



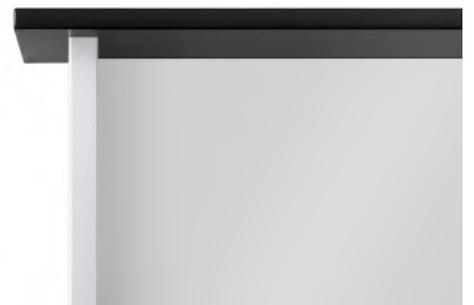
VIONARO

G* GRASS

G* GRASS®

VIONARO DRAWER SYSTEM

The slim line drawer system manufactured of top quality material combines with the Dynapro slide system. Functional technology meets perfect form.







The simple clean design of Vionaro brings truth to the statement, “Less is More.”

Maximum reduction means using the least possible to make the most possible.

Whether it is in the kitchen, the bath, or the living room the concise shape, slim design, and top quality material of the Vionaro drawer makes your cabinetry classic. The perfectly designed drawer sides are formed from a single piece of high quality steel using cutting-edge laser technology.

Vionaro side heights are available in 89mm, 121mm, 185mm, and 249mm in White, Graphite, and Silver Grey. Front panels for inset drawers are offered in 89mm and 185mm heights. For deep drawer organization, the Tavinea Optima is a simple and flexible system of dividers that can be cut to your drawer width and divider profiles that snap right in.

Vionaro is cleverly attached to the Dynapro undermount drawer systems so it offers everything the Dynapro has: high load capacity, synchronized movement, low pull-out force, and 4-dimensional adjustment. Previously the Dynapro was used with wood drawers but now it is a multi-functional drawer system that is ideal for modern cabinetry.

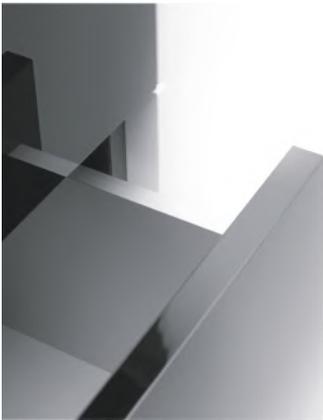
For a handle-free opening the Vionaro works with Sensomatic, Grass' electro-mechanical opening system. Tipmatic Soft-close and Tipmatic are push-to-open mechanisms. All three systems require a light touch any where on the drawer front for the drawer to open automatically.

With GRASS' Soft-closing system, each drawer is pulled closed with a soft and gentle motion.



VIONARO DRAWER SYSTEM

Classic. Clean. Concealed.
Vionaro, the new generation of double-wall drawers, combines with Dynapro for a system so advanced, yet stylish.



reddot award 2014
winner

Design, attention to detail, precise movement, and quality – virtually no other drawer system achieves such a perfect form.

When you open the innovative Vionaro drawer you will find a slim-line designer inspired drawer. Sides of just 13mm (1/2") made from materials of the highest quality offer a drawer with the ultimate in storage space design.

The Vionaro drawer sides rest on top of the proven Dynapro concealed slide system turning Dynapro into a multi-functional system. This combination results in a complete drawer system

that meets the highest design aspirations. Vionaro now has everything that Dynapro has: a full extension concealed slide with outstanding running performance, a high load carrying capacity and a low pull-out force.

Vionaro becomes the complete drawer system for modern cabinetry. Vionaro features a strong connection to the drawer front offering height, tilt, and side adjustment on the drawer sides and depth adjustment from the drawer slide. The soft-close action brings the Vionaro drawer to a gentle quiet close.

With the addition of Sensomatic, the electronic opening system, or Tipmatic Soft-close and Tipmatic push to open mechanisms, it becomes possible to create large, handle-free drawers that open with a gentle push on the front.

Vionaro is the proud winner of the 2014 reddot award judged on functionality, innovation, quality and ecological compatibility. Vionaro – functional technology with perfect form.

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	Dynapro 16 with Optional 3-Dimensional Adjustment <ul style="list-style-type: none"> • Face frame or frameless • Integrated Soft-close, full extension • For Vionaro or 16mm (5/8") material 	Front locking device selection provides: <ul style="list-style-type: none"> • Height adjustment (max +3.5mm) • Depth adjustment (max +4.5mm)(optional) 	26
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Features and Benefits

Vionaro

Features



- 90° straight corners and sides
- Slim 13mm (1/2") width side
- Integrated height and side adjustment, tilt adjustment at back
- Tool-free assembly
- Works exclusively with Dynapro
- Maximum drawer width 48"
- For frame and frameless cabinetry

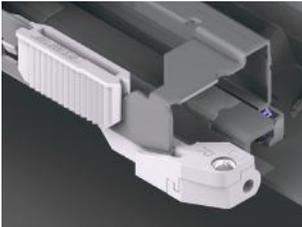
Dowel attachment
for fixing bracket
(10mm Ø)

Side Adjustment
±1.5mm

Front panel release

Height adjustment
+2.5mm / -1.5mm

4D depth adjustment
optional add-on



Cleats on the slide

connect immediately with front locking device at installation for maximum connection between the drawer slide and front locking device.

