TANDEM plus BLUMOTION 563H/563. installation instructions

BLUMOTION inside

Full extension concealed drawer runners

Basic components	Locking devices	Runners	Rear attachment options
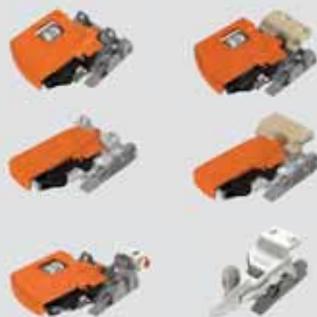
New side adjustment

1 Rotate side adjustment left or right equally on both locking devices. Drawer front moves in the same direction as rotation.

drawer front

R
R L
L

0
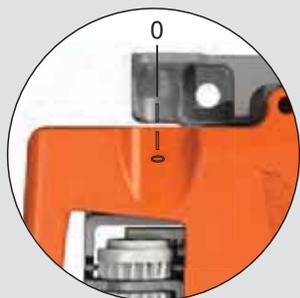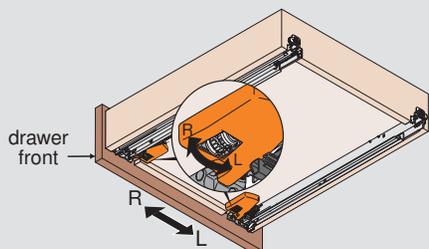
Maximum **1.5** (1/16") to left or right on both front and rear (tool-free)

NOTE: Side adjustment not available on T51.x8xx locking devices

New rear side adjustment

2 After front side adjustment is made with the locking devices, rotate the rear side adjustment left or right to re-align the back of the drawer box with the front. Drawer back moves in the same direction as rotation.

0

R
L

L R
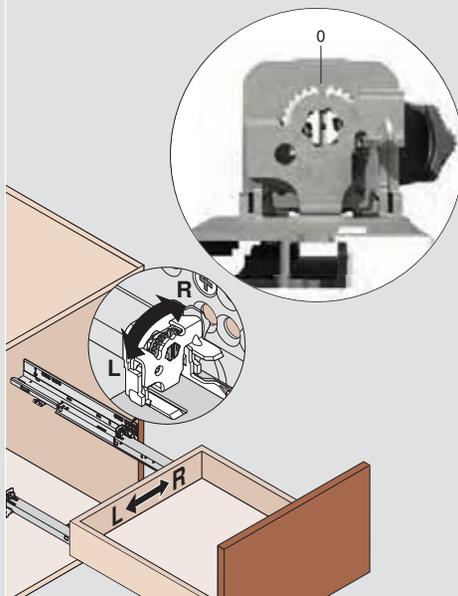
Height adjustment

1 Press up on adjustment tab
2 Push towards back of drawer
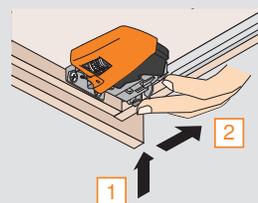
Maximum **3** (1/8") rise of drawer front (tool-free)

NOTE: Height and tilt adjustments available with all combinations of locking devices and runners

Tilt adjustment

Rotate the tilt adjustment lever on the rear of each runner to lift the back of the drawer and tilt the top of the drawer front forward.
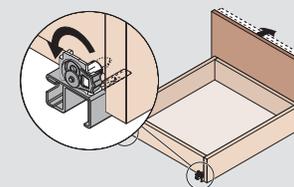
Maximum **5** (3/16") rise of drawer back (tool-free)

New depth adjustable locking device

Locking device

T51.1901.PS

with side, height and depth adjustment
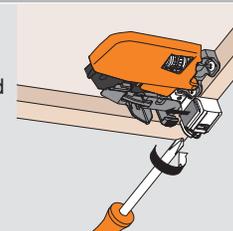
Turning the adjustment screw allows for up to a +**2.5** (3/32") out adjustment

NOTE: For T51.1901.PS setback in inset applications, see page 5

Depth adjustment on runner

TANDEM 563 runners feature elongated holes that allow ±**4.5** (3/16") depth adjustment

| **Dimensions in millimeters** (inch equivalents as noted)   © 2013 Blum, Inc.

