



STANDARD

Drawer runner program

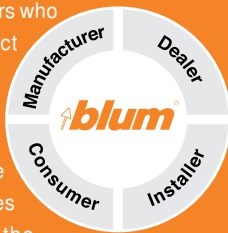


Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casegoods industries specializing in concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional are available within the wide range of quality Blum products.

Blum's manufacturing and distribution facility in Stanley, North Carolina supplies the North American markets through a network of more than 150 dependable distributors. Wholly owned by the Blum family, the company was formed in 1952 by Julius Blum and is headquartered in Hoechst, Austria.

Global customer benefits

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 from the manufacturer to the end consumer.



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. Contact your local Blum representative for more details.

STANDARD drawer runners

Blum STANDARD drawer runners apply proven technology built upon years of experience to ensure a solid performance that will last a lifetime. The program is designed for a variety of applications including interior roll-outs to full extension for access to the entire drawer.

The STANDARD drawer runner series is the runner of choice when performance, function and durability are desired. Blum offers three series of conventional drawer runners that deliver exceptional running action.

The 230M is a single extension bottom mounted drawer runner with Blumatic self-closing action. The durable epoxy coated steel profiles are available in lengths from 10" to 26" with cabinet profiles compatible to the 32mm line bore pattern.

The 230E single extension series is made for extremely long drawers. It is available in 28" to 32" lengths. Both the 230M and 230E series can be installed in frame cabinets with optional rear mount sockets.

The 430E full extension series is available in lengths from 10" to 32". The series features a safety lock to prevent accidental drawer removal and an intermediate profile lockout for easy drawer insertion.

All STANDARD drawer runners exceed BHMA Grade 1 requirements (75 lbs. dynamic load capacity, and 100 lbs. static load capacity).

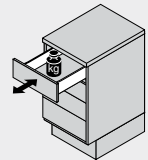
Table of Contents

STANDARD Drawer Runner Program	3
230M Series	4 - 5
230E Series	6 - 7
430E Series	8 - 9
430E Assembly	10
STANDARD Accessories	11 - 12
Unique Applications	13

Testing standards at Blum

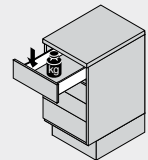
Dynamic wear test

100,000 open/close cycles with a total weight of 75 lbs on a 22" drawer.



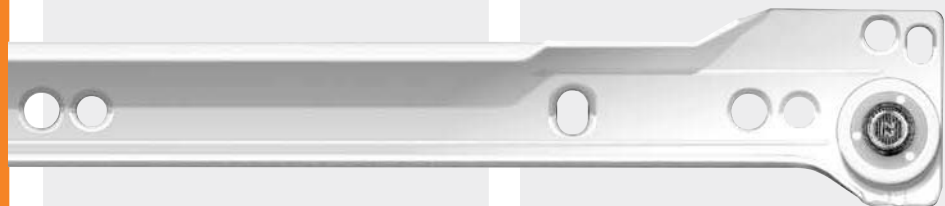
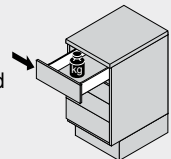
Static loading test

100 lbs applied to a half extended 22" drawer for 1 minute.



Side pressure test

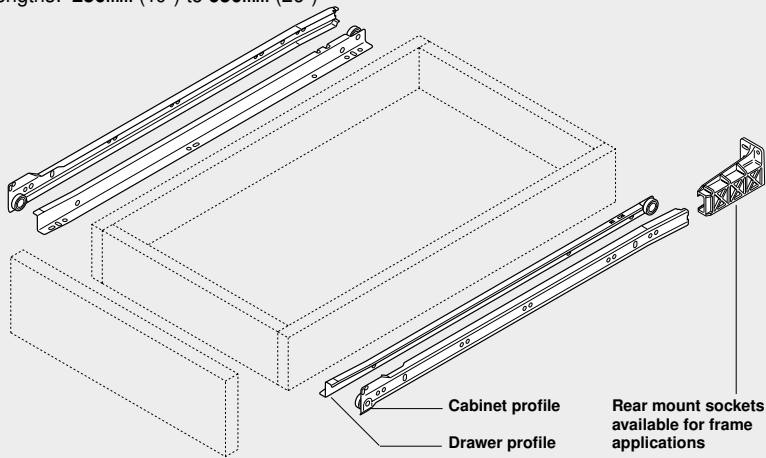
A force of 33 lbs is applied ten times to a fully extended 22" drawer.



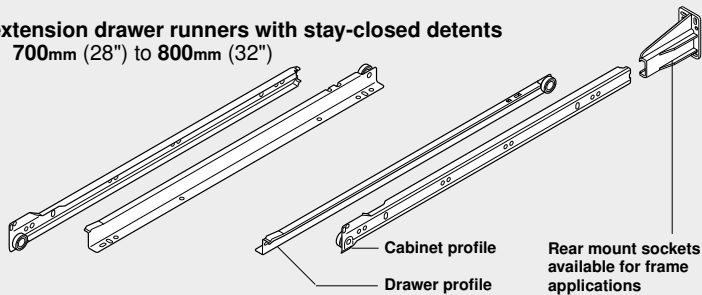


STANDARD drawer runner program

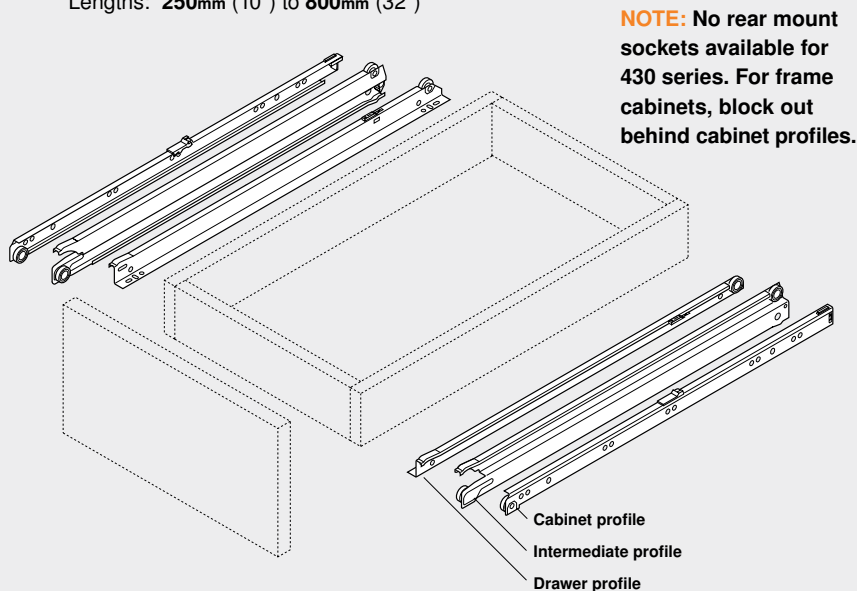
230M Single extension, BLUMATIC self-closing drawer runners Lengths: 250mm (10") to 650mm (26")



230E Single extension drawer runners with stay-closed detents Lengths: 700mm (28") to 800mm (32")



430E Full extension drawer runners with stay-closed detents Lengths: 250mm (10") to 800mm (32")



230 series drawer runners



- Single extension, bottom mounted
- Durable epoxy coating in cream or white
- Smooth running synthetic rollers on tempered steel axles
- Captive RH profiles/tolerance LH profiles
- 1/2" side clearance
- Double warning lift out stop

230M series have BLUMATIC self-closing action. Angled drawer and cabinet profiles create a parallel drop 3/32".

230E series have stay-closed detents in the drawer profiles that hold the drawer in the closed position.