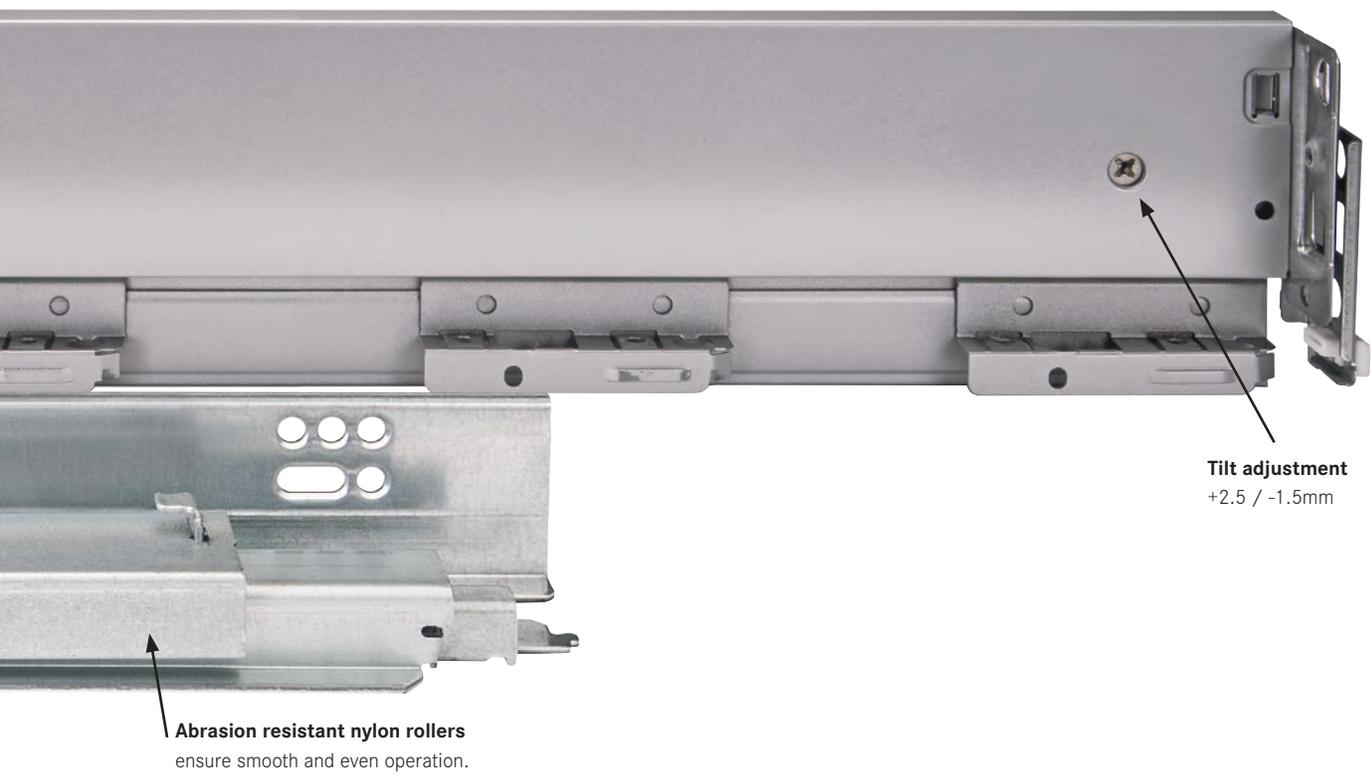
Dynapro's synchronization allows drawers to move quietly and without any resistance. Even under a load capacity of up to 100 pounds the exceptional running performance remains unchanged.

Features and Benefits

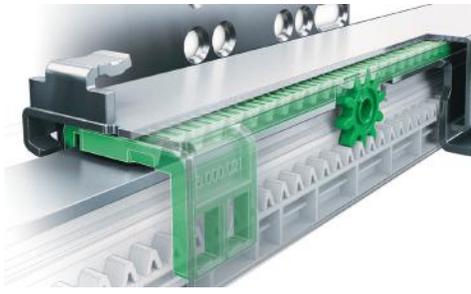
Dynapro

Features

- Wear resistant nylon rollers ensure quiet and precise running characteristics
- Easy to open with a low pull out force
- Support roller for uniform drawer front height
- 100 lb dynamic load for Dynapro Standard
- 132 lb dynamic load for Dynapro Heavy Duty
- Dynapro slide is interchangeable with Vionaro and wood drawers
- Full Extension with Soft-closing action
- Integrated liquid damper offers the latest closing technology
- For drawers up to 48" wide