Subject to technical modifications without notice.   **blum**
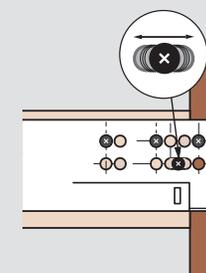
Drawer specifications

Face frame and panel cabinet applications

Front view

opening width

inside drawer width = opening width minus 42

6 (1/4") minimum top clearance

#6 head wood or system screws

21 (13/16")

drawer side thickness maximum **16** (5/8")

13 (1/2")

37 (1-15/32")

drawer height maximum = opening minus **20** (25/32")

opening height

14 (9/16") bottom clearance
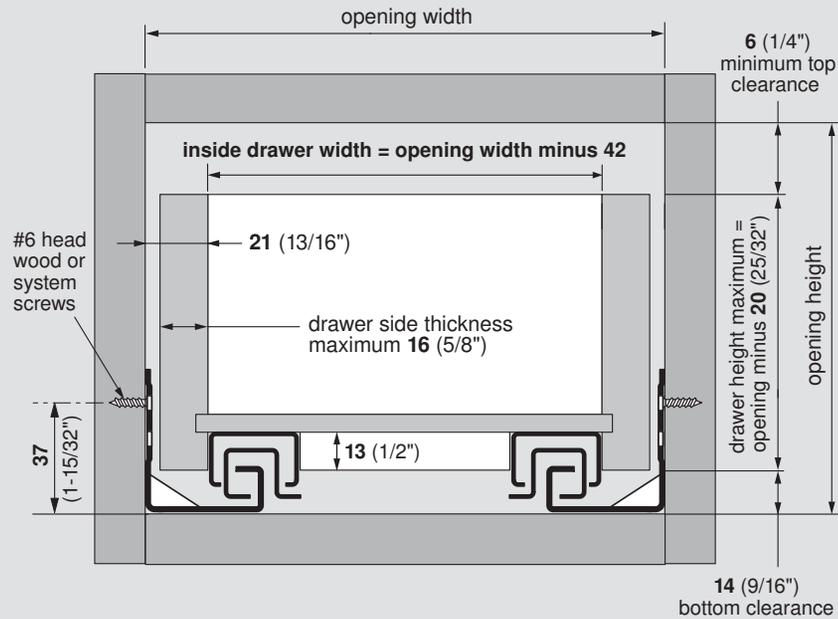
NOTE: Because material thickness may vary, **the inside drawer width must equal opening width minus 42 for TANDEM to align and function properly**

Preparing for hardware installation

Locking device
T51.1901 with side adjustment or
T51.1801 without side adjustment

Installation screw
606N or 606P

75°

pre-boring holes for locking devices

2.5 mm bit with extension chuck

pre-boring holes for rear hooks

6 mm bit with stop collar

TANDEM template
T65.1600.01
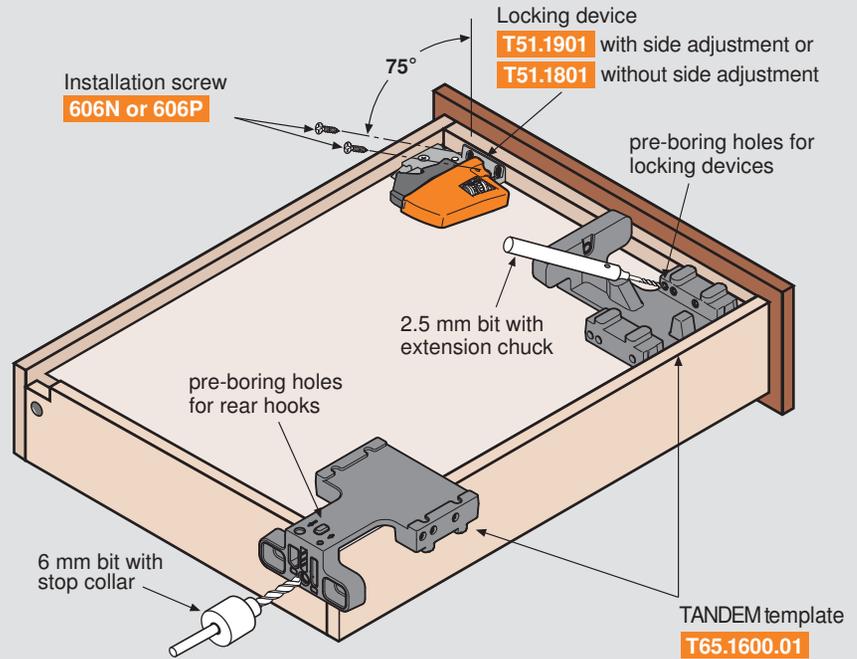
NOTE: Use of the T65.1600.01 TANDEM template is essential for accurate location and angle of pre-bored locking device holes and accurate boring for rear hook holes

