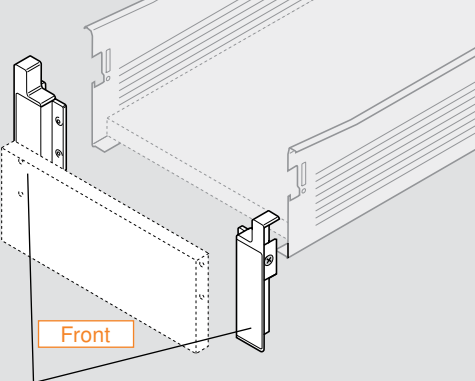
87

V

V = variable bottom thickness minimum

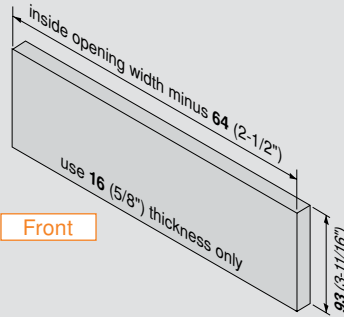
320K interior drawer application

Components



Front

Interior front fixing brackets



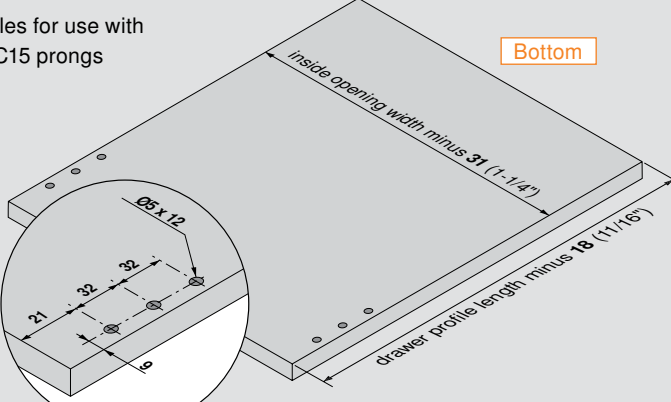
Front

inside opening width minus 64 (2-1/2")

use 16 (5/8") thickness only

93 (3-11/16")

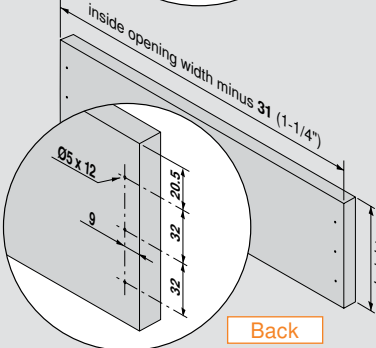
Pre-bore holes for use with METABOX C15 prongs



Bottom

inside opening width minus 31 (1-1/4")

drawer profile length minus 18 (11/16")



Back

inside opening width minus 31 (1-1/4")

Pre-bore holes if using system screws

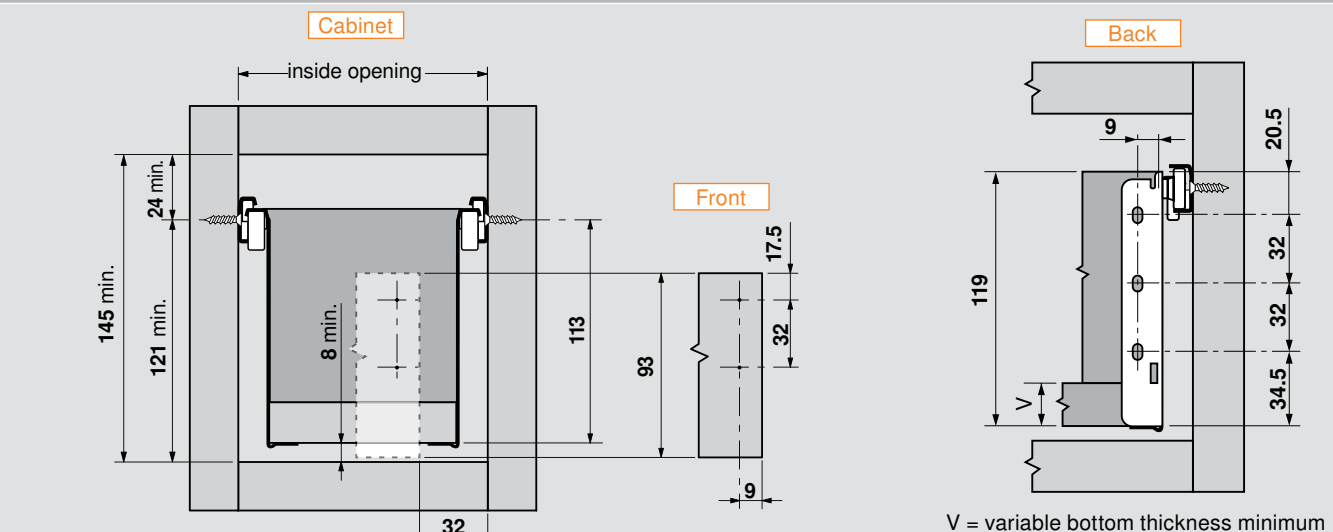
Nominal length	Bottom length
550 (21-5/8")	532 (20-15/16")
500 (19-11/16")	482 (19")
450 (17-11/16")	432 (17")
400 (15-3/4")	382 (15-1/16")
350 (13-3/4")	332 (13-1/16")

Bottom material thickness	Back height
13 (1/2")	106 (4-3/16")
16 (5/8")	103 (4-1/16")
19 (3/4")	100 (3-15/16")

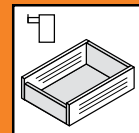
Screw-on interior front fixing bracket

Nylon	White	Part no.
	Right	ZIF.3030 R
	Left	ZIF.3030 L

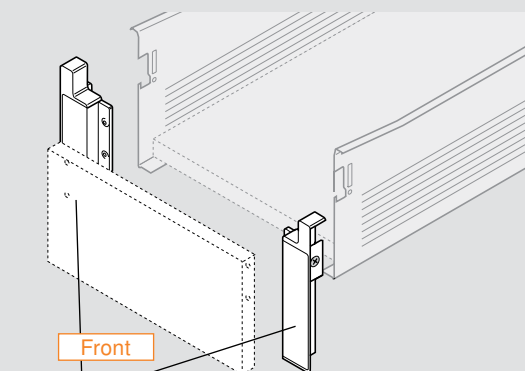
Installation specifications



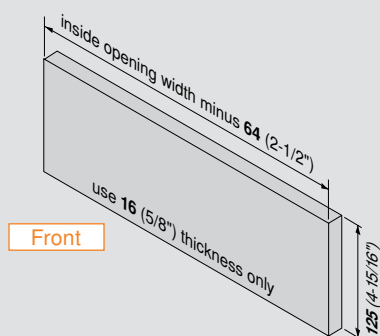
320H interior drawer application



Components

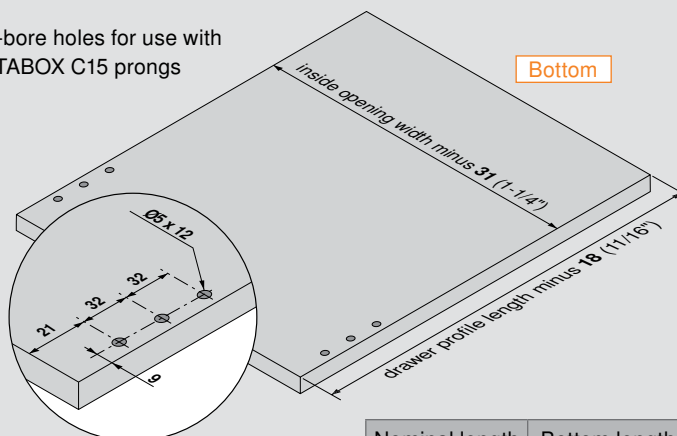


Front
Interior front fixing brackets

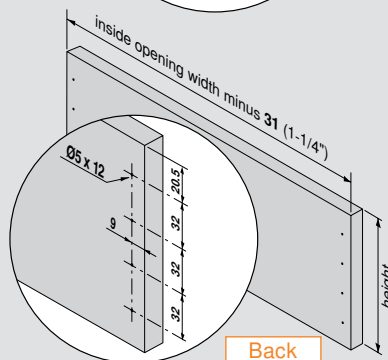


Front

Pre-bore holes for use with METABOX C15 prongs



Bottom



Back

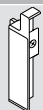
Pre-bore holes if using system screws

Nominal length	Bottom length
550 (21-5/8")	532 (5-7/16")
500 (19-11/16")	482 (19")
450 (17-11/16")	432 (17")
400 (15-3/4")	382 (15-1/16")
350 (13-3/4")	332 (13-1/16")

Bottom material thickness	Back height
13 (1/2")	138 (5-7/16")
16 (5/8")	135 (5-5/16")
19 (3/4")	132 (5-3/16")

Screw-on interior front fixing bracket

Nylon



White

Part no.