Tipmatic Soft-close
for handle-free drawers



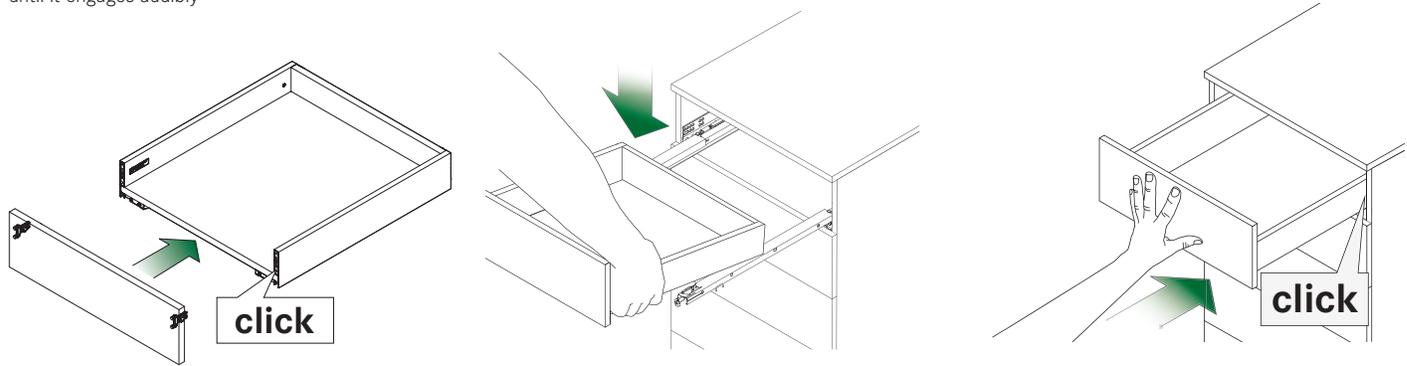
Synchronization
for smooth, silent operation, excellent running performance

Technical Information

Vionaro

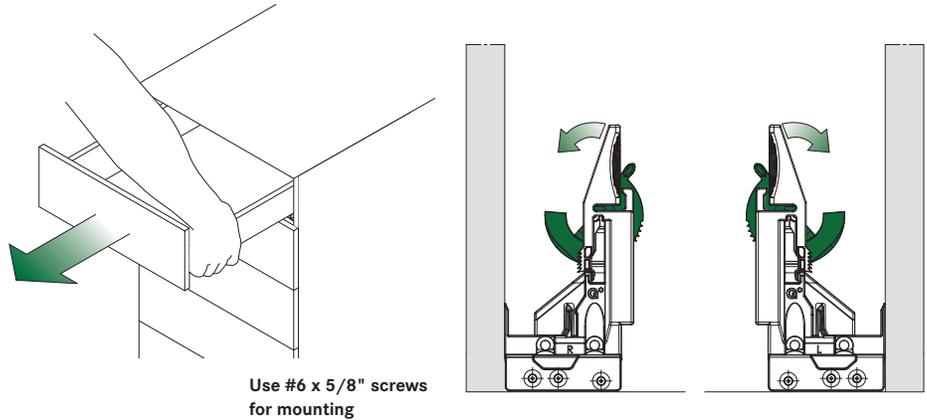
Attaching Drawer Front and Inserting Drawer

Place drawer on extended Dynapro slide and push in until it engages audibly



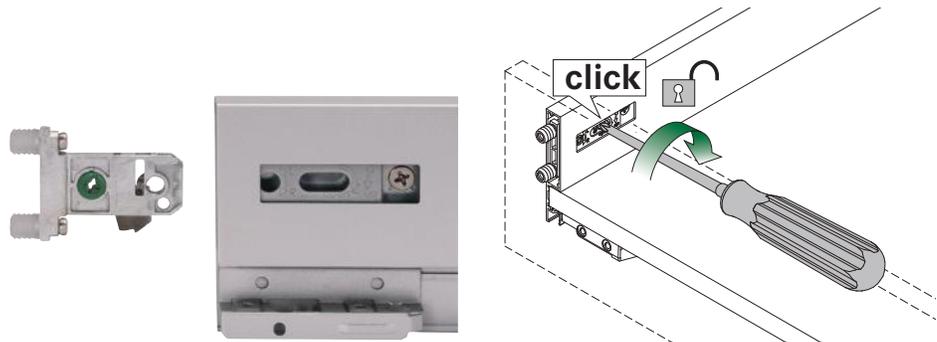
Removing the Drawer

Pull the drawer out, squeeze the locking device levers and lift drawer from the slide.



Removing the Drawer Front

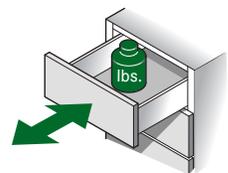
Use a pozidrive #2 screwdriver to release and on all adjustments.



Weight Capacities per Pair of Slides

Dynapro and Tipmatic: 100 lb dynamic load rating, 100 lb static load rating
Dynapro Heavy Duty: 132 lb dynamic load rating, 150 lb static load rating

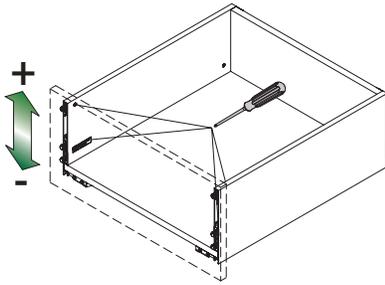
Dynapro meets and exceeds the minimum requirements of ANSI/BHMA A156.9 Standard, Grade 1
Tested in frameless cabinetry using a minimum of 4 mounting screws