Drawer insertion

Extend the drawer runners fully. Place the drawer on the runners and close.
The locking devices automatically engage with the runners.
Make adjustments if necessary.

Drawer removal

1 Squeeze orange handles on locking devices
2 Pull drawer straight out and up

1

2

Runner mounting specifications

Side view

inside cabinet depth range
557 to **599** (21-15/16" to 23-19/32")

mounting position **10** (13/32")

610 (24") cabinet

563H5330B
533 (21") drawer

setback **3** (1/8")

rear bracket

557 (21-15/16") minimum

610 (24") cabinet

563.5330B
533 (21") drawer

blocking for frame applications

480 to **522** (18-29/32" to 20-9/16")

533 (21") cabinet

563H4570B
457 (18") drawer

480 (18-29/32") minimum

533 (21") cabinet

563.4570B
457 (18") drawer

blocking for frame applications

404 to **446** (15-29/32" to 17-9/16")

457 (18") cabinet

563H3810B
381 (15") drawer

328 to **370** (12-29/32" to 14-9/16")

381 (15") cabinet

563H3050B
305 (12") drawer

305 (12") cabinet

*see below

563H2290B10
229 (9") drawer

detail of front holes

32 (1-1/4")
34 (1-11/32")
9 (11/32") typical
7 (9/32")
37 (1-15/32")
25 (31/32")

*bracket	maximum depth	minimum depth
295.3700.21	**282** (11-3/32")	**266** (10-15/32")
295.3700.22	**299** (11-25/32")	**283** (11-5/32")

NOTE: *These brackets are for 563H2290B10 only

NOTE: Orange dots indicate screw locations required to meet specified load capacities

Cabinet and drawer specifications

Side view

cabinet depth

inside cabinet depth

bracket range
6 to **48**
(1/4" to 1-7/8")

runner length

cabinet face

mounting position **10** (13/32")

37 (1-15/32")

setback **3** (1/8")

25 (31/32")

minimum top clearance **6** (1/4")

drawer length

maximum drawer height =
opening minus
20 (25/32")

bottom clearance **14** (9/16")

drawer gap **1.5** (1/16")

mounting screws
606N or 606P
(#6 x 5/8" wood screw)