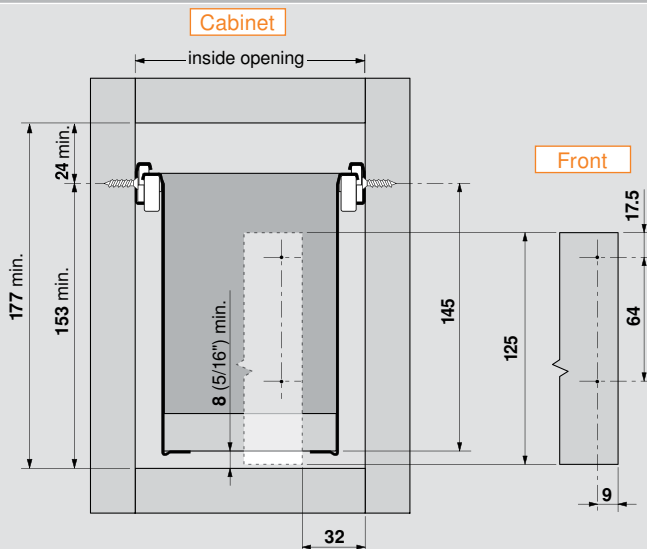
Right

ZIF.3050 R

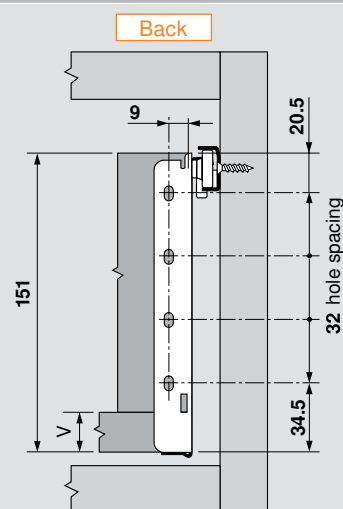
Left

ZIF.3050 L

Installation specifications



Front

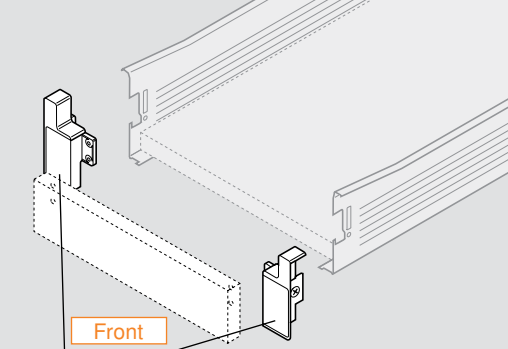


Back

V = variable bottom thickness minimum

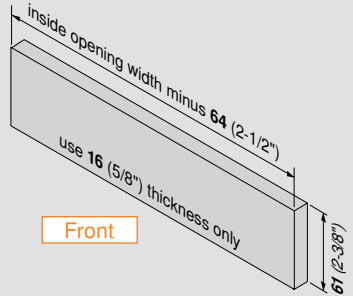
330M interior drawer application

Components



Front

Interior front fixing brackets



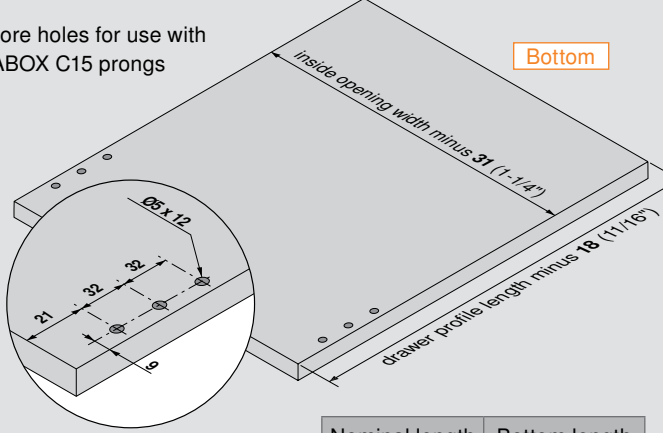
Front

inside opening width minus 64 (2-1/2")

use 16 (5/8") thickness only

61 (2-3/8")

Pre-bore holes for use with METABOX C15 prongs



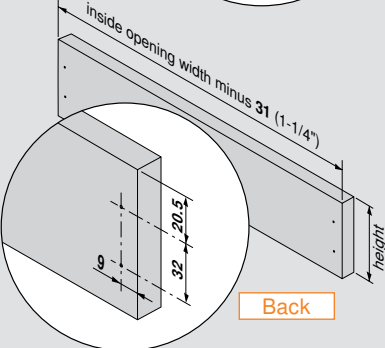
Bottom

inside opening width minus 31 (1-1/4")

drawer profile length minus 18 (11/16")

Ø5 x 12

21 22 32 16



Back

inside opening width minus 31 (1-1/4")

20.5

9 32

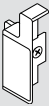
height

Pre-bore holes if using system screws

Nominal length	Bottom length
550 (21-5/8")	532 (20-15/16")
500 (19-11/16")	482 (19")
450 (17-11/16")	432 (17")
400 (15-3/4")	382 (15-1/16")

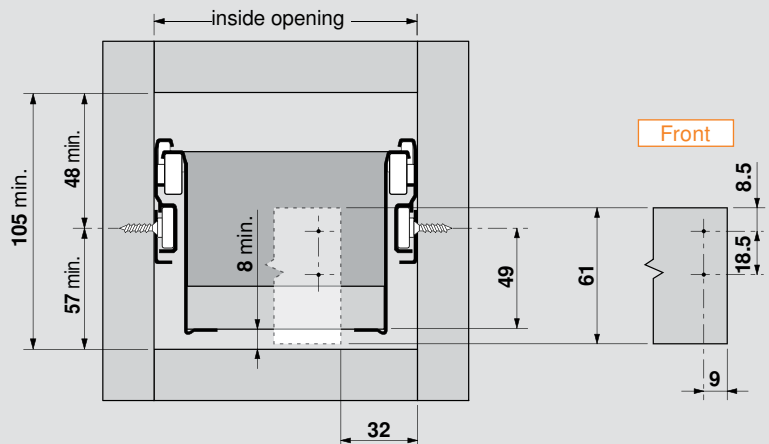
Bottom material thickness	Back height
13 (1/2")	74 (2-15/16")
16 (5/8")	71 (2-13/16")
19 (3/4")	68 (3-11/16")

Screw-on interior front fixing bracket

Nylon	White	Part no.
	Right	ZIF.3000.02
	Left	ZIF.3000.03

Installation specifications

Cabinet



inside opening

105 min.

48 min.

57 min.

8 min.

49

61

32

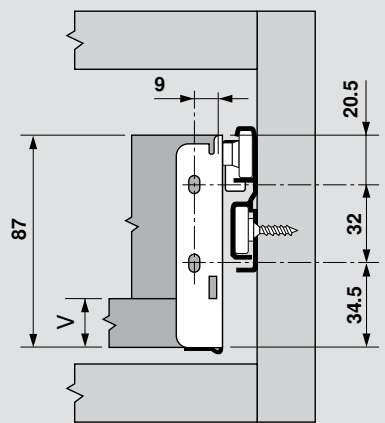
9

18.5

8.5

Front

Back



9

20.5

32

34.5

87

V

V = variable bottom thickness minimum

Diagram illustrating the front panel being attached to the chassis using a screwdriver.

Diagram of the front of a cabinet showing dimensions:

- inside opening width minus 64 (2-1/2")
- use 16 (5/8") thickness only

Diagram illustrating the bottom view of the BOX C15, showing dimensions and mounting hole locations:

- Inside opening width minus 31 (1-1/4")**: Dimension across the top opening.
- drawer profile length minus 18 (11/16")**: Dimension along the side of the drawer profile.
- Ø5 x 12**: Dimension for the mounting hole diameter and depth.
- 21**, **32**, **32**, **16**: Spacing dimensions for the mounting holes along the bottom edge.

Technical drawing of the back of a cabinet. The main view shows the back panel with dimensions: "Inside opening width minus 31 (1-1/4")" for the width and "Back 1/4" for the height. A circular inset provides a detailed view of the back panel's attachment to the side panel, showing a "95 x 12" panel with a "9" offset and a "20 1/2" dimension.

Bottom material thickness	Back height
13 (1/2")	138 (5-7/16")
16 (5/8")	135 (5-5/16")
19 (3/4")	132 (5-3/16")

Left

ZIF.3050 L

Technical drawing of the cabinet front showing dimensions and labels:

- Cabinet** (label at the top)
- Front** (label on the right)
- inside opening** (dimension line at the top)
- 169 min.** (overall height dimension on the left)
- 121 min.** (height dimension on the left)
- 48 min.** (height dimension on the left)
- 8 min.** (height dimension for the lower section)
- 113** (height dimension on the right)
- 125** (height dimension on the right)
- 17.5** (height dimension on the right)
- 64** (height dimension on the right)
- 9** (width dimension at the bottom right)
- 32** (width dimension at the bottom)

Back

151

9

20.5

32 hole spacing

34.5

V



BLUMOTION for METABOX

Application



Features

- Soft closing mechanism for METABOX 320 series
- Designed for single extension C15 only
- Minimal opening force required
- One BLUMOTION required for cabinets up to 36" wide
- BLUMATIC self-closing and BLUMOTION in one mechanism

Required parts

BLUMOTION for METABOX set

Set includes:

- Gray mechanism
- White latch



Part no.