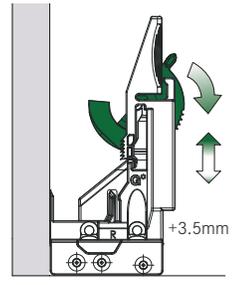
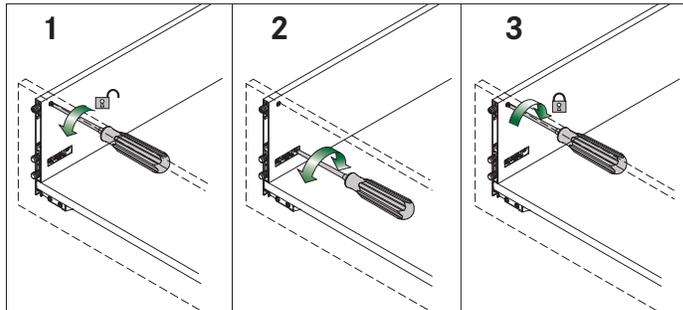
Height Adjustment (max +2.5 / -1.5mm)

Vionaro

Dynapro Front Locking Device



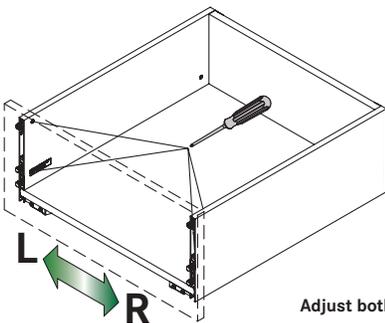
Adjust both sides



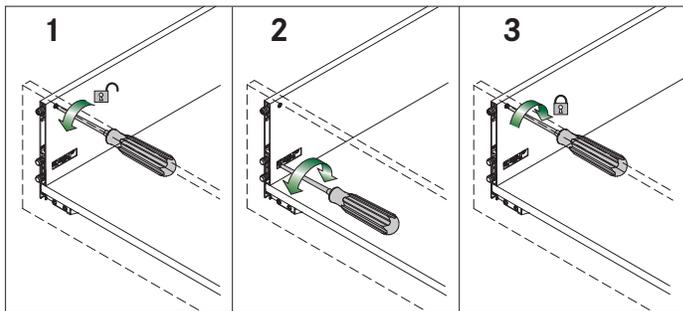
Front locking device with flange

Side Adjustment (max ±1.5mm)

Vionaro

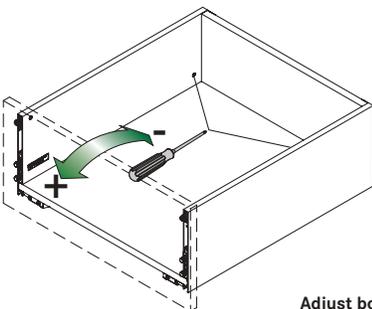


Adjust both sides

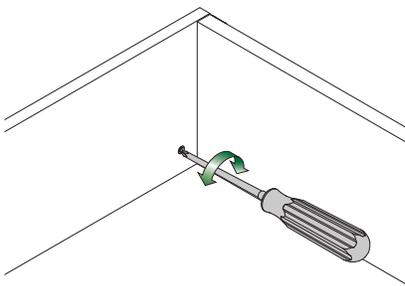


Tilt Adjustment (max +2.5 / -1.5mm)

Vionaro



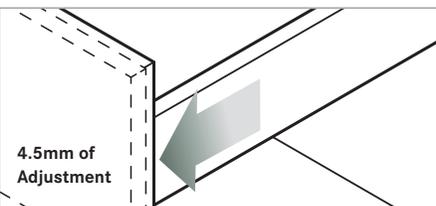
Adjust both sides



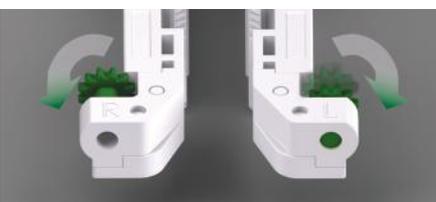
Depth Adjustment (+4.5mm forward)

Depth Adjustment Installation

Rear Adapter Set Installation



Adjustment Adjust left and right adjustment screws simultaneously in opposite directions



Removal **Insertion**

Press in on tab with screwdriver. Rotate and remove fitting.

Insert depth fitting and rotate to lock. Fitting tab snaps into place.

① Removal



② Insertion



Screwdriver is required for removal of the standard fitting.



Adapter is required when using 3D adjustable Dynapro. Position rear adapters at the back of each Vionaro drawer side as shown.

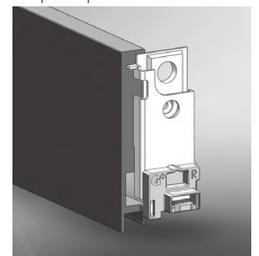
Step 1
Align with bottom hole.



Step 2
Push into opening.



Step 3
Snap into place.