430 series drawer runners



- Full extension, bottom mounted
- Durable epoxy coating in cream or white
- Smooth running synthetic rollers on tempered steel axles
- Double captive profiles
- 1/2" side clearance
- Lock out stops to prevent drawer removal
- Intermediate profiles lock out for easy drawer installation
- 1-1/4" over extension
- Detents in the drawer and intermediate profiles hold the drawer closed

Millimeter to inch equivalents

1	1.5	2	3	4	5	5.5	6	7	8	9	9.5	10	11	12	13	13.5	14	15	16	17	17.5	18	19	20	20.5	21	22	23	24	24.5	25.4
1/32	1/16	3/32	1/8	5/32	3/16	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2	17/32	9/16	19/32	5/8	21/32	11/16	23/32	3/4	25/32	13/16	27/32	7/8	29/32	15/16	31/32	1

STANDARD 230M Series

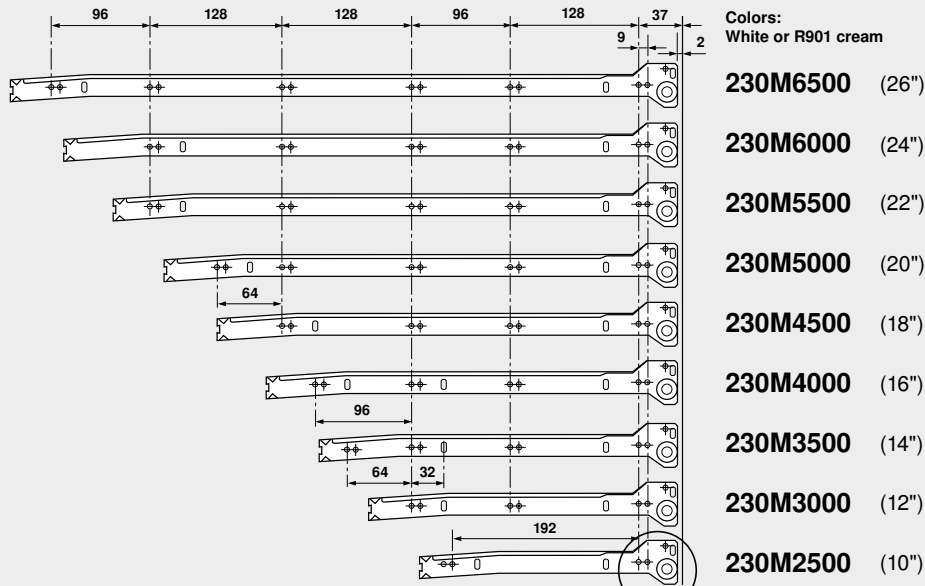
Bottom mounted single extension drawer runners

Specifications

Runner	Nominal Length	Frame Cabinet Interior Depth*		Minimum Panel Cabinet Interior Depth*	Suggested Drawer Length	Extension Loss**	Cabinet & Drawer Profile Length
	Inches	Maximum	Minimum				
230M6500	26"	714 (28 ⁵ / ₈ "	677 (26 ¹¹ / ₁₆ "	653 (25 ³ / ₄ "	650 (25 ⁵ / ₈ "	127 (4 ⁵ / ₁₆ "	650 (25 ⁵ / ₈ "
230M6000	24"	664 (26 ¹ / ₈ "	627 (24 ¹¹ / ₁₆ "	603 (23 ³ / ₄ "	600 (23 ⁵ / ₈ "	120 (4 ¹¹ / ₁₆ "	600 (23 ⁵ / ₈ "
230M5500	22"	614 (24 ³ / ₁₆ "	577 (22 ³ / ₄ "	553 (21 ¹³ / ₁₆ "	550 (21 ¹¹ / ₁₆ "	110 (4 ⁵ / ₁₆ "	550 (21 ¹¹ / ₁₆ "
230M5000	20"	564 (22 ³ / ₁₆ "	527 (20 ³ / ₄ "	503 (19 ¹³ / ₁₆ "	500 (19 ¹¹ / ₁₆ "	102 (4")	500 (19 ¹¹ / ₁₆ "
230M4500	18"	514 (20 ¹ / ₄ "	477 (18 ¹³ / ₁₆ "	453 (17 ⁷ / ₈ "	450 (17 ³ / ₄ "	95 (3 ³ / ₄ "	450 (17 ³ / ₄ "
230M4000	16"	464 (18 ¹ / ₄ "	427 (16 ¹³ / ₁₆ "	403 (15 ⁷ / ₈ "	400 (15 ³ / ₄ "	85 (3 ³ / ₈ "	400 (15 ³ / ₄ "
230M3500	14"	414 (16 ¹ / ₄ "	377 (14 ¹³ / ₁₆ "	353 (13 ⁷ / ₈ "	350 (13 ³ / ₄ "	85 (3 ³ / ₈ "	350 (13 ³ / ₄ "
230M3000	12"	364 (14 ⁵ / ₁₆ "	327 (12 ⁷ / ₈ "	303 (11 ¹⁵ / ₁₆ "	300 (11 ¹³ / ₁₆ "	85 (3 ³ / ₈ "	300 (11 ¹³ / ₁₆ "
230M2500	10"	314 (12 ⁵ / ₁₆ "	277 (10 ⁷ / ₈ "	253 (9 ¹⁵ / ₁₆ "	250 (9 ¹³ / ₁₆ "	59 (2 ⁵ / ₁₆ "	250 (9 ¹³ / ₁₆ "

* For overlay drawer fronts. Space requirements for inset drawers will vary according to front thickness. **A trial is recommended.**

** At suggested drawer length.



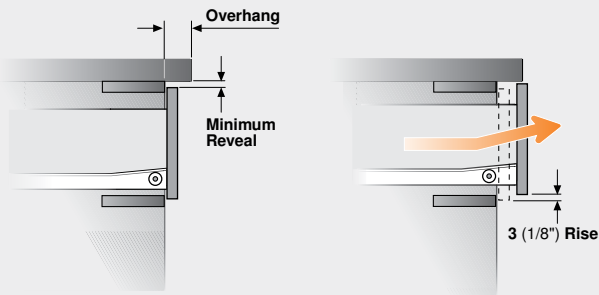
230M Rear Mount Socket



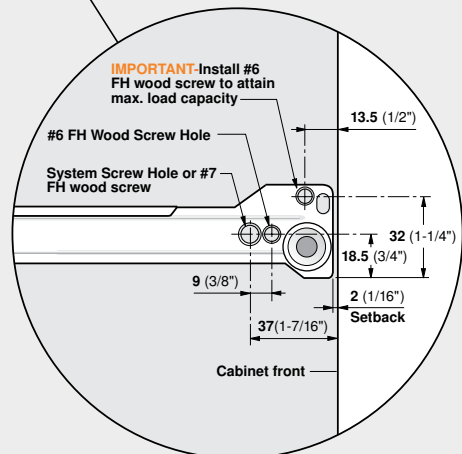
Part No.

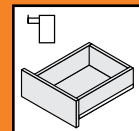
- 602320** L&R set
- 602300** RH socket
- 602301** LH socket

IMPORTANT: The Blumatic design lowers the drawer into the closed position. Consult the minimum reveal table to make sure the drawer front clears the countertop overhang when the drawer opens.



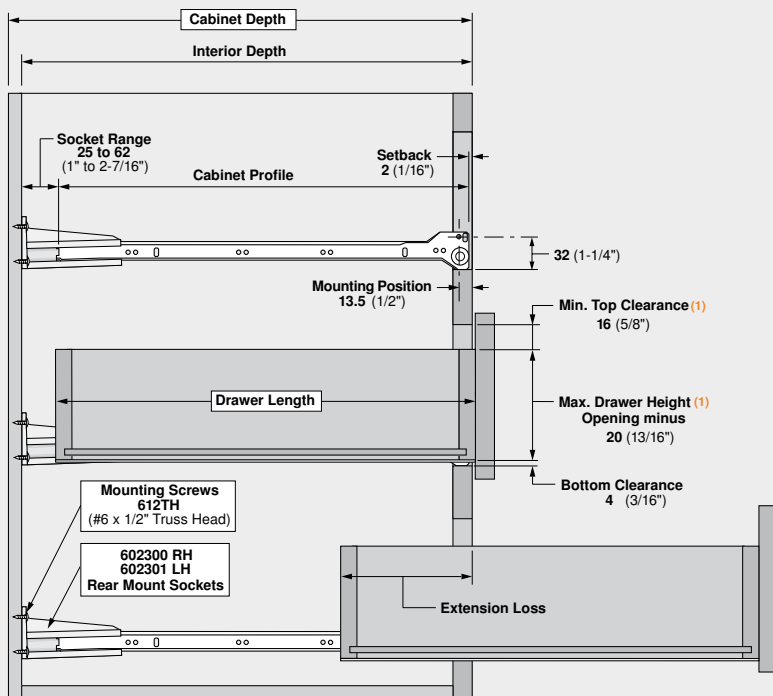
Overhang	16 (5/8")	32 (1 1/4")	48 (1 7/8")
Minimum Reveal	1 (1/32")	2 (3/32")	3 (1/8")