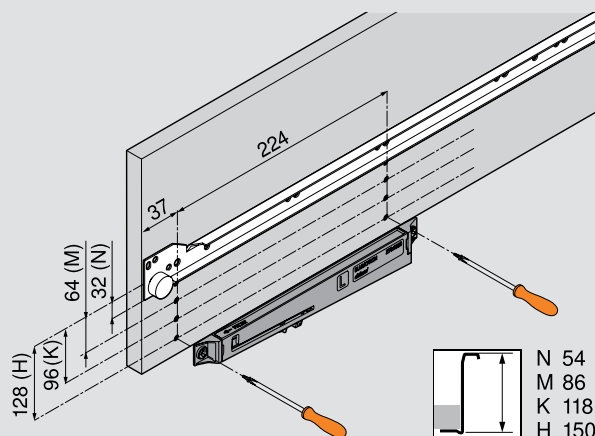
BLUMOTION set

Z70.0320

Installation

BLUMOTION mechanism mounting

Only one BLUMOTION set required for cabinets up to 36" wide



Installation screws

Part no.

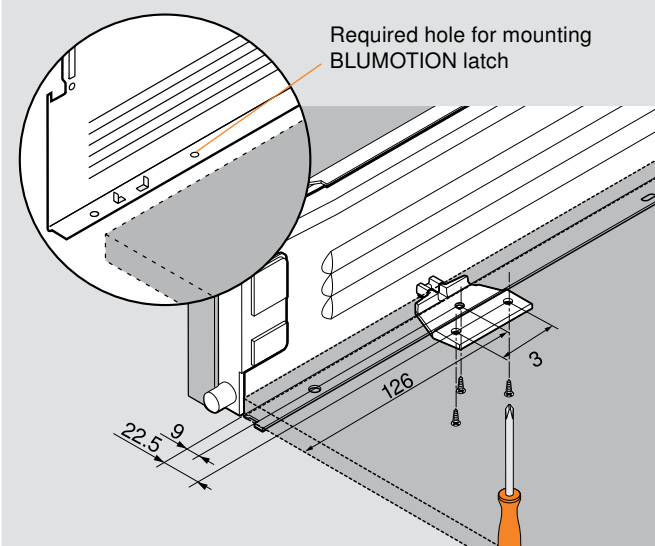
#6 x 5/8", #2 wood screw (two required)

606N or 606P

#7 x 14.5 mm system screw (two required)

661.1450HG

Latch attachment



Installation screws

Part no.

#6 x 5/8", #2 wood screw (two required)

606N or 606P



BLUMOTION for METABOX attaches on the left side of the cabinet, below the cabinet profile.



Two screws in the bottom and one in the drawer profile are required.

Dimensions

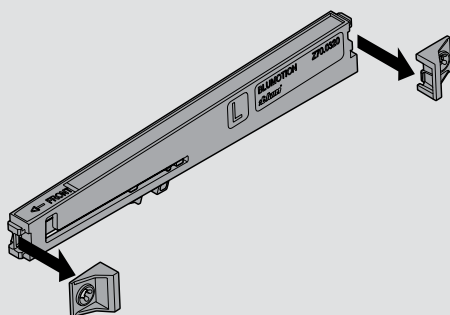
Increased space beneath the drawer required

N height drawer	M height drawer	K height drawer	H height drawer

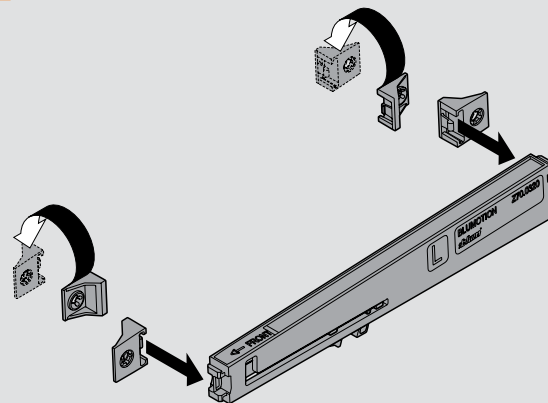
For drawers greater than 36" wide

Use two BLUMOTION for METABOX sets

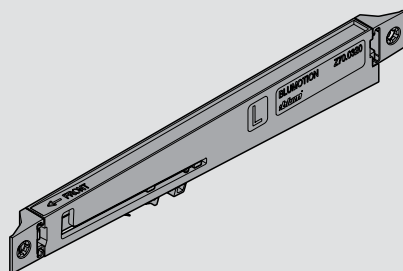
- After attaching the left mechanism, prepare the second BLUMOTION for attachment to the right side by removing the end brackets



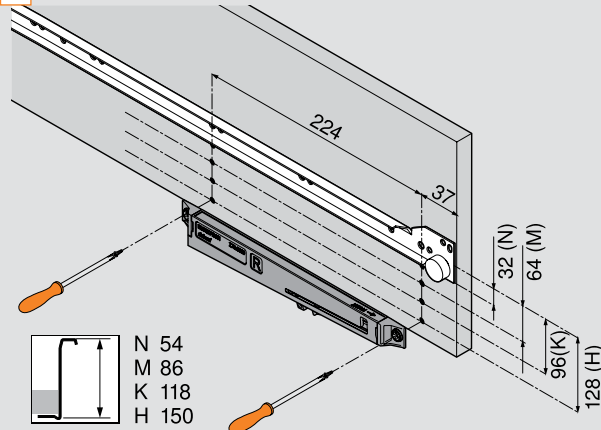
- Rotate end brackets 180° and re-attach



- The BLUMOTION mechanism is now ready for attachment to the right side of the cabinet



- Attach with the installation screws shown



Installation screws

Part no.

#6 x 5/8", #2 wood screw (two required)

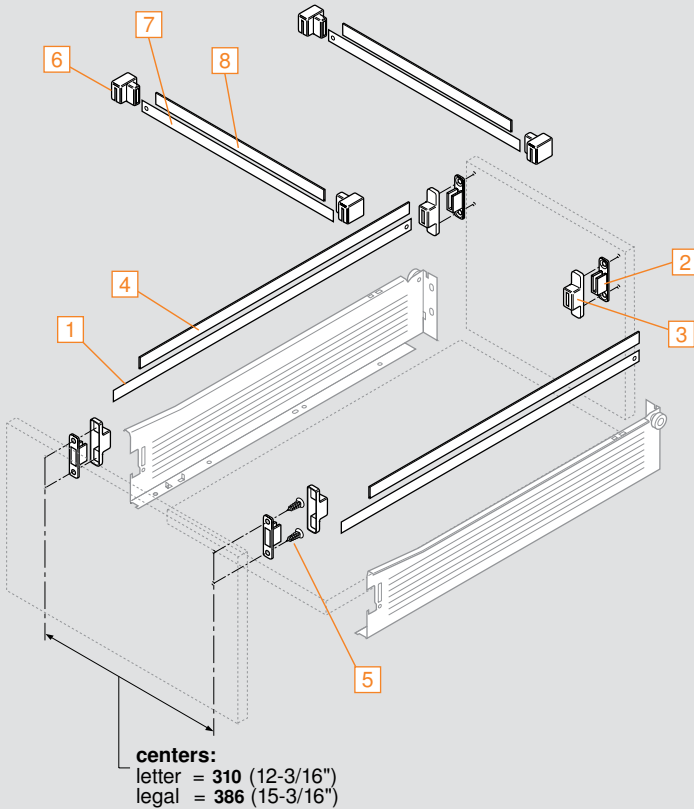
606N or 606P

#7 x 14.5 mm system screw (two required)

661.1450HG
NOTE: An additional latch is required on the right side of the drawer

File drawer application

METAFILE set



Includes components to make one standard hanging file system

Set includes:

- 1 Steel hanging rails (ZRM.550S) zinc coated, 3 x 13 x 550 (qty 2)
- 2 Rail support brackets (ZRM.0005) synthetic, natural color (qty 4)
- 3 Rail support covers (ZRM.0003) synthetic, white (qty 4)
- 4 Glide profiles (ZRM.550G) synthetic, white, 550 length (qty 2)
- 5 Flathead wood screws (6064N) nickel, #6 x 3/4" (qty 8)