rear mount bracket
295.3750.01

drawer thickness

bottom recess **13** (1/2")
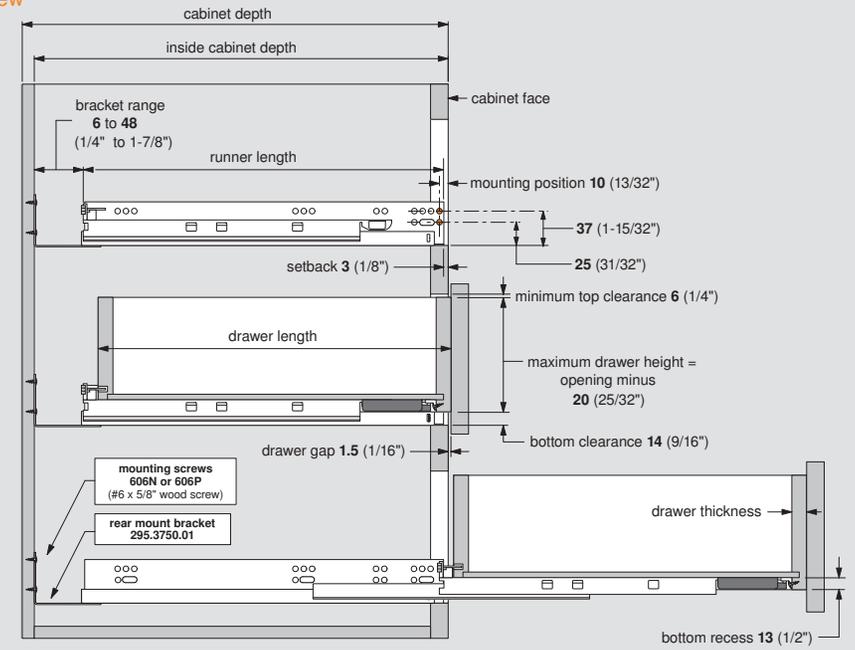
TANDEM plus BLUMOTION	cabinet depth	inside cabinet depth		drawer length	maximum drawer thickness	runner length
		maximum	minimum			
563H5330B	**610** (24")	**599** (23-19/32")	**557** (21-15/16")	**533** (21")		**548** (21-9/16")
563.5330B	**610** (24")	—	**557** (21-15/16")	**533** (21")		**548** (21-9/16")
563H4570B	**533** (21")	**522** (20-9/16")	**480** (18-29/32")	**457** (18")		**471** (18-17/32")
563.4570B	**533** (21")	—	**480** (18-29/32")	**457** (18")	**16** (5/8")	**471** (18-17/32")
563H3810B	**457** (18")	**446** (17-9/16")	**404** (15-29/32")	**381** (15")		**395** (15-9/16")
563H3050B	**381** (15")	**370** (14-9/16")	**328** (12-29/32")	**305** (12")		**319** (12-9/16")
563H2290B10	**305** (12")	**299** (11-25/32")	**266** (10-15/32")	**229** (9")		**259** (10-3/16")

NOTE: For 563. series runners rear brackets and sockets cannot be used. Cabinet sides must be blocked-out flush with the inside of the frame.

T51.1901R	Locking device with side adjustment (right)	295.3750.01	Rear mounting bracket, non-handed
T51.1901L	Locking device with side adjustment (left)	295.3700.21	563H2290B10 rear bracket, non-handed
T51.1801R	Locking device (right)	295.3700.22	563H2290B10 rear bracket, non-handed
T51.1801L	Locking device (left)		
606N or 606P	#6 Wood screw (for mounting runner to cabinet side, rear brackets and locking devices)		

Runner mounting specifications

Side view

mounting position **37** (1-15/32")

cabinet face

610 (24") cabinet

256 (10-3/32") | **224** (8-13/16")

563H5330B
533 (21") drawer

18 (23/32") typical

setback **3** (1/8")

557 (21-15/16") minimum

610 (24") cabinet

224 (8-13/16")

563.5330B
533 (21") drawer

557 (21-15/16") minimum

533 (21") cabinet

192 (7-9/16") | **224** (8-13/16")

563H4570B
457 (18") drawer

480 (18-29/32") minimum

533 (21") cabinet

224 (8-13/16")

563.4570B
457 (18") drawer

480 (18-29/32") minimum

457 (18") cabinet

192 (7-9/16") | **128** (5-1/32")

563H3810B
381 (15") drawer

404 (15-29/32") minimum

381 (15") cabinet

96 (3-25/32") | **128** (5-1/32")

563H3050B
305 (12") drawer

328 (12-29/32") minimum

detail of front holes

32 (1-1/4")
34 (1-11/32")
9 (11/32") typical
7 (9/32")

305 (12") cabinet

96 (3-25/32"), **96** (3-25/32")

563H2290B10
229 (9") drawer

266 (10-15/32") minimum

37 (1-15/32")
25 (31/32")

NOTE: Orange dots indicate screw locations required to meet specified load capacities

Cabinet and drawer specifications

Side view

cabinet depth

inside cabinet depth

cabinet face

runner length

mounting position **37** (1-15/32")

37 (1-15/32")

setback **3** (1/8")