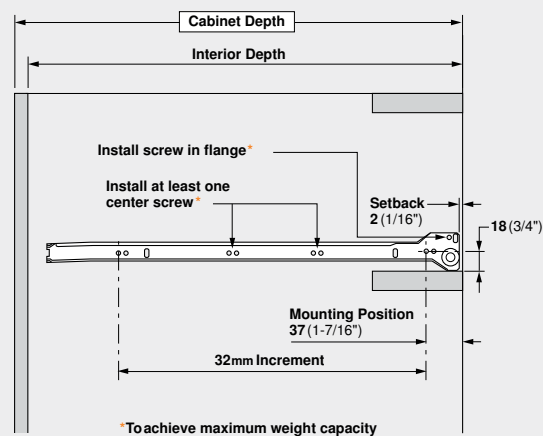


Drawer and cabinet specifications

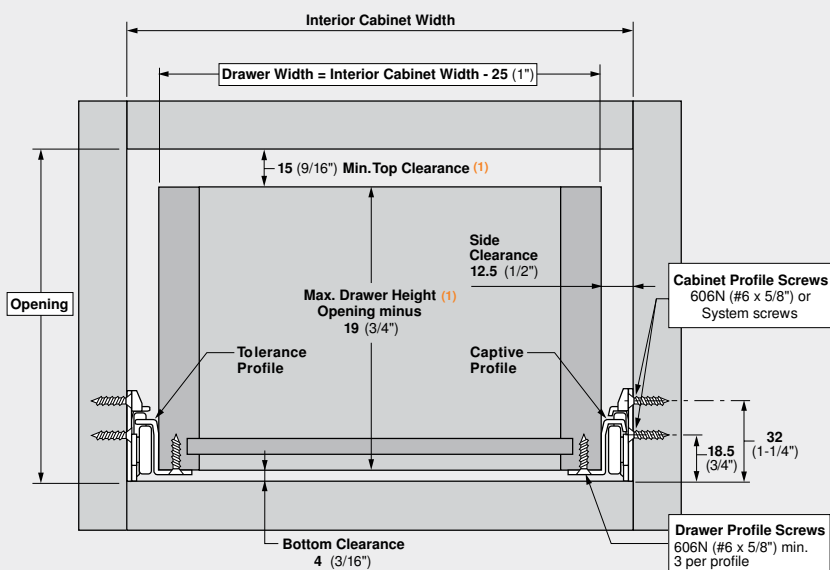
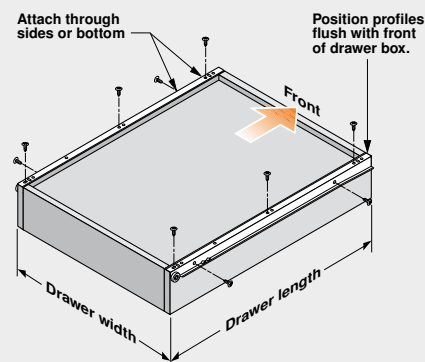
Frame Cabinet Installation



Panel Cabinet Installation

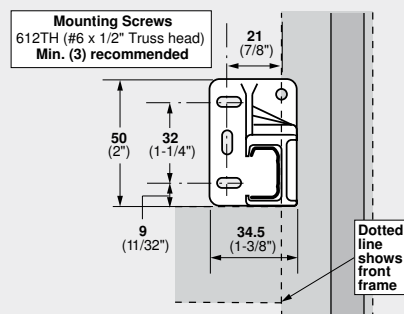


Drawer Profile Mounting



(1) Minimum top clearance and maximum drawer height when drawer is of recommended length and tilting to remove is not desired.

Rear Mount Socket Location



STANDARD 230E Series

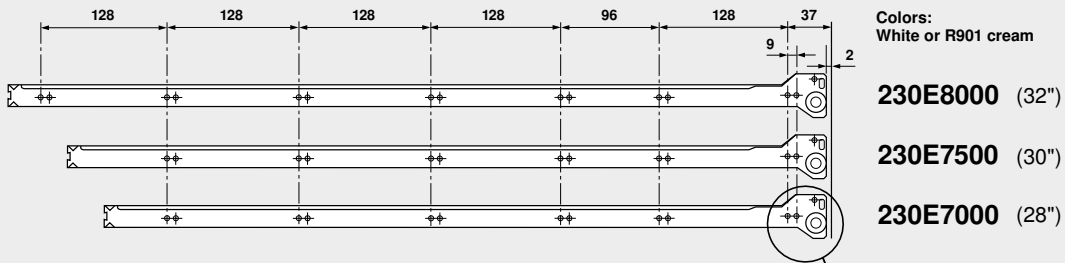
Bottom mounted single extension drawer runners

Specifications

Runner	Nominal Length Inches	Frame Cabinet Interior Depth*		Minimum Panel Cabinet Interior Depth*	Suggested Drawer Length	Extension Loss**	Cabinet & Drawer Profile Length
		Maximum	Minimum				
230E8000	32"	852 (33 9/16")	805 (31 3/4")	803 (31 1/8")	800 (31 1/2")	152 (6")	800 (31 1/2")
230E7500	30"	802 (31 9/16")	755 (29 3/4")	753 (29 5/8")	750 (29 1/2")	145 (5 23/32")	750 (29 1/2")
230E7000	28"	752 (29 9/16")	705 (27 3/4")	703 (27 11/16")	700 (27 9/16")	135 (5 5/16")	700 (27 9/16")

* For overlay drawer fronts. Space requirements for inset drawers will vary according to front thickness. A trial is recommended.

** At suggested drawer length.

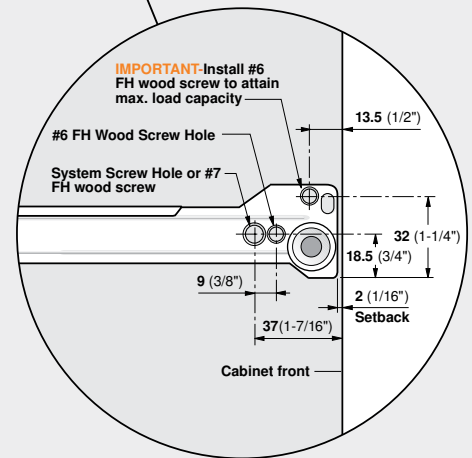


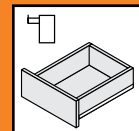
230E Rear Mount Socket



Part No.

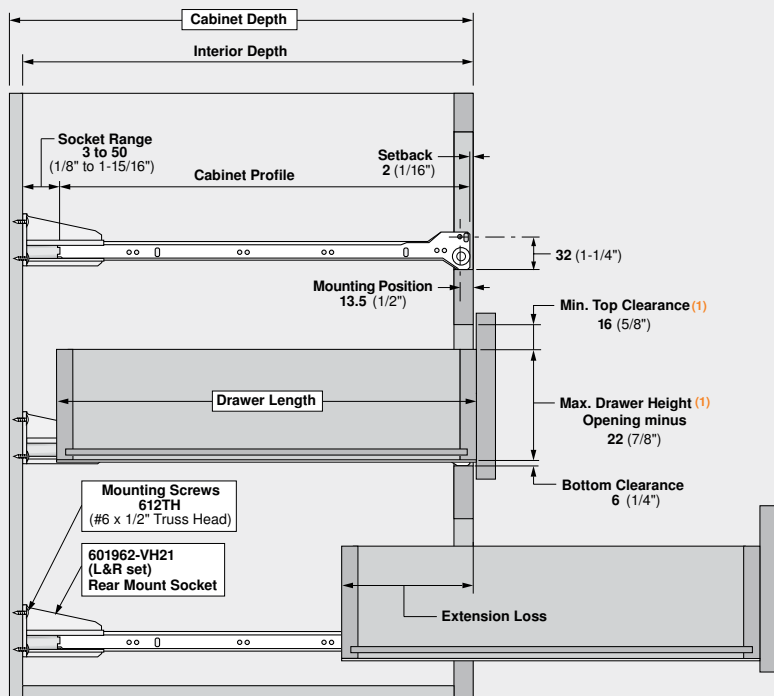
601962-VH21	L&R set
601960	RH socket
601961	LH socket