Part no

METAFILE set

ZRM.5500.US

Lateral file accessories

- 6 Lateral bracket synthetic, white

Four required per drawer

ZRM.0004.10

- 7 Steel hanging rail zinc coated, 3 x 13 x 1100 cut to length

Hanging rail

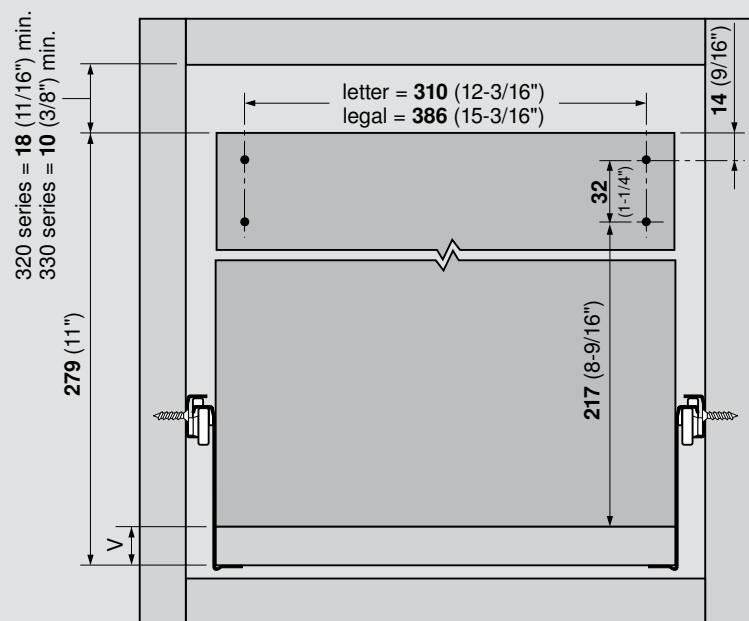
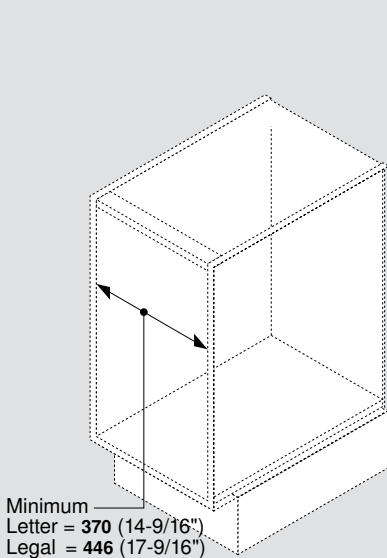
ZRM.1100S

- 8 Glide profile synthetic, white, 1100 mm long, cut to length

Glide profile

ZRM.1100G

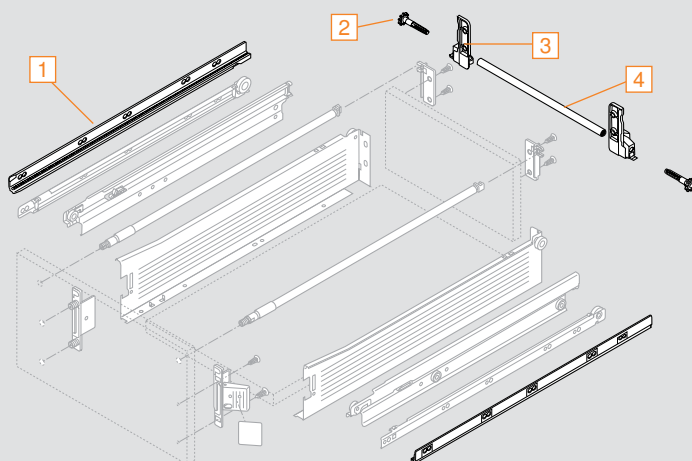
Assembly and installation specifications



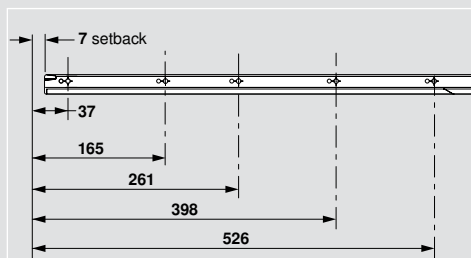
V = variable bottom thickness minimum

Lateral stabilizer

Additional stabilization for wide drawers



Minimum inside cabinet depth:
572 (22-1/2") for standard drawer
575 (22-5/8") for interior roll-out tray



For use with METABOX 330M and H series full extension drawers only.

Available for drawer lengths **550** (22")
 Linkage rod **4** can be cut according to cabinet width.

Suitable for cabinet widths up to **1200** (47").
 Simple assembly of all components.

Does not increase load capacity.

Set includes:

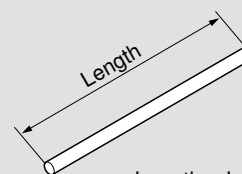
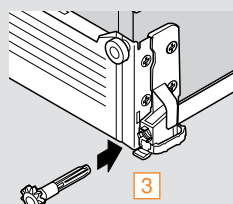
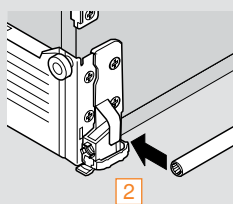
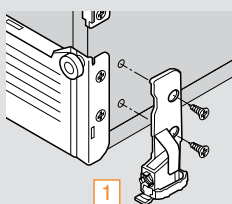
- 1** Gear racks, R & L
- 2** Pinion gears (qty2)
- 3** Brackets, R & L
- 4** Linkage **1076** (42-3/8")

Part no.

550 (22") drawer length

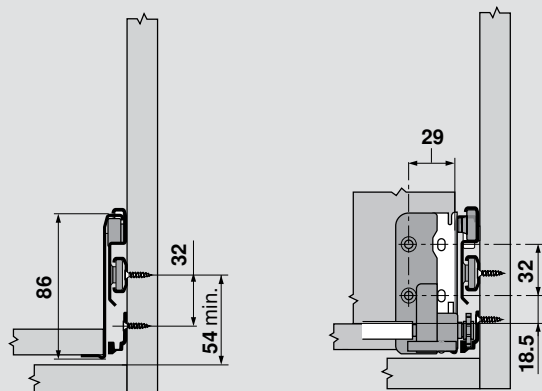
ZST.550MH

Assembly and installation specifications

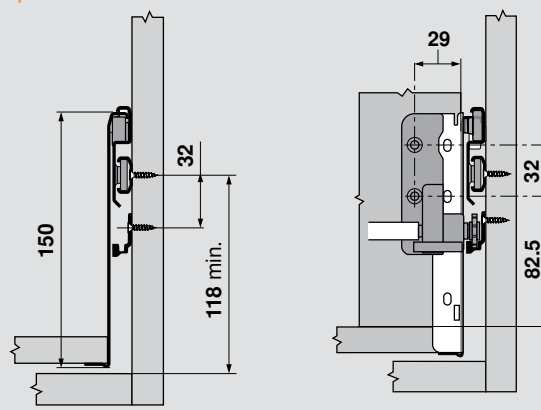


Length = Inside opening width
 minus **86** (3-3/8")

330M specifications

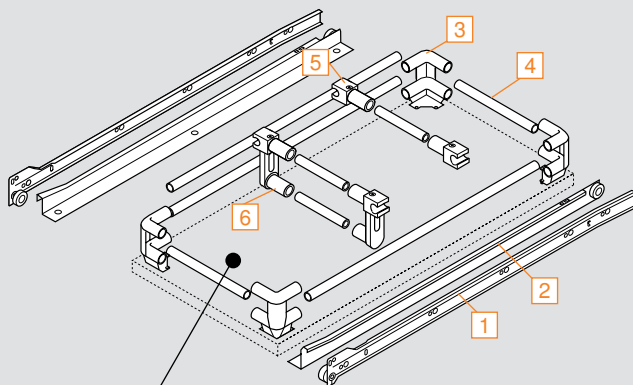


330H specifications



Roll-out shelf application

For interior roll-out shelf organization



Roll-out bottom dimensions

Width = inside opening width minus 25

Deduct side spacer width if used

Length = drawer Nominal length

STANDARD runner set 1 & 2

L&R cabinet and drawer profiles

Colors: white

Drawer length	Part no.
350 (13-3/4")	230M3500
400 (15-3/4")	230M4000
450 (17-11/16")	230M4500
500 (19-11/16")	230M5000
550 (21-5/8")	230M5500

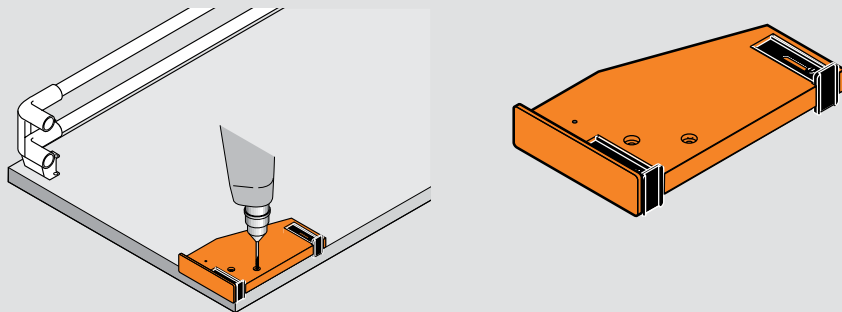
3 Corner post	
synthetic, white	ZTU.00Z0

4 Gallery rails	
104 (44") long, cut to length	
white	ZRG.1104U

5 Single gallery connector	
synthetic, white	ZRU.00E0.01

6 Double gallery connector	
synthetic, white	ZRU.00Z0.01

Assembly and installation specifications



For roll-out surround assembly

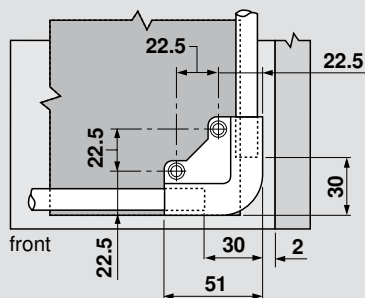
The roll-out surround drilling gauge enables pre-boring of the fixing positions for the corner posts.