25 (31/32")

minimum top clearance **6** (1/4")

drawer length

maximum drawer height = opening minus **20** (25/32")

drawer gap **1.5** (1/16")

bottom clearance **14** (9/16")

drawer thickness

bottom recess **13** (1/2")

| TANDEM plus BLUMOTION	cabinet depth	minimum inside cabinet depth	drawer length	maximum drawer thickness	runner length
563H5330B	610 (24")	557 (21-15/16")	533 (21")		548 (21-9/16")
563.5330B	610 (24")	557 (21-15/16")	533 (21")		548 (21-9/16")
563H4570B	533 (21")	480 (18-29/32")	457 (18")		471 (18-17/32")
563.4570B	533 (21")	480 (18-29/32")	457 (18")	16 (5/8")	471 (18-17/32")
563H3810B	457 (18")	404 (15-29/32")	381 (15")		395 (15-9/16")
563H3050B	381 (15")	328 (12-29/32")	305 (12")		319 (12-9/16")
563H2290B10	305 (12")	266 (10-15/32")	229 (9")		259 (10-3/16")

|	
T51.1901R	Locking device with side adjustment (right)
T51.1901L	Locking device with side adjustment (left)
T51.1801R	Locking device (right)
T51.1801L	Locking device (left)
606N or 606P	#6 Wood screw (for mounting runner to cabinet side, rear brackets and locking devices)
662.1150.HG	#6 System screw (for mounting runner to cabinet side)

Inset application

Face frame application — complete blockout

Side view

runner setback (see table)
Trial recommended

blocking behind frame

inside cabinet depth

minimum = runner length + setback + **6** (1/4")
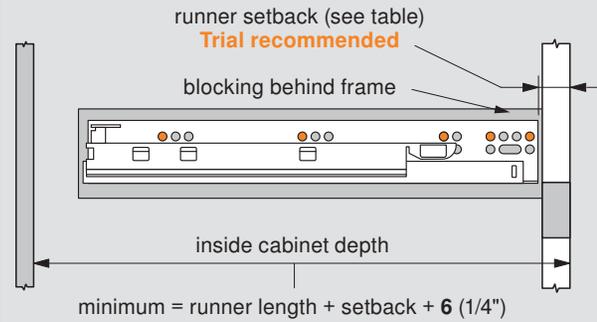
Face frame application — partial blockout

Side view

runner setback (see table)
Trial recommended

blocking behind frame

inside cabinet depth range

minimum = runner length + setback + **6** (1/4")

maximum with bracket =
runner length + setback + **48** (1-7/8")
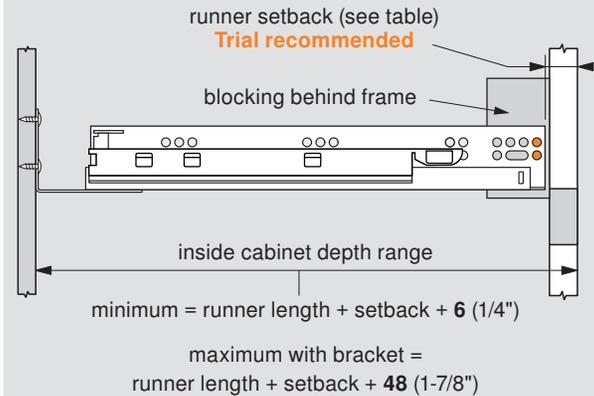
Panel application

Side view

runner setback (see table)
Trial recommended

inside cabinet depth range

minimum = runner length + setback + **6** (1/4")
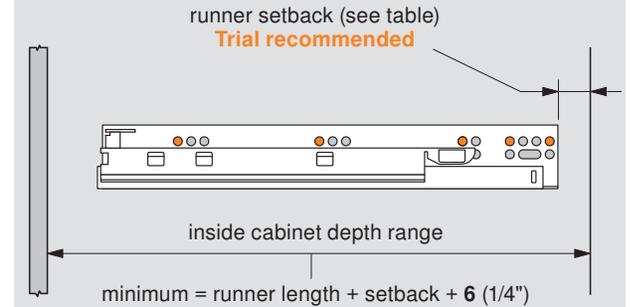
Setback information