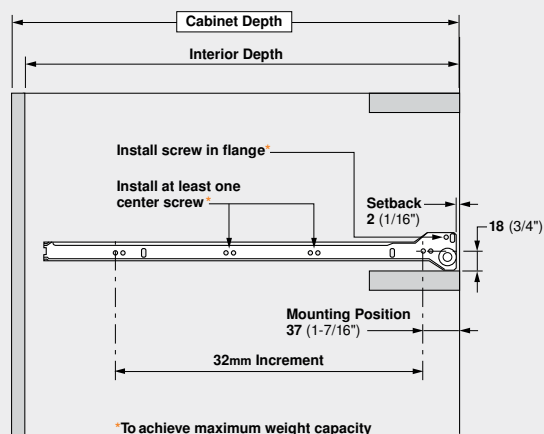


Drawer and cabinet specifications

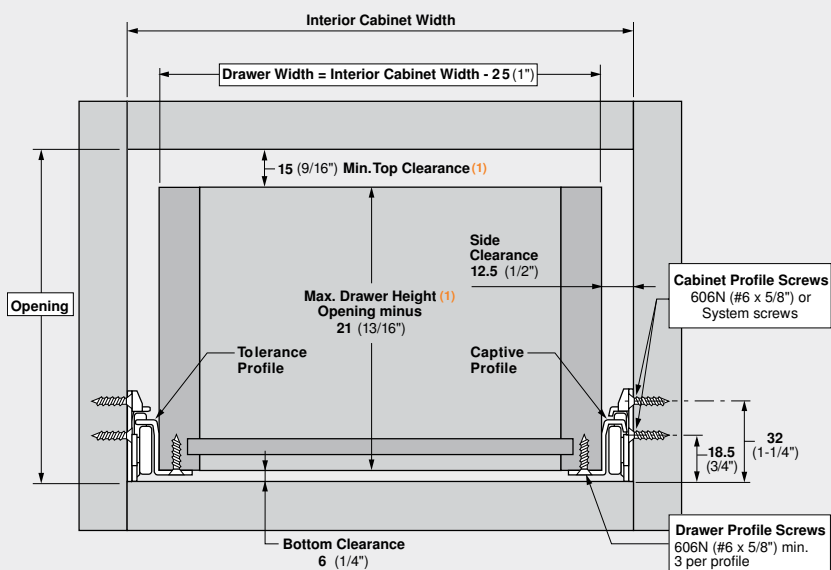
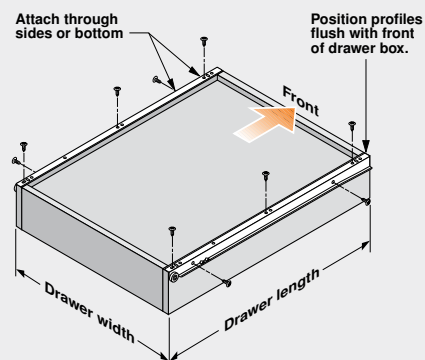
Frame Cabinet Installation



Panel Cabinet Installation

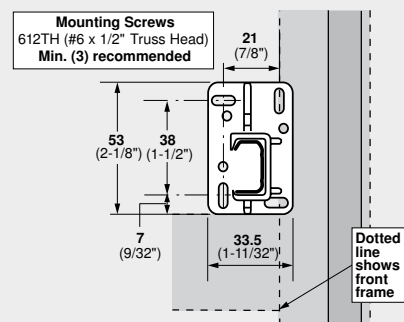


Drawer Profile Mounting



(1) Minimum top clearance and maximum drawer height when drawer is of recommended length and tilting to remove is not desired.

Rear Mount Socket Location

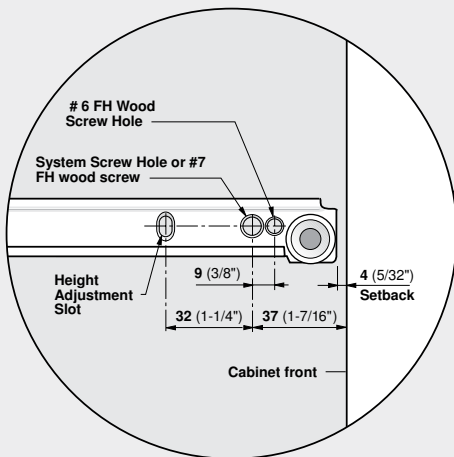
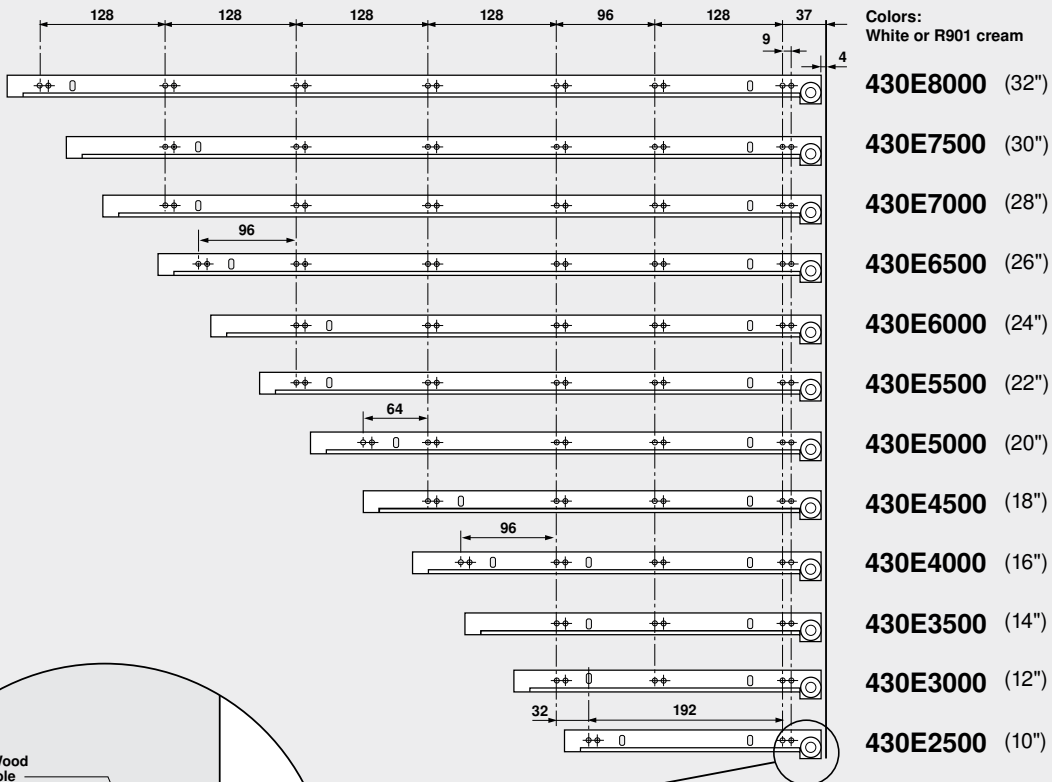