Set includes:

- Special Ø2 mm drill bits (qty 3)
- #2 Phillips, long screwdriver blade

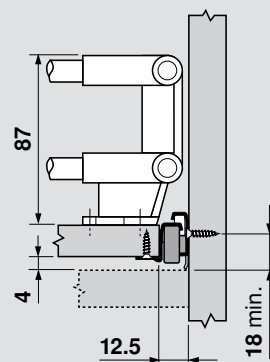
	Part no.
Boring gauge	ZML.0010

Installation specifications

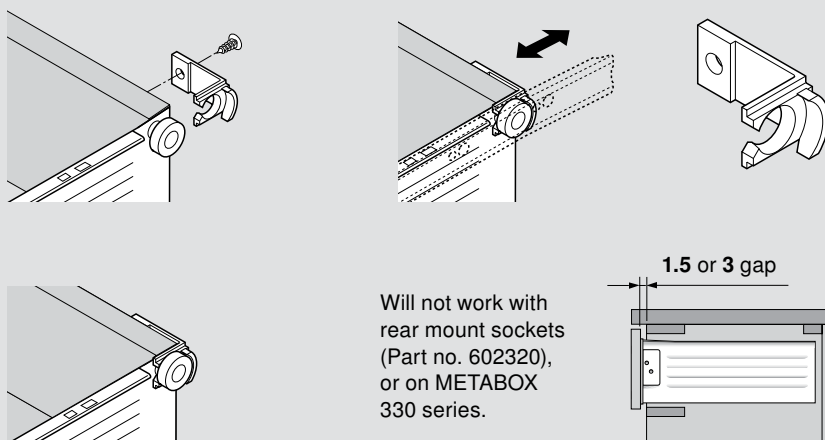


- Side gallery rail length = Nominal length minus 60 (2-3/8")
- Front and back gallery rail lengths = interior cabinet width minus 69 (2-11/16")
- Attach with 606N or 606P screws

Corner post specifications



POSI-STOP assembly



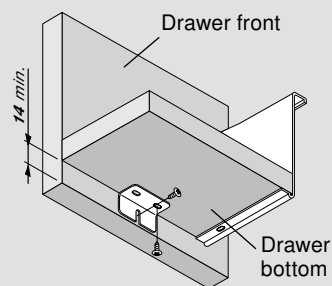
Add-on device to keep drawer front from contacting the cabinet face.

- Available in thicknesses of 1.5 (1/16") or 3 (1/8")
- Synthetic, natural finish
- Non-handed
- Use two per drawer
- Snap in place and secure with wood screw

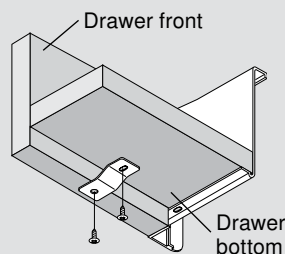
Part no.	
1.5 (1/16") gap	298.3210.01
3 (1/8") gap	298.3230.01
Installation screws	606N or 606P

Drawer front support brackets

Standard drawers



Interior pull-out trays



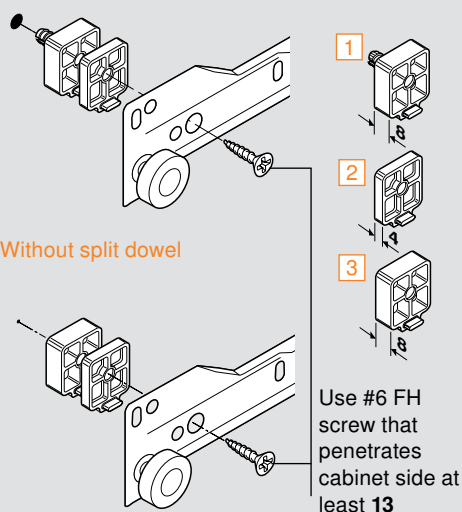
Add-on brackets for wide drawers to keep the front tight to the drawer bottom.

- Stainless steel
- Attach with 612TH screws #6 x 1/2" trusshead

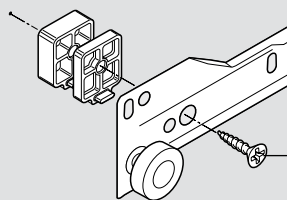
Part no.	
For standard drawers	ZSB.0090.01
For interior roll-out trays	ZSB.0045.01
Installation screw	612TH

Cabinet profile spacers

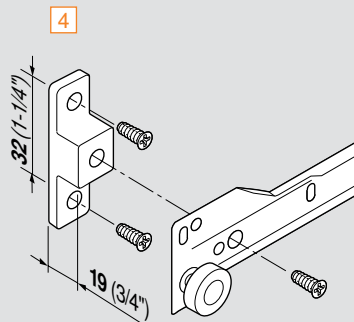
With split dowel



Without split dowel



Heavy duty spacer



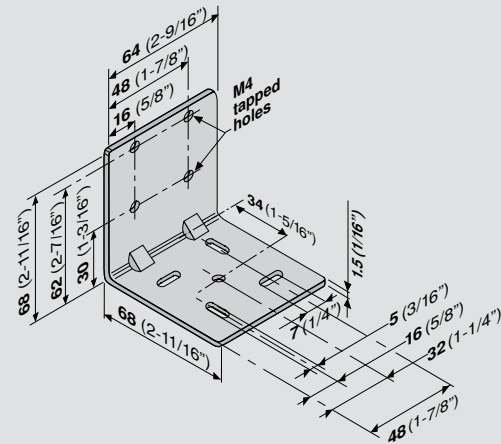
NOTE: Use spacers on front, middle and rear of each cabinet profile for adequate support

To space runners away from the cabinet side to clear door protrusion for interior roll-out trays.

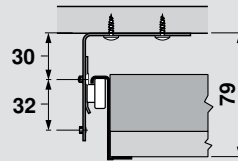
- Two thicknesses available that can be stacked up to 24 (15/16")
- Synthetic, cream color

1	8 (5/16") with Ø5 (3/16") x 11 dowel for linebore mounting	Part no.
		320M0188
2	4 (5/32") stackable	320M0048
3	8 (5/16") stackable	320M0088
	Installation screw	606N or 606P
4	32 (1-1/4") x 19 (3/4") Synthetic, white color	
	Heavy duty spacer	602750
	Installation screw	661.1150
	Installation screw	661.1450

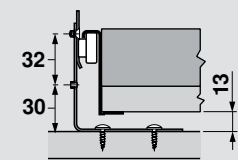
Universal drawer bracket set



METABOX top mount (320N shown)



Bottom mount (320N only)



For mounting Blum runners to the underside of a counter surface (pencil drawer) or to the floor of a cabinet (roll-out tray).

- Zinc-coated steel
- Attach to cabinet with Blum 612TH screws, #6 x 1/2" truss head

Set includes:

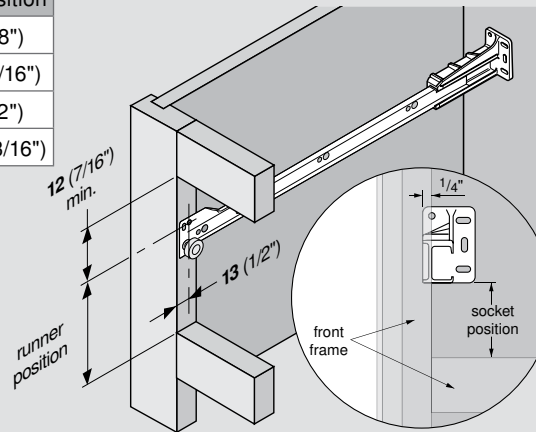
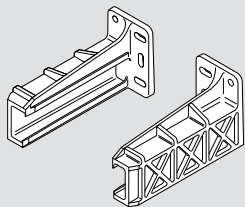
- Universal brackets (qty 4)
- M4 x 6 flathead machine screws to attach runners to brackets (qty 8)

Part no.

Drawer bracket set	295.4000
Installation screw	612TH

Rear mount sockets

Series	Runner position	Socket position
320N	66.5 (2-5/8")	35.5 (1-3/8")
320M	99.5 (3-15/16")	67.5 (2-11/16")
320K	131.5 (5-3/16")	89.5 (3-1/2")
320H	163.5 (6-7/16")	131.5 (5-3/16")



For use with METABOX 320N, M, K, H and STANDARD 230M runners in frame cabinets.

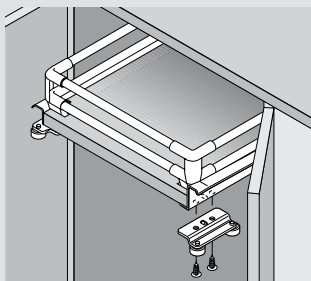
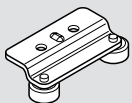
- Synthetic, cream color
- Attach with Blum 612TH screws, #6 x 1/2" trusshead

NOTE: Cannot be used with METABOX 330 series or in conjunction with POSI-STOP's

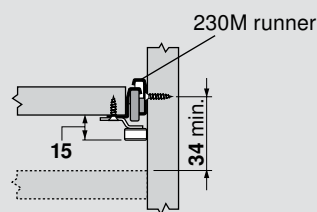
Part no.