Side view

drawer front

runner setback

drawer sub-front

NOTE: Runner cannot be mounted below opening

mounting hole position
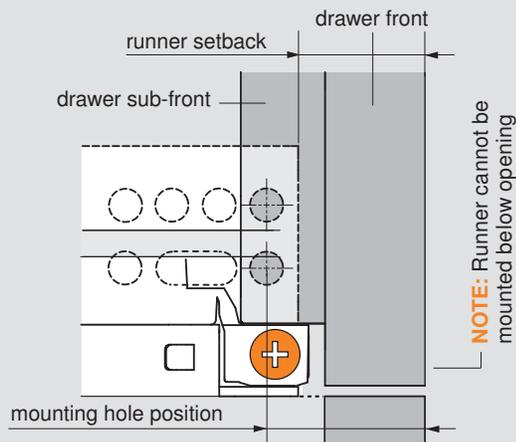
NOTE: For mounting hole position add **7** (9/32") to runner setback

Runner setback when using depth adjustable locking device (T51.1901.PS)

563/569 H/.	runner setback		
sub-front thickness **13** (1/2")	**20** (25/32")	**23** (29/32")	**26** (1-1/32")
sub-front thickness **16** (5/8")	**23** (29/32")	**26** (1-1/32")	**29** (1-5/32")
sub-front thickness **19** (3/4")	**26** (1-1/32")	**29** (1-5/32")	**32** (1-1/4")
	16 (5/8")	**19** (3/4")	**22** (7/8")
	drawer front thickness		
calculating runner setback	563/569 H/. sub-front thickness + drawer front thickness minus **9** (11/32")		

- Setbacks in this table recess the face of the drawer front inside of the cabinet **1** (1/32")
- The depth adjustment can then be used to move the drawer front out to its desired position, **2.5** (3/32") out adjustment only

Runner setback when using all other locking devices

563/569 H/.	runner setback		
sub-front thickness **13** (1/2")	**17.5** (11/16")	**20.5** (13/16")	**23.5** (15/16")
sub-front thickness **16** (5/8")	**20.5** (13/16")	**23.5** (15/16")	**26.5** (1-1/32")
sub-front thickness **19** (3/4")	**23.5** (15/16")	**26.5** (1-1/32")	**29.5** (1-5/32")
	16 (5/8")	**19** (3/4")	**22** (7/8")
	drawer front thickness		
calculating runner setback	563/569 H/. sub-front thickness + drawer front thickness minus **11.5** (7/16")		

- Setbacks in this table set the face of the drawer front flush with the face of the cabinet
- If a depth adjustable locking device is needed, please see the locking device and table above

Dimensions in millimeters (inch equivalents as noted)   © 2013 Blum, Inc.

Subject to technical modifications without notice.   **blum**

Attachment specifications

Rear attachment options for face frame applications

295.3750.01 **rear mounting bracket**, non-handed

21 (13/16")
32 (1-1/4")
16 (5/8")
2 (3/32")
14 (9/16")
12 (15/32")
face frame stile
face frame rail
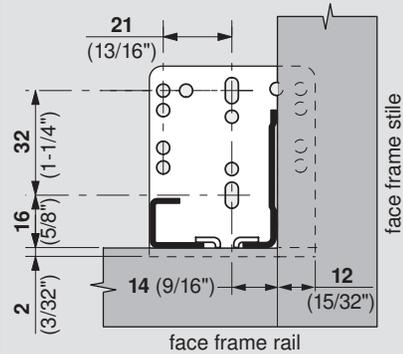
295.3700.2x **for 563H2290B10**, non-handed

39.5 (1-9/16")
32 (1-1/4")
17.5 (11/16")
4 (5/32")
16 (5/8")
5 (3/16")
face frame stile
face frame rail
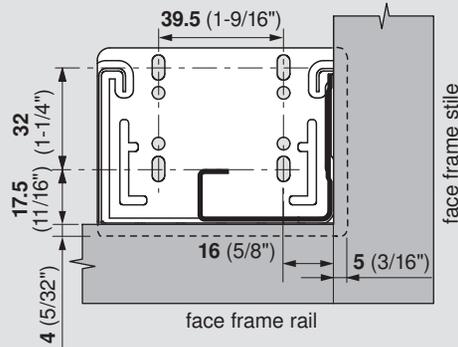
295.6410 **Plug-in socket,** non handed

9 (11/32")
Ø8
32 (1-1/4")
3.2 (1/8")
16 (5/8")
face frame stile
face frame rail
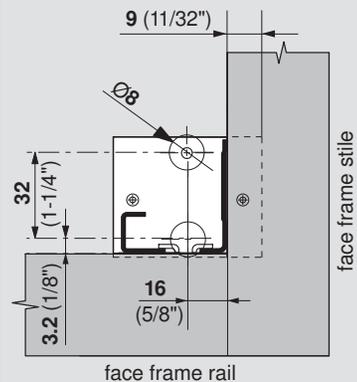
295.6400 **Screw-on socket,** non handed