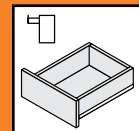
STANDARD 430E Series

Bottom mounted full extension drawer runners

Specifications

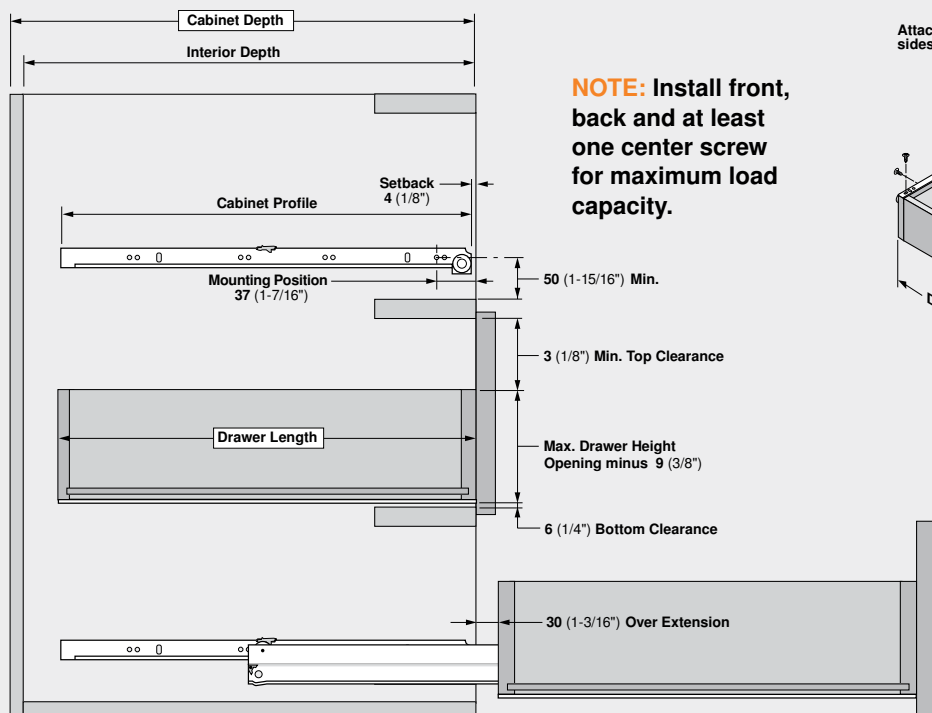
Runner	Nominal Length Inches	Minimum Interior Cabinet Depth	Suggested Drawer Length	Over Extension	Cabinet & Drawer Profile Length
430E8000	32"	803 (31 ⁵ / ₈ "	800 (31 ¹ / ₂ "	30 (1 ⁻³ / ₁₆ " At suggested drawer length	800 (31 ¹ / ₂ "
430E7500	30"	753 (29 ⁵ / ₈ "	750 (29 ¹ / ₂ "		750 (29 ¹ / ₂ "
430E7000	28"	703 (27 ¹¹ / ₁₆ "	700 (27 ⁹ / ₁₆ "		700 (27 ⁹ / ₁₆ "
430E6500	26"	653 (25 ³ / ₄ "	650 (25 ⁵ / ₈ "		650 (25 ⁵ / ₈ "
430E6000	24"	603 (23 ³ / ₄ "	600 (23 ⁵ / ₈ "		600 (23 ⁵ / ₈ "
430E5500	22"	553 (21 ¹³ / ₁₆ "	550 (21 ¹¹ / ₁₆ "		550 (21 ¹¹ / ₁₆ "
430E5000	20"	503 (19 ¹³ / ₁₆ "	500 (19 ¹¹ / ₁₆ "		500 (19 ¹¹ / ₁₆ "
430E4500	18"	453 (17 ⁷ / ₈ "	450 (17 ³ / ₄ "		450 (17 ³ / ₄ "
430E4000	16"	403 (15 ⁷ / ₈ "	400 (15 ³ / ₄ "		400 (15 ³ / ₄ "
430E3500	14"	353 (13 ⁷ / ₈ "	350 (13 ³ / ₄ "		350 (13 ³ / ₄ "
430E3000	12"	303 (11 ¹⁵ / ₁₆ "	300 (11 ¹³ / ₁₆ "		300 (11 ¹³ / ₁₆ "
430E2500	10"	253 (9 ¹⁵ / ₁₆ "	250 (9 ¹³ / ₁₆ "		250 (9 ¹³ / ₁₆ "





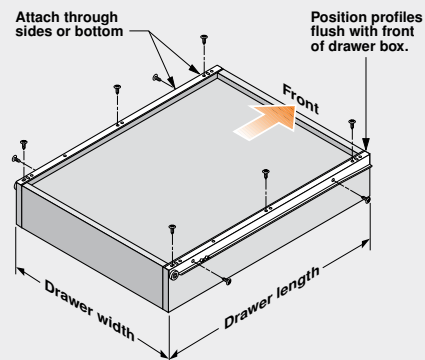
Drawer and cabinet specifications

Panel Cabinet Installation

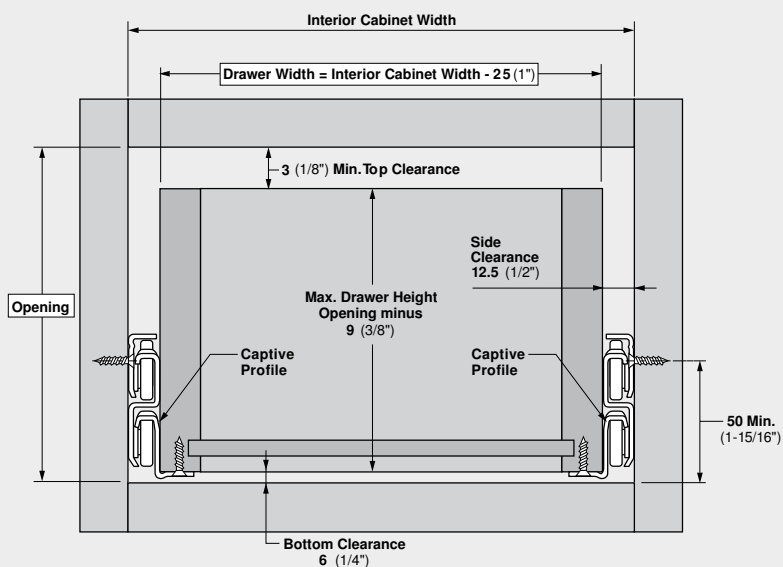


NOTE: Install front, back and at least one center screw for maximum load capacity.

Drawer Profile Mounting



NOTE: No rear mount sockets available for 430 series. For frame cabinets, block out under cabinet profiles.

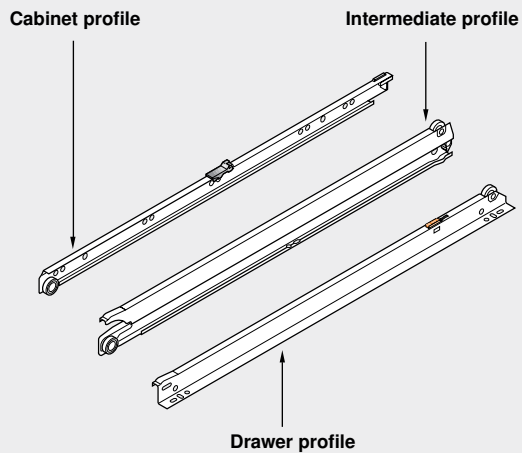


See page 10 for profile installation

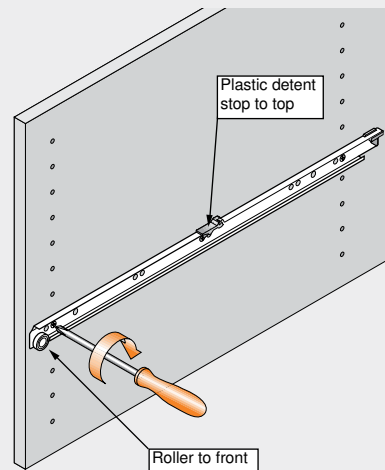
STANDARD 430E Series

Assembly of bottom mounted full extension drawer runners

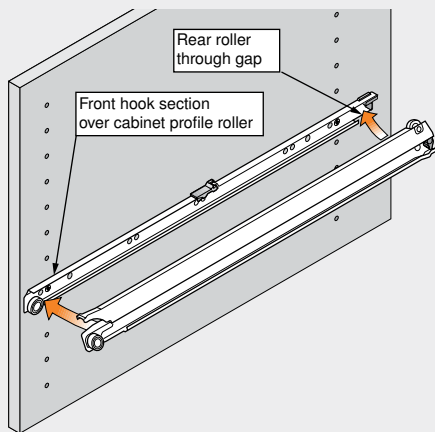
Cabinet and drawer profile assembly



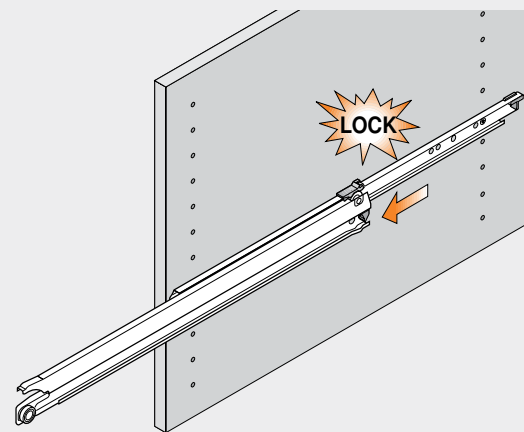
430E Series Profiles (LH)