Left and right socket set	602320
Installation screw	612TH

Door protectors



Space requirements



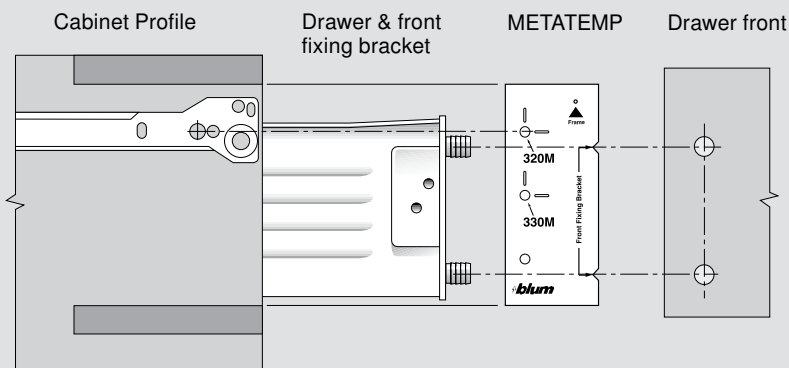
For pull-out surrounds to prevent damage to doors.

- Epoxy coated steel with synthetic rollers, cream color
- Attaches to the underside of the drawer
- For use with STANDARD 230M runners only

Part no.

Door protector	298.2200
Installation screw	612TH

METABOX layout templates



METATEMP layout templates provide a simple means for locating the cabinet profile and front fixing bracket positions.

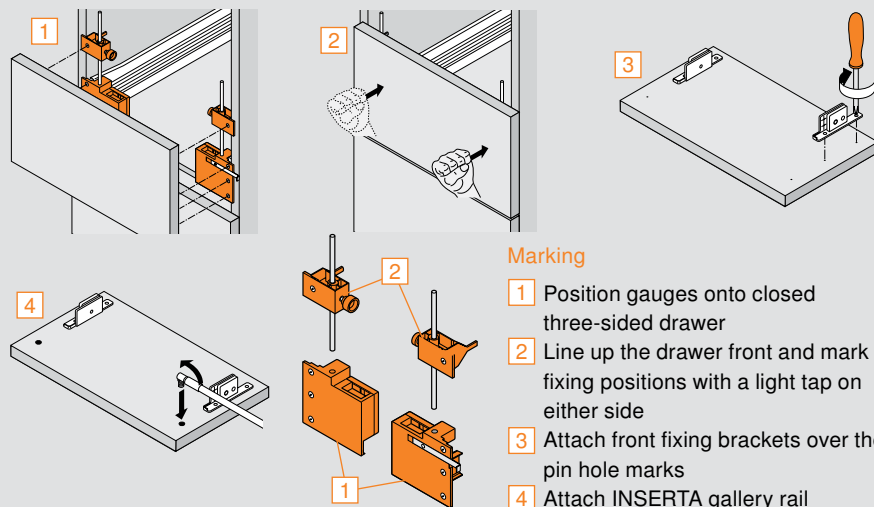
- Included in each kit are five templates for 320N, 320/330M, 320K, 320/330H, and a gallery locator for all series.
- Each template's height is the minimum cabinet opening size required. To use, place on a side panel and mark the cabinet profile location. Transfer the front fixing bracket location to the drawer front.
- For linebored cabinets, insert a shelf pin through the template into the system hole.

Part no.

Layout template

METATEMP

Drawer front marking gauges



For marking all front fixing bracket positions including drawers with galleries.

Standard marking gauge set

Part no.

For METABOX 320N, K, H

ZML.1500

For METABOX 320N

ZML.1510

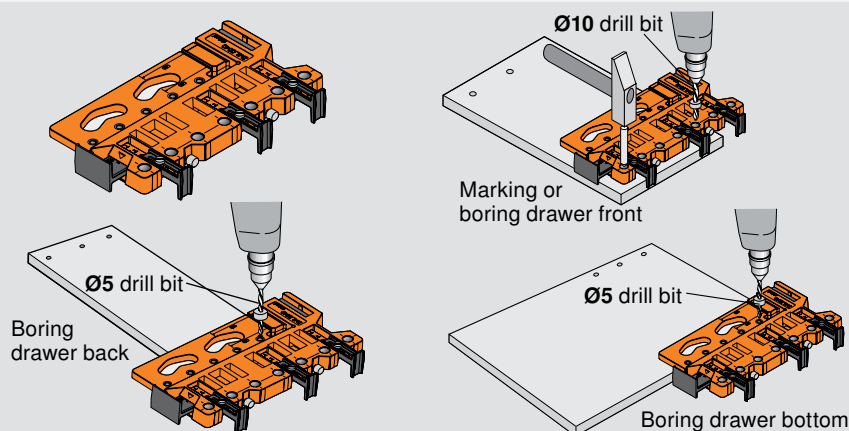
Gallery marking gauge set

- Rod with adjustable marking gauges (qty 2)

Gauge set

ZML.8000.02

Universal boring template set



For manually boring all the holes necessary to build a METABOX drawer.

Boring template can be used for drawer front, back and bottom. Locates all fixing points.

Ø5 (3/16") & Ø10 (3/8") stop collars included.
Ø10 (3/8") center punch included.

Part no.

Boring template set

ZML.0040

Ø5 (3/16") drill bit

DB-5mm

Ø10 (3/8") drill bit

DB-10mm

Assembly aids

MINIFIX



For precise positioning of cabinet profile fixing screws.

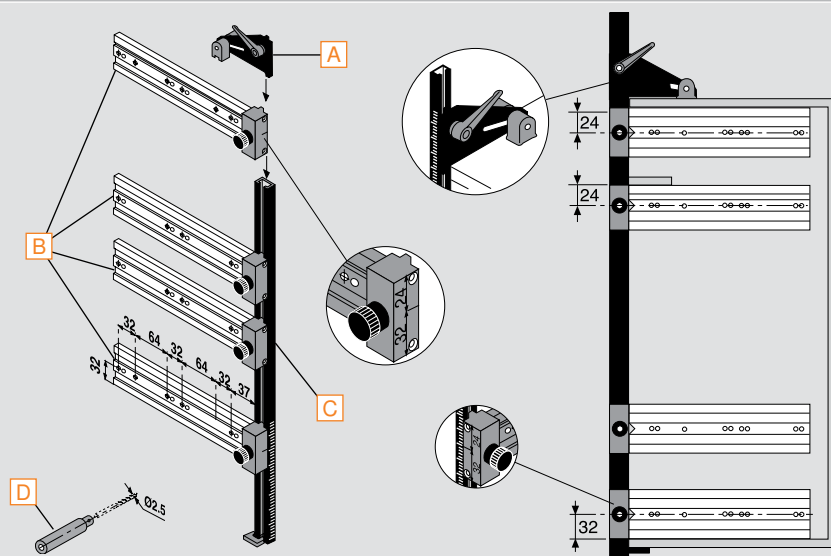
- For METABOX series 320N, M, K, H
- For runners 230M

Part no.

MINIFIX

65.3300

Adjustable calibrated boring gauge set

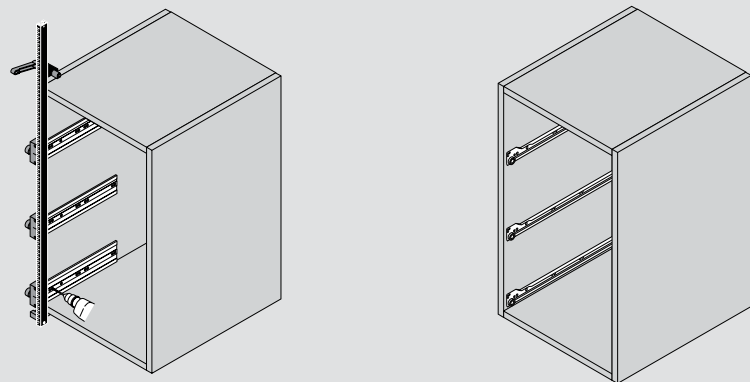


For determining cabinet profile positions and pilot boring.

- Boring gauge can be used with assembled or unassembled cabinets
- Locates precise and level fixing points of cabinet profiles
- Calibrated metric rail for locating cabinet profile position

Set includes:

- A** Clamp assembly
- B** Templates
- C** Calibrated rail, length 1000 (39")
- D** Extension drill bit for Ø2 (1/8")



- 1 Determine runner locations
- 2 Set templates on the bar by the scale
- 3 Clamp assembly to the cabinet side
- 4 Bore Ø2 mm pilot holes for front and middle mounting positions
- 5 Fasten runners to cabinet with wood screws
- 6 Add screws to back of runner for added strength as required

Part no.