Vionaro H89, 89mm (3 1/2") side height

13mm slimline drawer for Dynapro 16



- Cubist design with 90° angles
- Slimline 13mm (1/2") side width
- 3-dimensional adjustment
- Integrated side and height adjustment, tilt angle adjustment at back
- Plus and minus adjustments for Vionaro sides
- Bottom panel is cut to size without notching
- Tool-free front assembly
- For frame and frameless cabinetry
- Compatible with Dynapro 16 with 2D or 3D adjustment

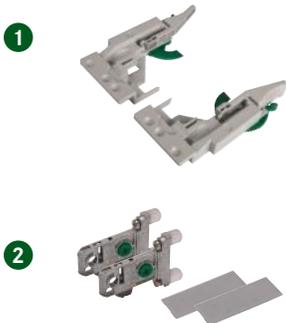
Vionaro H89



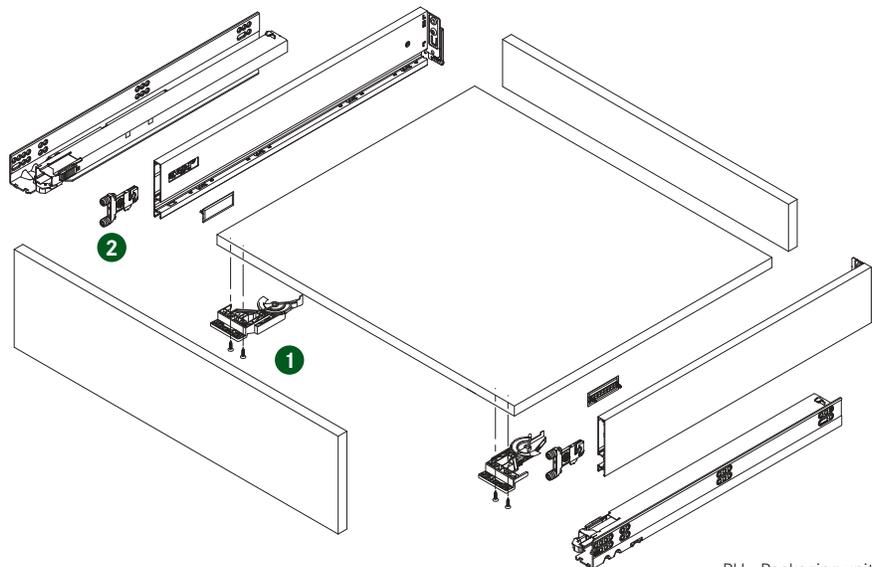
Drawer Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
381 (15")	F135121403211	F135121303211	F135121353211	10
457 (18")	F135121406211	F135121306211	F135121356211	10
533 (21")	F135121409211	F135121309211	F135121359211	10

Note: See pages 24-29 for compatible Dynapro Slides and rear adapter set

Front Locking Devices and Adapter Sets



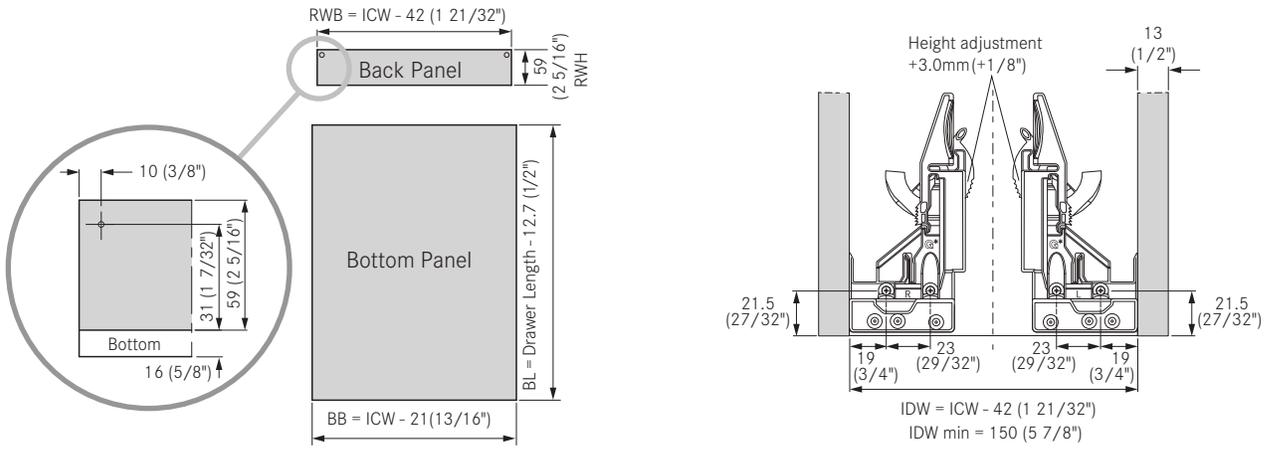
Description	Item No.	PU	
(Must order separately)			
1 Front locking device with flange, left	F134116420233	200	
Front locking device with flange, right	F134116421233	200	
Front locking device with flange, set	F134116422204	5	
2 Adapter Set for 89mm height	White	F136135095517	50
Adapter set includes:	Silver Grey	F136106491517	50
2 Front connectors with 10mm dowels	Graphite	F136106492517	50
2 Interior cover caps			