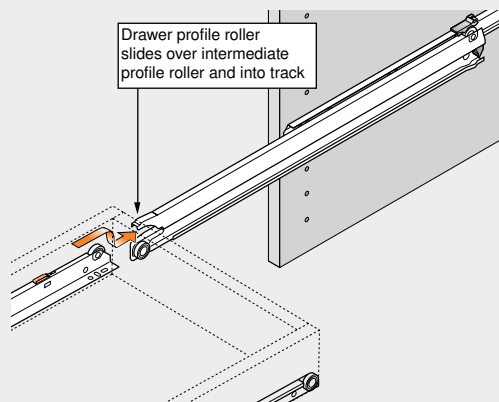
1. Mount cabinet profile to side panel



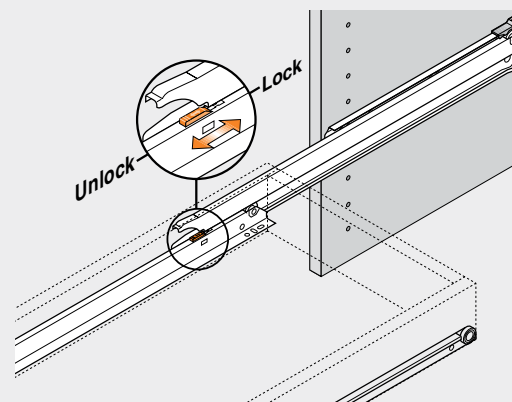
2. Install intermediate profile



3. Slide intermediate profile to lock into position



4. Install drawer profile



5. Engage drawer removal lock

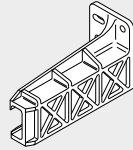


Rear mount sockets for 230M and 230E runners in frame cabinets

Synthetic, neutral color

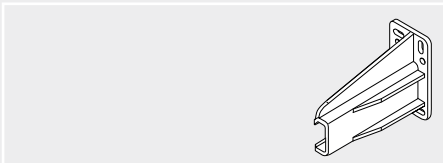
Attach with Blum 612TH screws, #6 x 1/2" trusshead

Cannot be used with 430 full extension series



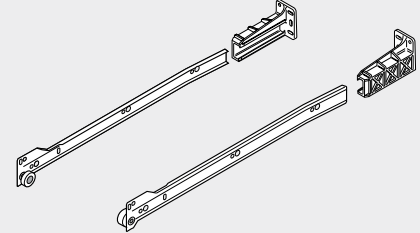
Part No.

230M RH & LH Socket Set	602320
230M RH	602300
230M LH	602301



Part No.

230E RH & LH Socket Set	601962-VH21
230E RH	601960
230E LH	601961



Cabinet profile spacers

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

Two thicknesses available that can be stacked up to 24 (15/16")

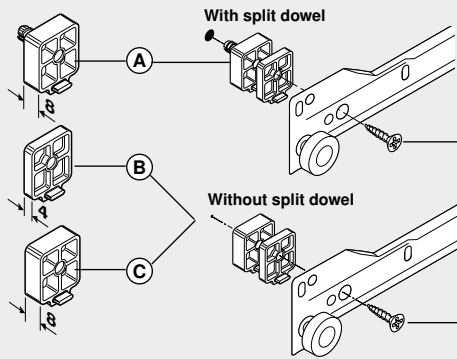
Synthetic, neutral color

Part No.

(A) 8 (5/16") with Ø5 (3/16") x 11 dowel for linebore mounting	320M0188
(B) 4 (5/32") stackable	320M0048
(C) 8 (5/16") stackable	320M0088

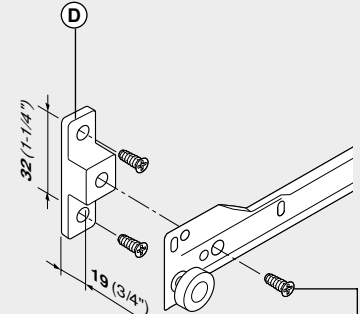
Heavy duty spacer
Synthetic, neutral color

(D) 32 (1-1/4") x 19 (3/4")	602750
-----------------------------	--------



Use #6 FH screw that penetrates cabinet side at least 13 (1/2")

Heavy duty spacer



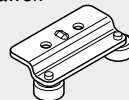
Use 3 deep thread system screws to attach runner to spacer and spacer to cabinet side

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

Door protectors

For pull-out surrounds to prevent damage to doors.

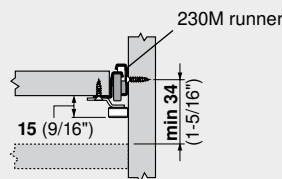
Fixed to the underside of the drawer. For 230M and 430E runners. Symmetrical. Epoxy coated steel, with synthetic rollers, cream color.



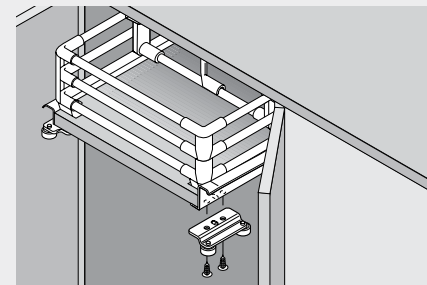
Part No.

Door protector	298.2200
----------------	----------

Space requirements



Assembly



Screws and bumpers

Deep thread wood screws
Nickel plated

Part No.

#6 x 5/8", #2 Phillips	606N
#6 x 5/8", #2 POZI	606P

Part No.

Zinc plated	612TH
#6 x 1/2", #2 Phillips	612TH

Deep thread system screws
Pilot bore Ø5 (3/16") hole
Nickel plated



Part No.

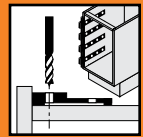
11.5 (7/16"), #2 POZI	661.1150
13 (1/2"), #2 POZI	661.1300

Drawer bumper stops
Cushions drawer closing
Self-adhesive back, clear



Part No.

6 (1/4") dia. x 1.5 (1/16") thk.	FX4041
10 (3/8") dia. x 3 (1/8") thk.	SJ5312

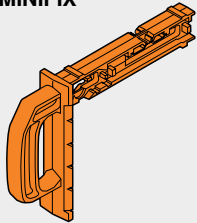


MINIFIX

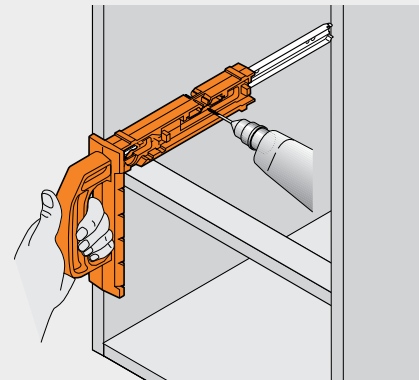
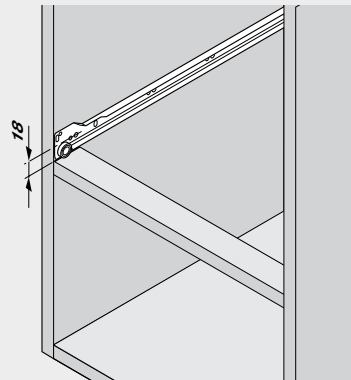
For precise positioning of cabinet profile fixing screws.

For 230M and 230E runners

MINIFIX



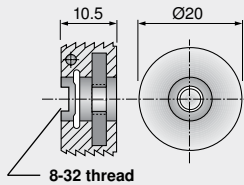
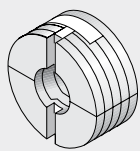
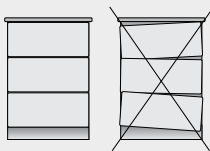
Part No.
65.3300



Drawer front adjusters and marking gauge

Drawer front adjuster

Nylon housing with pre-mounted 8-32 steel nut. For 4-sided drawers. Adjusts height and side-to-side by 5 (3/16").



Part No.