9 (11/32")
37 (1-15/32")
40 (1-9/16")
2 (3/32")
19 (3/4")
6.5 (1/4")
face frame stile
face frame rail
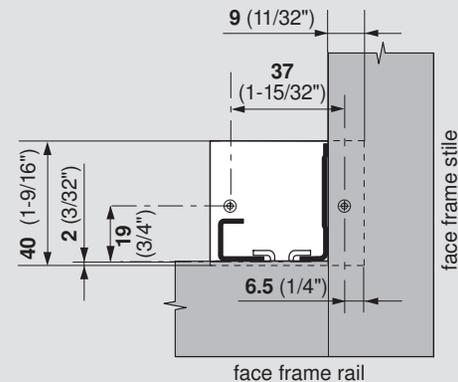
NOTE: Use at least three 606N or 606P installation screws for 295.3750.01 or 295.3700.2x

Depth adjustment specifications

Side view

B
A
20.5 (13/16")
setback

TANDEM plus BLUMOTION	A	B
563H5330B	**244.5** (9-5/8")	**500.5** (19-23/32")
563.5330B	**244.5** (9-5/8")	—
563H4570B	**244.5** (9-5/8")	**436.5** (17-3/16")
563.4570B	**244.5** (9-5/8")	—
563H3810B	**148.5** (5-27/32")	**340.5** (13-13/32")
563H3050B	**148.5** (5-27/32")	**244.5** (9-5/8")
563H2290B10	**116.5** (4-19/32")	**212.5** (8-3/8")
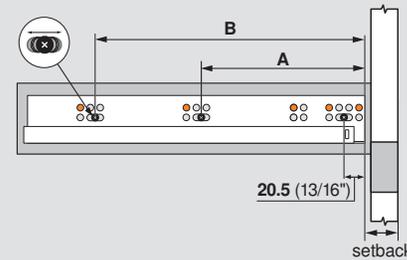
Mount each runner using at least two of the elongated holes. Install the drawer to check the position of the drawer front.

Remove the drawer, loosen screws and make adjustments if necessary, ±**4.5** (3/16"). Tighten the screws, verify the drawer front position and finish mounting the runners using the screw locations indicated by the orange dots.

Bottom mounting specifications

Top view

X
9 (11/32")
9 (11/32")
67 (2-5/8")
Z
Y
3 (1/8")
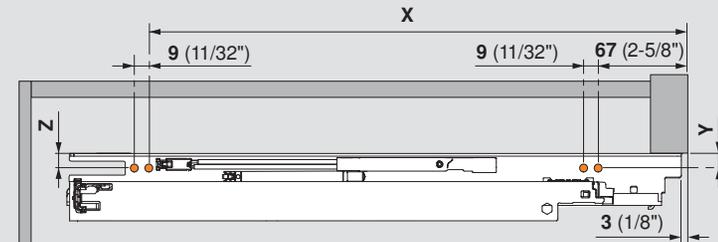
TANDEM plus BLUMOTION	drawer length	minimum inside cabinet depth	X	Y	Z
563H5330B	**533** (21")	**557** (21-15/16")	**448** (17-5/8")	**12** (15/32")	**19** (3/4")
563.5330B	**533** (21")	**557** (21-15/16")	**358** (14-3/32")	**12** (15/32")	**19** (3/4")
563H4570B	**457** (18")	**480** (18-29/32")	**378** (14-7/8")	**12** (15/32")	**19** (3/4")
563.4570B	**457** (18")	**480** (18-29/32")	**358** (14-3/32")	**12** (15/32")	**19** (3/4")
563H3810B	**381** (15")	**404** (15-29/32")	**319** (12-9/16")	**12** (15/32")	**19** (3/4")

Millimeter to inch conversion chart

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

Dimensions in millimeters (inch equivalents as noted)   © 2013 Blum, Inc.   INST-TDM563H-563. 07.13   Subject to technical modifications without notice.   **blum**