Boring gauge set

65.1000

2 mm twist bit

DB-2mm

Machines

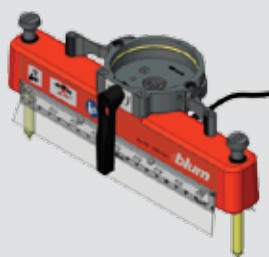
MINIPRESS P — Deluxe boring and insertion machine			
	- Front adjustable boring distance with digital counter - Pneumatic hold-down clamps - Boring depth adjustment - Ruler stops (qty 4) - Tool kit included - Dust collection attachment		- Optional laser center line set - Accepts new 8 or 9 spindle heads
	Single phase — 220V power		Part no. M53.1053*US
	Three-phase — 220V power		M53.1004*US
MINIPRESS M — 110V manual boring and insertion machine			
	110V power with molding plug (portable) - Does not require pressurized air - Ruler stops (qty 4) - Tool kit included - Dust collection attachment		Accepts new 8 or 9 spindle heads
	Single phase — 110V power		Part no. M52.1056*US
	MINIDRILL P — Standard boring machine		
	- Front adjustable boring distance - Ruler stops (qty 4) - Tool kit included - Dust collection attachment		- Optional laser center line, digital counter and hold down clamps sets - Accepts new 8 or 9 spindle heads
	Single phase — 220V power		Part no. M53.1053*50

Optional items					
					
Part no.		Part no.		Part no.	
Laser center line set	MZR.5300.US	Digital counter set	MZE.2110	Hold down clamp set	M53.0720.US

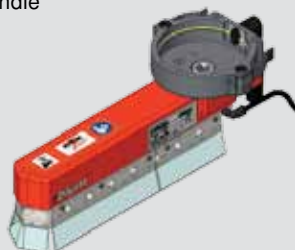
Assembly aids

MINIPRESS boring heads

Nine spindle



Eight spindle



For line boring with the MINIPRESS.

The nine spindle head bores nine holes 32 mm apart, parallel to the fence. The eight spindle head bores eight holes 32 mm apart, perpendicular to the fence. Bores for all METABOX front fixing brackets and galleries.

Part no.

Nine spindle boring head **MZK.1900**

Eight spindle boring head **MZK.8800**

Countersink drill bit



Part no.

Ø10 mm drill bit (LH)

T108-10mm L

Drill bits



Drill bits for the MINIPRESS/MINDRILL and boring heads.

Part no.

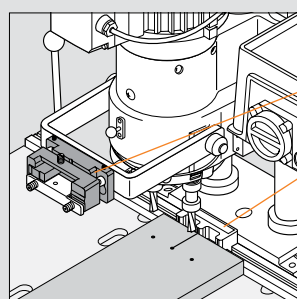
Ø5 mm drill bit (right hand) **M01.ZB05.D2**

Ø5 mm drill bit (left hand) **M01.ZB05.D3**

Ø10 mm drill bit (right hand) **M01.ZB10.02**

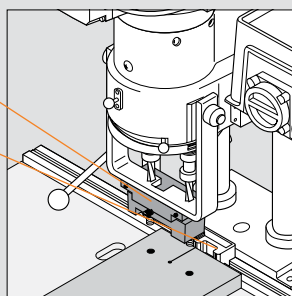
Ø10 mm drill bit (left hand) **M01.ZB10.03**

Installation tools

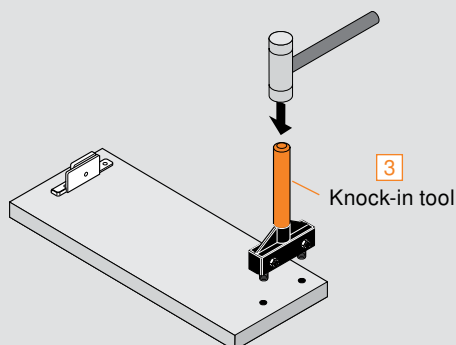


Drill fixing holes

1
Insertion ram
2
Three spindle locator



Insert front fixing brackets



3
Knock-in tool

For location and insertion of front fixing brackets.

Three spindle locator enables the positioning of the drawer front without using fence stops.

Part no.

1 Insertion ram for MINIPRESS

ZSF.1300 and ZSF.1800 **MZM.0092.01**

2 Three spindle locator **MZR.2000**

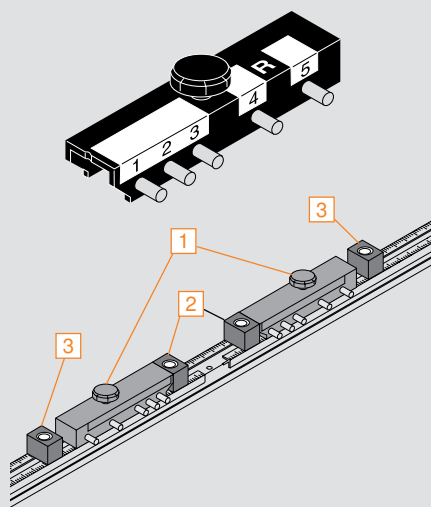
3 Knock-in tool

ZSF.1300 and ZSF.1800 **ZME.1600.01**

3 Knock-in tool

ZSF.1610 **ZME.1610**

MINISTICK fence stop



Enables fast setup for drawer front boring and front fixing bracket insertion with the MINIPRESS.

Eliminates the need for multiple fence stops.

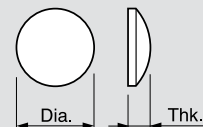
Set includes:

- 1 LH & RH adj. stick mechanism
- 2 Upper drawer stop (qty 2)
- 3 Bottom drawer stop (qty 2)

NOTE: Essential tool for production boring of drawer fronts

	Part no.
MINISTICK	MZS.0040

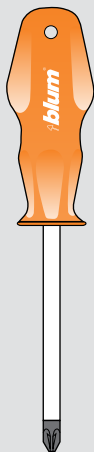
Bumpers



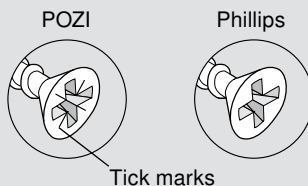
- Cushions door closing
- Clear with a self-adhesive back

	Part no.
Ø7.5 (9/32") x 2 (3/32")	FX4041
Ø12 (15/32") x 3.5 (1/8")	SJ5312

POZI DRIVER and bits



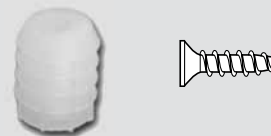
A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.



	Part no.
#2 POZI DRIVER	POZI DRIVER
1/4" Magnetic bit holder	BIT HOLDER
#2 x 1" POZI bit insert	POZI BIT #2x1
#2 x 2" POZI bit insert	POZI BIT #2x2

Replacement dowell and screw

Replacement dowell and screw for the front fixing brackets.

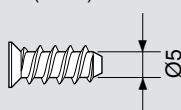


	Part no.
Ø10 mm dowell	80.3532
Dowell screw	608.1200

Screws

Deep thread system screw

Pilot bore Ø5 (3/16") hole



	Part no.
#7 x 11.5 mm, #2 POZI	661.1150.HG
#7 x 13 mm, #2 POZI	661.1300.HG
#7 x 14.5 mm, #2 POZI	661.1450.HG
#7 x 11.5 mm, Special	662.1150.HG

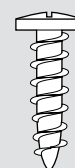
Deep thread wood screw



	Part no.
#6 x 5/8", #2 Phillips	606N
#6 x 5/8", #2 POZI	606P
#6 x 3/4", #2 Phillips	6064N
#7 x 5/8", #2 Phillips	707N
#7 x 3/4", #2 Phillips	7074N

Truss head wood screw

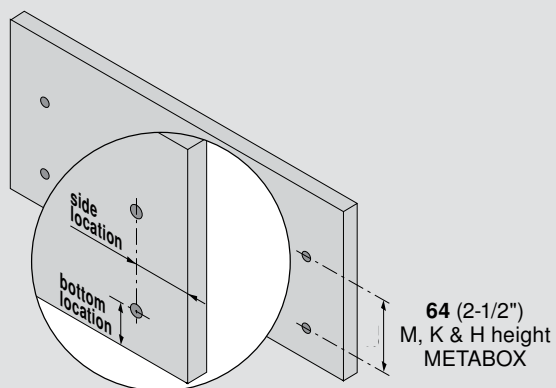
Pilot bore Ø2 (3/32") hole



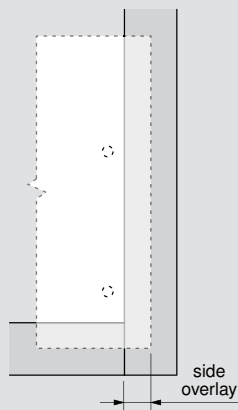
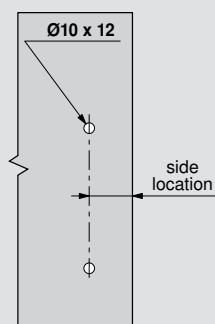
	Part no.
#6 x 1/2", #2 Phillips	612TH

Drawer front overlay charts

Determining front fixing bracket locations



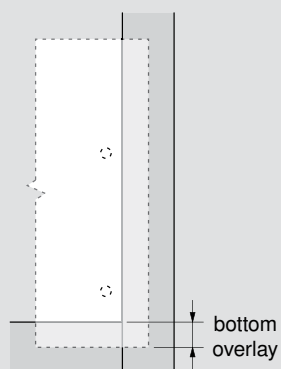
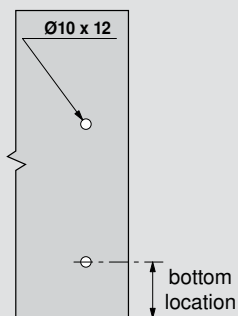
Side location