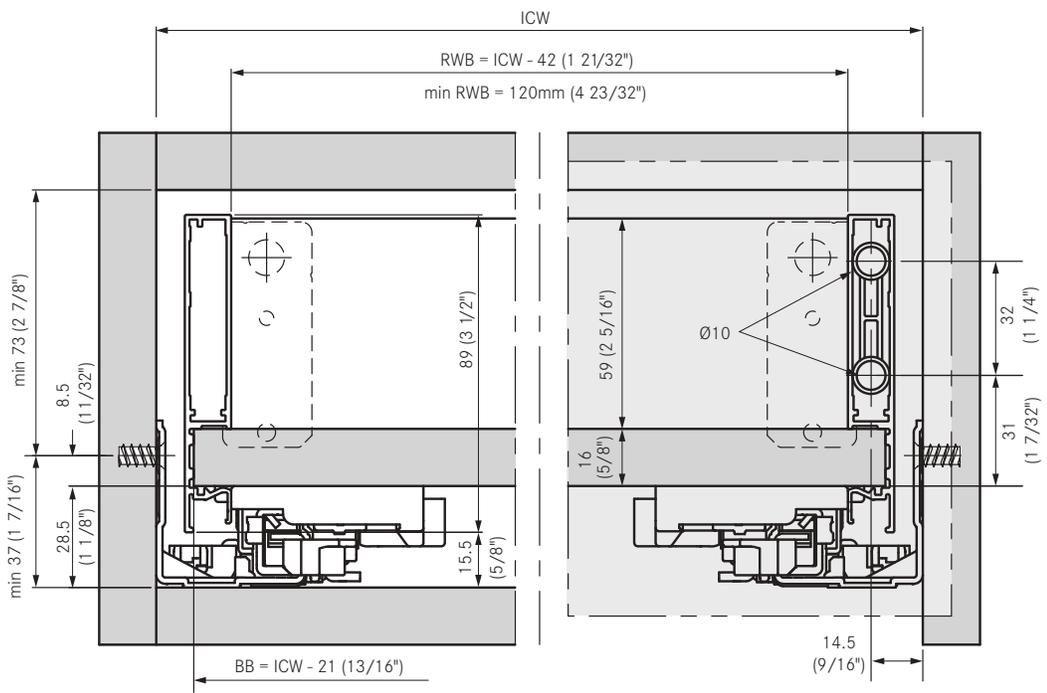
PU - Packaging unit

Drawer height	89mm (3 1/2")
Standard Dynamic Load	100 lb (45 kg)
HD Dynamic Load	132 lb (60 kg)
Static Load Standard/HD	100 lb (45 kg)/150 lb (70 kg)

Drawer Back and Bottom Measurements **Front Locking Device Position**



Legend **Drawer Measurements**



- BB = bottom panel width
- BL = bottom panel length
- ICW = inside cabinet width
- IDW = inside drawer width
- RWB = back panel width
- RWH = back panel height

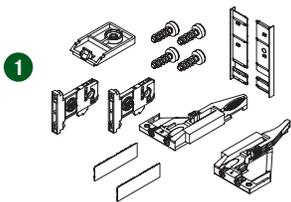
Vionaro H89 Inset Drawer System

Inset front panel and accessory set



- Color-coordinated aluminum front panel profile
- 89mm (3 1/2") side height
- Cubist design with 90° angles
- Slimline 13mm (1/2") side width
- Bottom panel is cut to size without notching

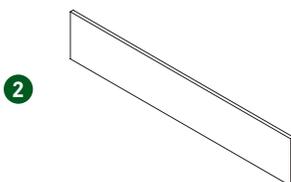
Vionaro H89 Inset Drawer and Accessory Set



Description	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
H89 Inset Drawer Accessory Set	F136100279517	F136100277517	F136100278517	50

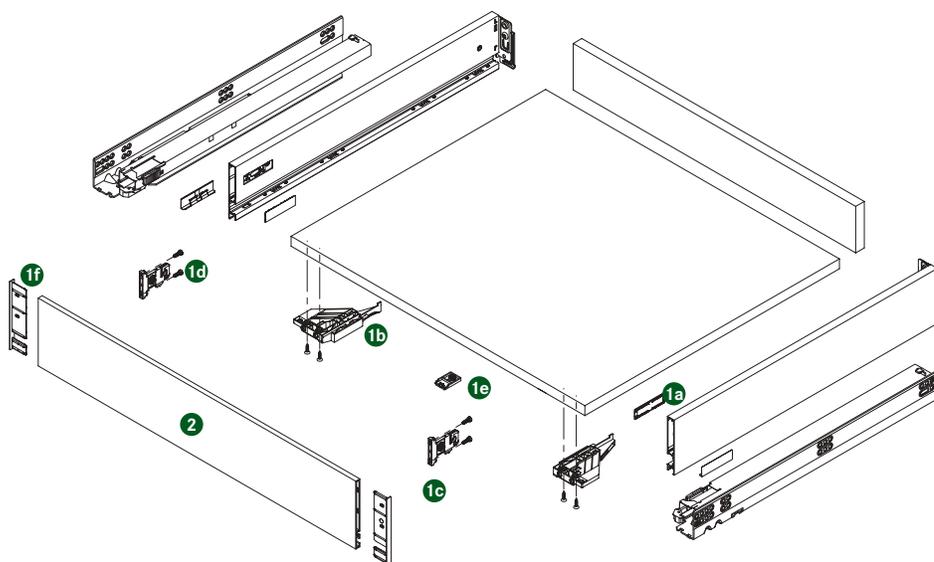
Accessory set consists of:

- 1a** 2 - Cover Caps
- 1b** 1 - Front Locking Device Set, left/right
- 1c** 2 - Front Connectors
- 1d** 4 - Front Connector Screws
- 1e** 1 - Front Bottom Connector
- 1f** 2 - End caps



Description/Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
H89 Inset Front Panel				
1160 (45 11/16")	F136120569507	F136122619507	F136120538507	10

H89 inset front panels can be cut to length. One side is pre-drilled and a drilling template is provided for the other side for accurate installation. Assembly instructions for the accessory set are included with each panel.

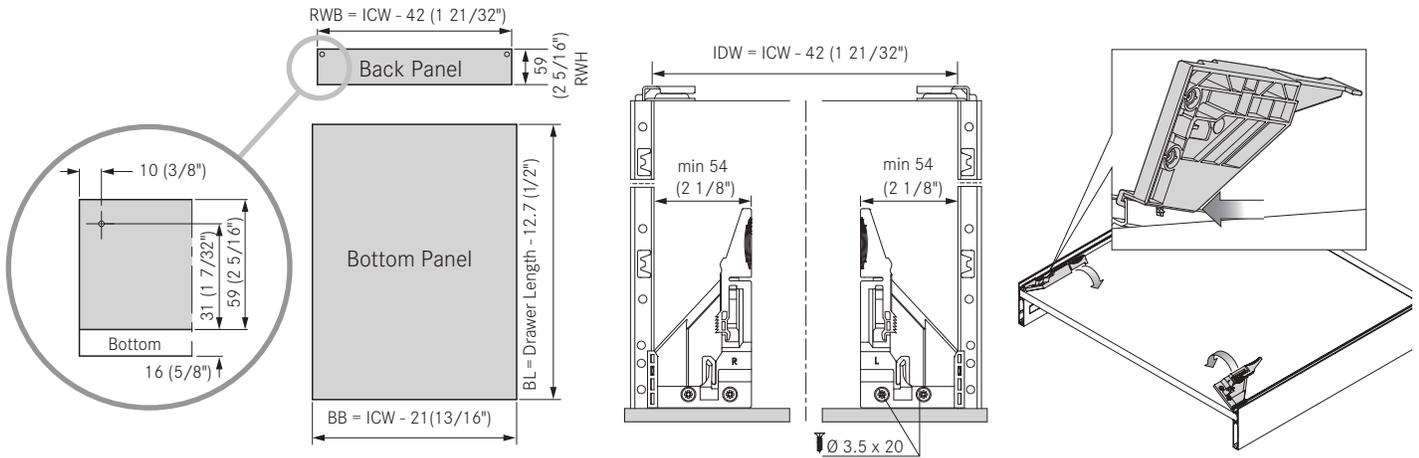


PU - Packaging unit

Drawer height	89mm (3 1/2")
Standard Dynamic Load	100 lb (45 kg)
HD Dynamic Load	132 lb (60 kg)
Static Load Standard/HD	100 lb (45 kg)/150 lb (70 kg)