Drawer front adjuster **295.1000**

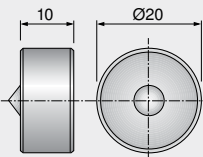
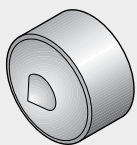
MINIPRESS Ram **MZM.0095**

Ø20 rt handed drill bit **M01.ZB20.02 RH**

Marking gauge

For marking center holes for knock-in drawer front adjusters, 295.1000.

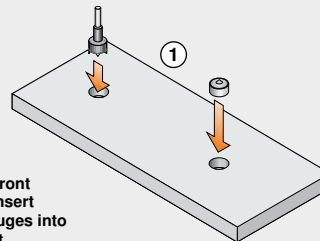
For wooden 4-sided drawers.



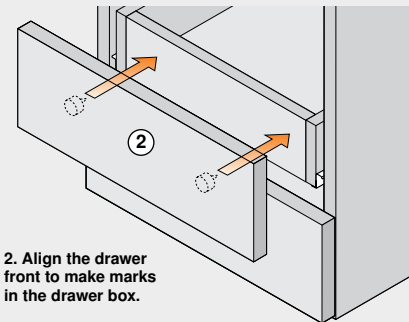
Part No.

Marking gauge **65.2950**

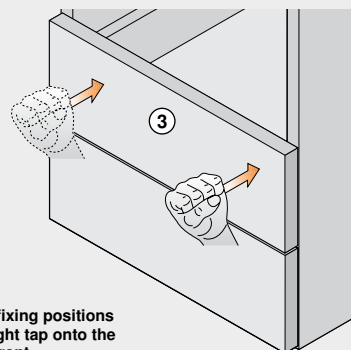
Installation of drawer front adjuster using marking gauges



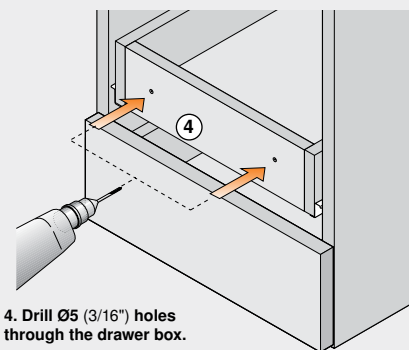
1. Bore for front adjusters. Insert marking gauges into drawer front.



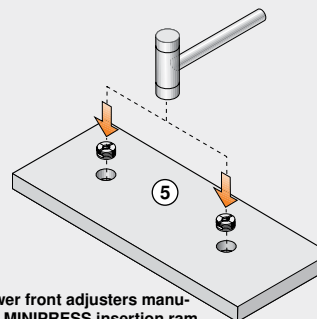
2. Align the drawer front to make marks in the drawer box.



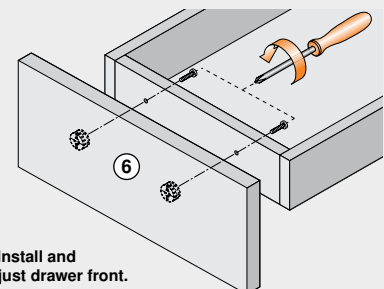
3. Mark fixing positions with a light tap onto the drawer front.



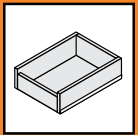
4. Drill Ø5 (3/16) holes through the drawer box.



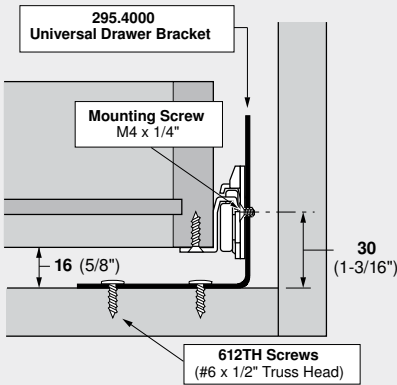
5. Insert drawer front adjusters manually or with a MINIPRESS insertion ram (MZM.0095)



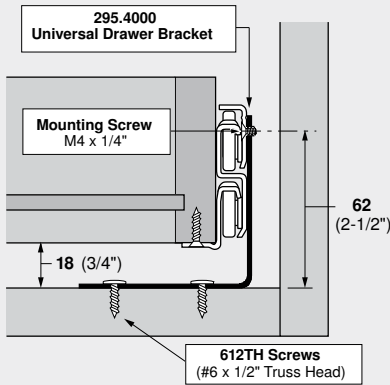
6. Install and adjust drawer front.



Standard Series with roll-out tray mounted to Blum Universal Drawer Brackets



Roll-out tray with 230M runner



Roll-out tray with 430E runner

For mounting Blum runners to the floor of a cabinet (roll-out tray).

Attach to cabinet with Blum 612TH screws, (#6 x 1/2" trusshead)

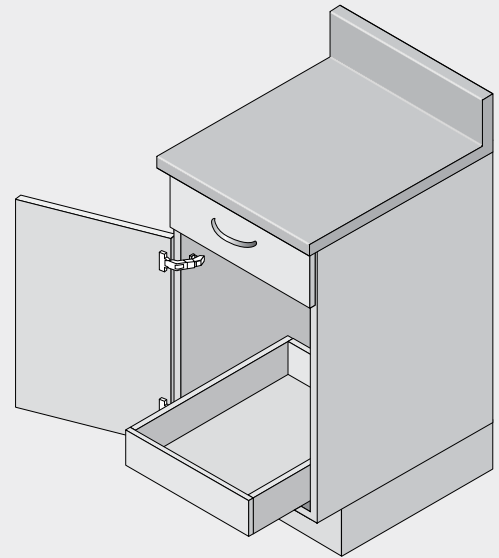
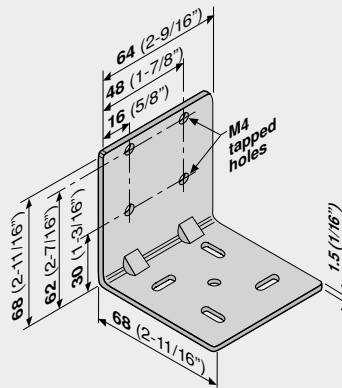
Zinc coated

(4) per set with M4 screws

Universal bracket kit

Part No.

295.4000



POZI screwdriver and bits – a critical tool in full torque application

A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum adjustment screws.

POZI screws can be identified by the distinctive "tick" marks located in the center of the screwhead recess.

Hand screwdriver
#2 POZI DRIVER

Part No.

POZI DRIVER

1/4" Hex drive
for power drivers
Magnetic bit holder

Part No.

BIT HOLDER

#2 x 1 x 1/4"
POZI drive insert

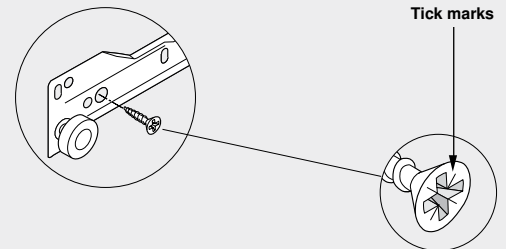
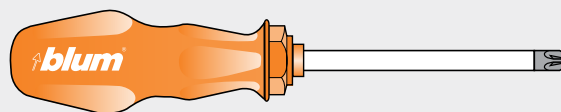
Part No.