Side overlay	Side location
13	21.5
14	22.5
16	24.5
17.5	26
19	27.5

NOTE: For overlays not shown please refer to specification pages 6-19 to calculate hole locations

Bottom location



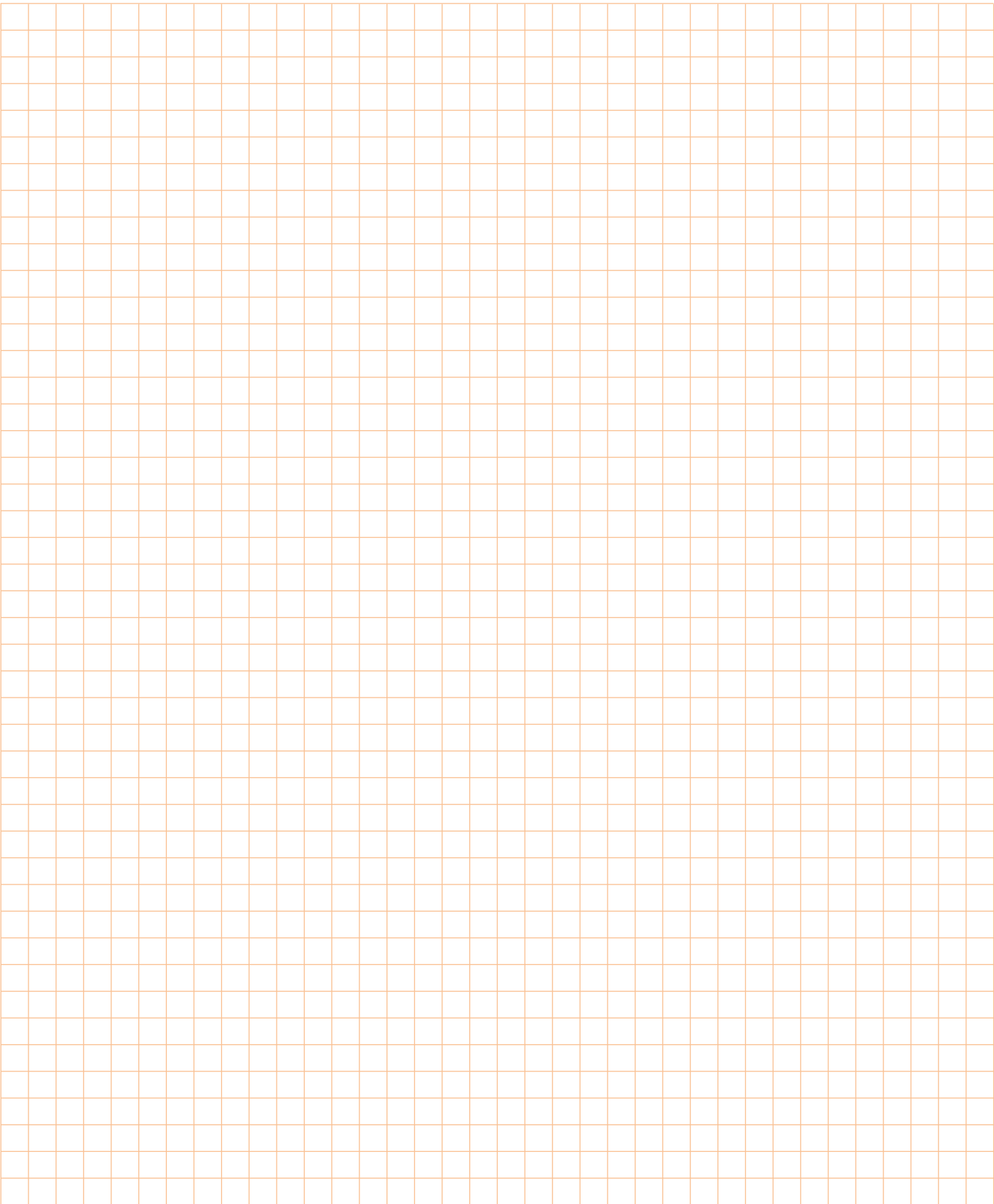
Bottom overlay	Bottom location		
	N and M	K	H
13	26.5	58.5	90.5
14	27.5	59.5	91.5
16	29.5	61.5	93.5
17.5	31	63	95
19	32.5	64.5	96.5

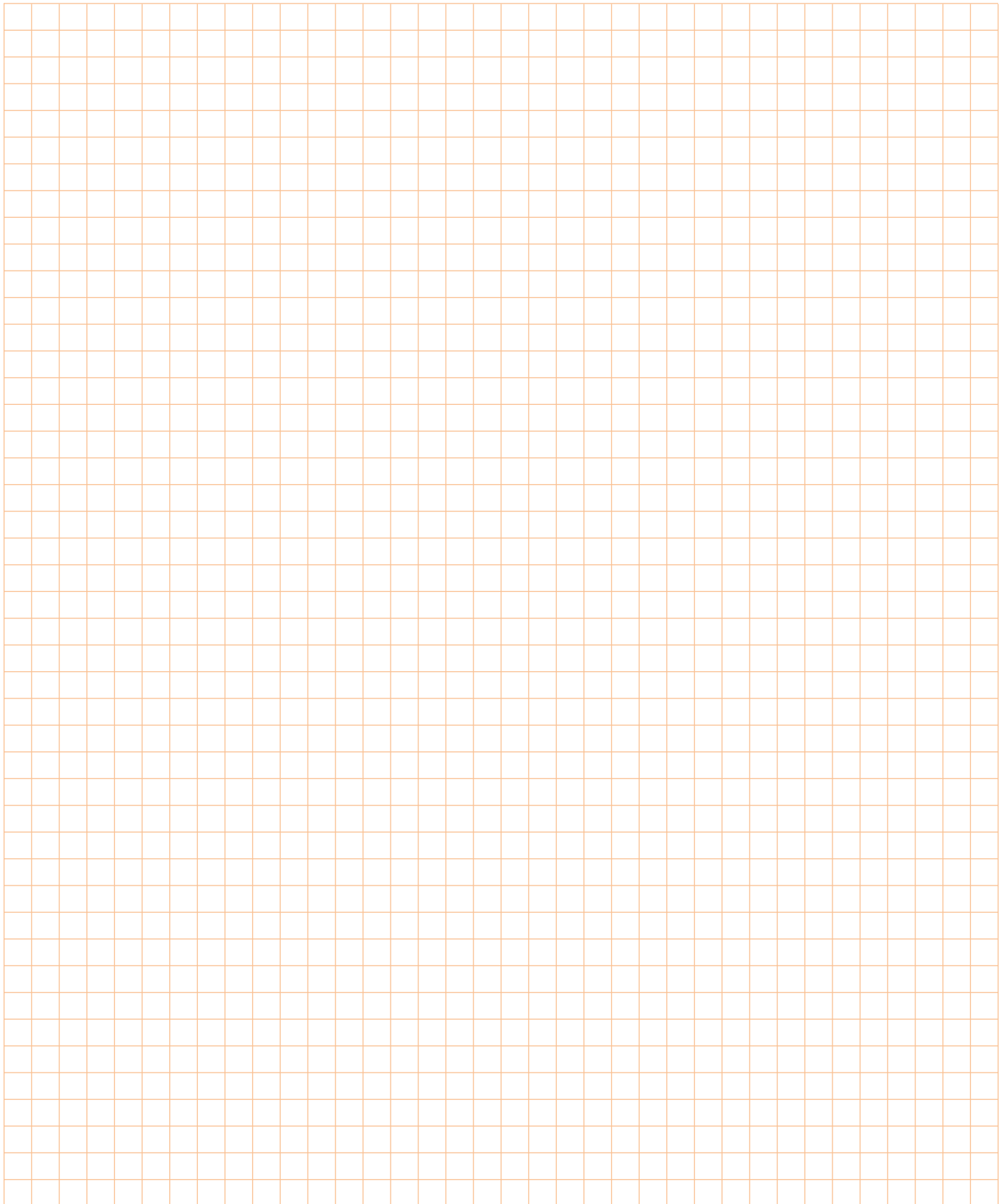
NOTE: For overlays not shown please refer to specification pages 6-19 to calculate hole locations

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Blum, Inc. Headquarters, Stanley NC

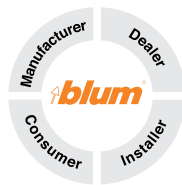
Why choose Blum



Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casework industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional is available within the wide range of quality Blum products. Blum supports the U.S. market with a network of more than 150 dependable distributors, 40+ knowledgeable Blum sales representatives and an experienced customer service department.

Commitment to manufacturing in the U.S.

Blum manufactures many of its products in our 450,000 sq ft manufacturing, logistics and warehouse facility located in Stanley, North Carolina. Manufacturing closer to the customer allows Blum to react quickly to changing customer needs including unexpected surges in demand. Customer pickups and deliveries can be timed to better match their production schedules. Blum is committed to manufacturing in the U.S. for the U.S. market.



Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. What's more they exceed the requirements of ANSI/ BHMA standards for cycle life, static load and self-closing performance.



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