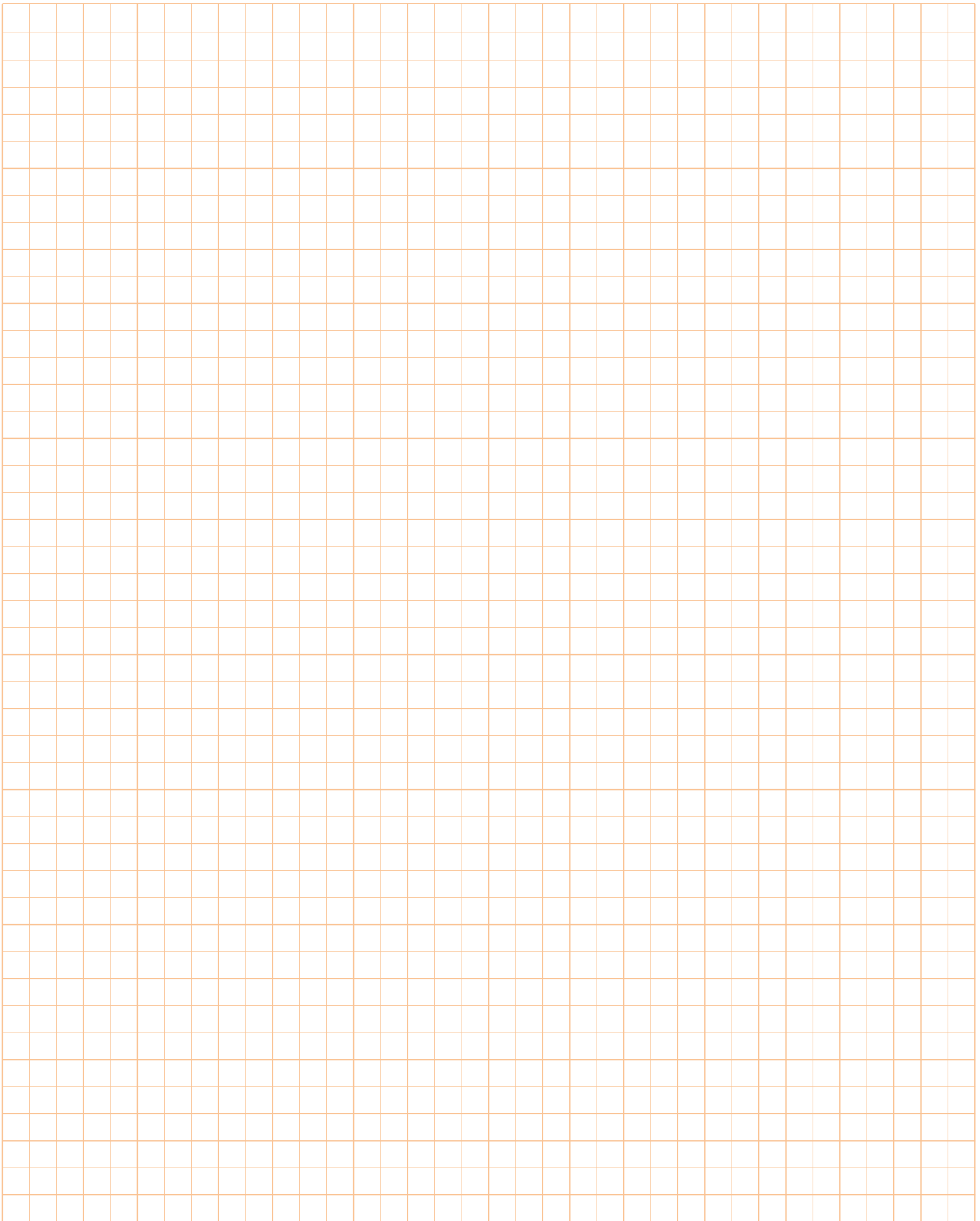
POZI BIT #2x1

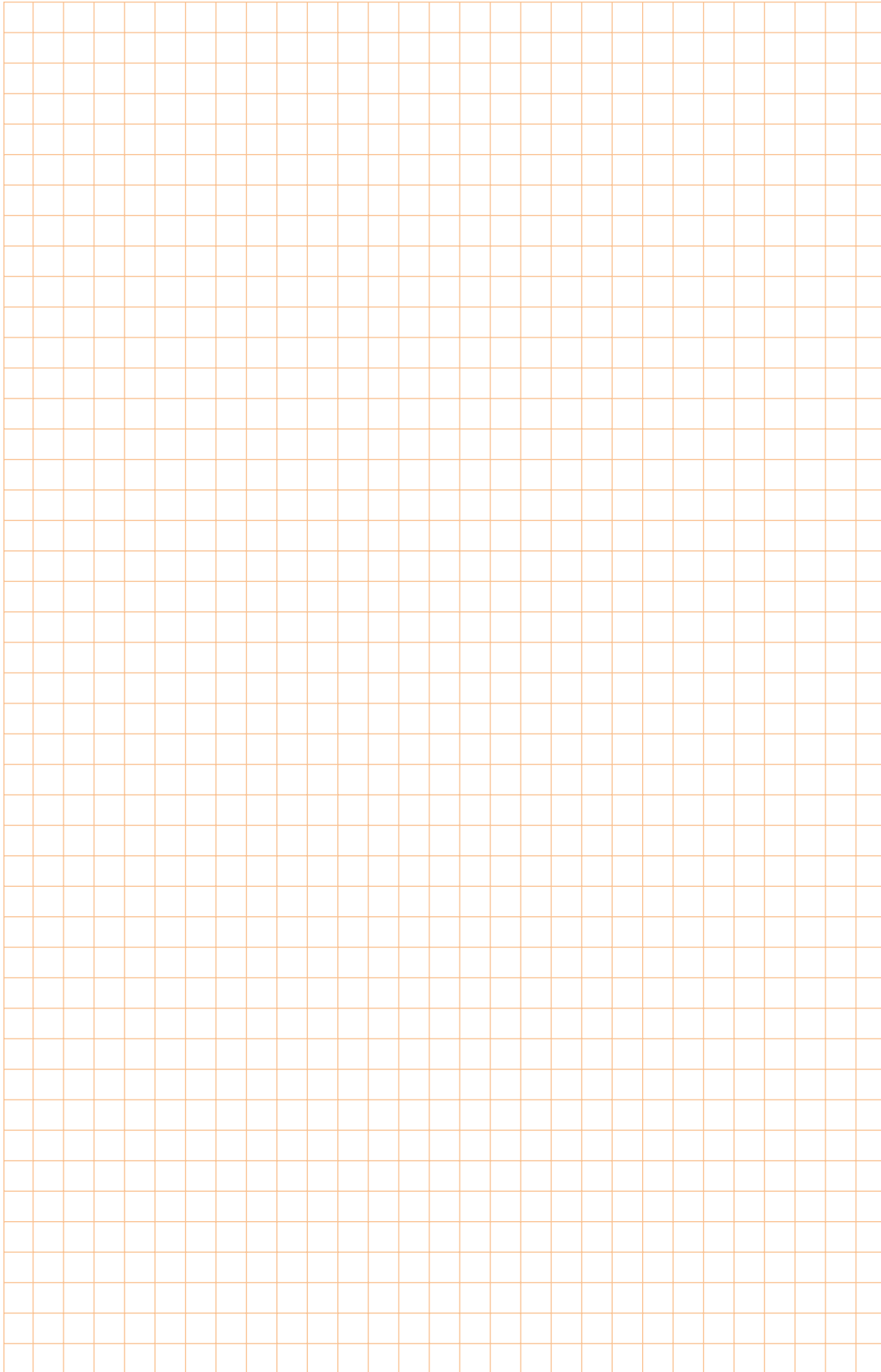
#2 x 2 x 1/4"
POZI drive insert

Part No.

POZI BIT #2x2







Conversion Chart		
Inch		mm
1/32	.031	1
1/16	.063	1.5
3/32	.094	2
1/8	.125	3
5/32	.156	4
3/16	.188	5
7/32	.219	5.5
1/4	.25	6
9/32	.281	7
5/16	.313	8
11/32	.344	9
3/8	.375	9.5
13/32	.406	10
7/16	.438	11
15/32	.469	12
1/2	.5	13
17/32	.531	13.5
9/16	.563	14
19/32	.594	15
5/8	.625	16
21/32	.656	17
11/16	.688	17.5
23/32	.719	18
3/4	.75	19
25/32	.781	20
13/16	.813	20.5
27/32	.844	21
7/8	.875	22
29/32	.906	23
15/16	.938	24
31/32	.969	24.5
1	1	25.4

Information is also available on these other Blum products:

- AVENTOS lift systems
- Blum Concealed hinges: CLIP top, CLIP, MODUL, and COMPACT
- BLUMOTION for doors
- DYNAMIC SPACE
- Machine and assembly aids
- METABOX drawer system
- ORGA-LINE organization system
- POCKET DOOR hardware
- STANDARD drawer runners
- SOLO concealed runners
- TANDEM concealed runners
- TANDEMBOX drawer system

Blum, Inc.
7733 Old Plank Rd.
Stanley, NC 28164
toll free 800-438-6788
local 704-827-1345
fax 704-827-0799
internet www.blum.com
www.dynamicspace.us