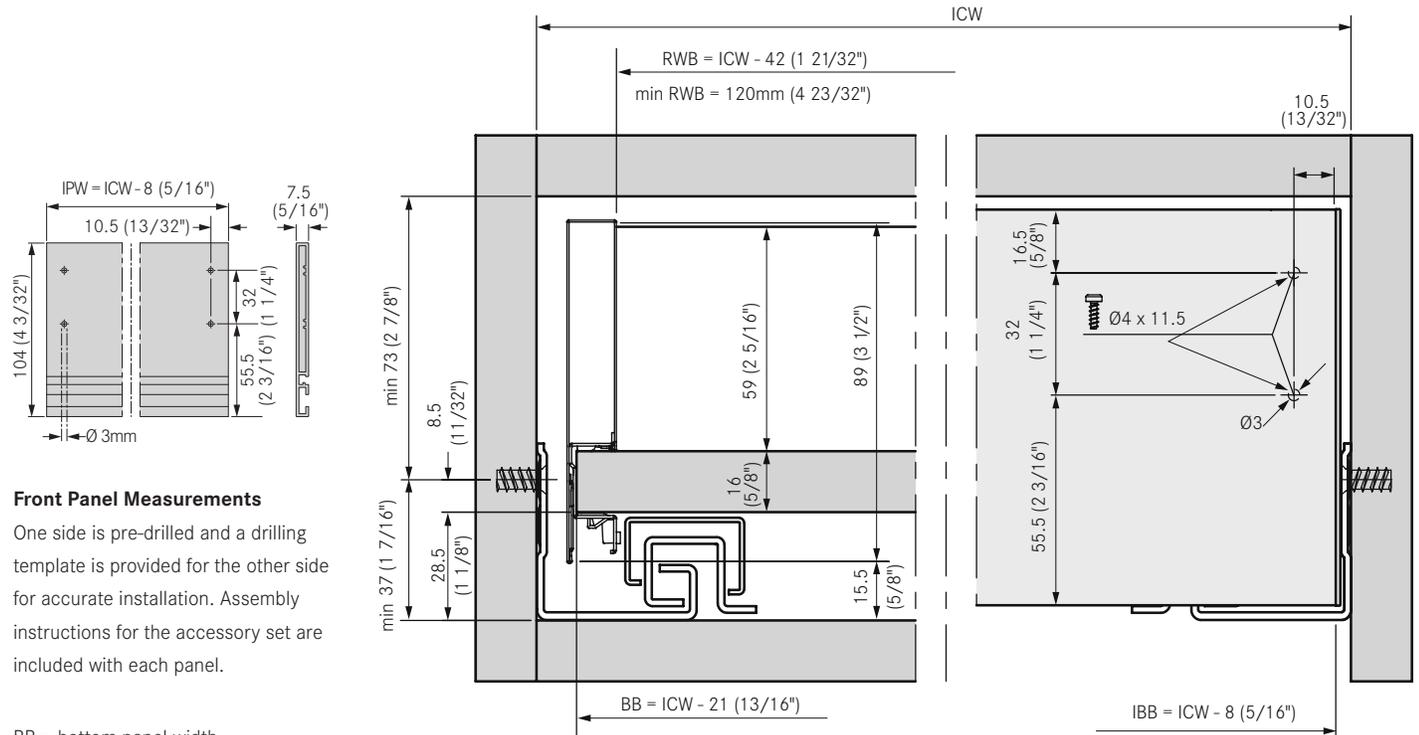
Inset Drawer Back and Bottom Measurements

Front Locking Device Position and Installation



Front Panel Measurements

Drawer Measurements



Front Panel Measurements

One side is pre-drilled and a drilling template is provided for the other side for accurate installation. Assembly instructions for the accessory set are included with each panel.

- BB = bottom panel width
- BL = bottom panel length
- IBB = inset front panel width
- ICW = inside cabinet width
- IDW = inside drawer width
- IPW = inside panel width
- RWB = back panel width
- RWH = back panel height

Vionaro H121, 121mm (4 3/4") side height

13mm slimline drawer for Dynapro 16



- Cubist design with 90° angles
- Slimline 13mm (1/2") side width
- 3-dimensional adjustment
- Integrated side and height adjustment, tilt angle adjustment at back
- Plus and minus adjustments for Vionaro sides
- Bottom panel is cut to size without notching
- Tool-free front assembly
- For frame and frameless cabinetry
- Compatible with Dynapro 16 with 2D or 3D adjustment

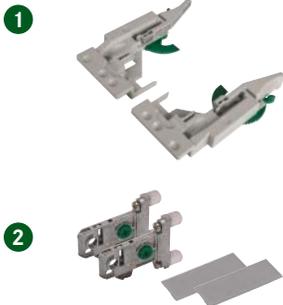
Vionaro H121



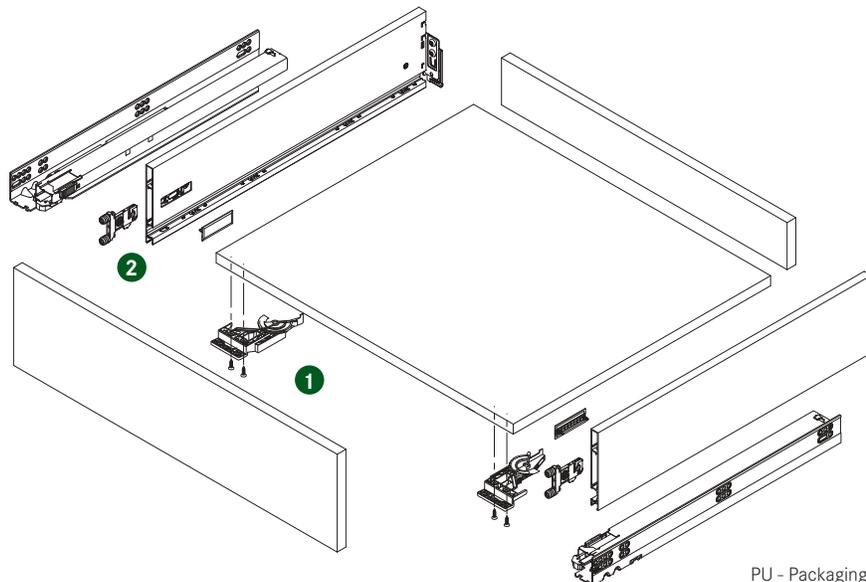
Drawer Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
381 (15")	F135135041 207	F135135050 207	F135135059 207	5
457 (18")	F135135044 207	F135135053 207	F135135062 207	5
533 (21")	F135135047 207	F135135056 207	F135135065 207	5

Note: See pages 24-29 for compatible Dynapro Slides and rear adapter set

Front Locking Devices and Adapter Set



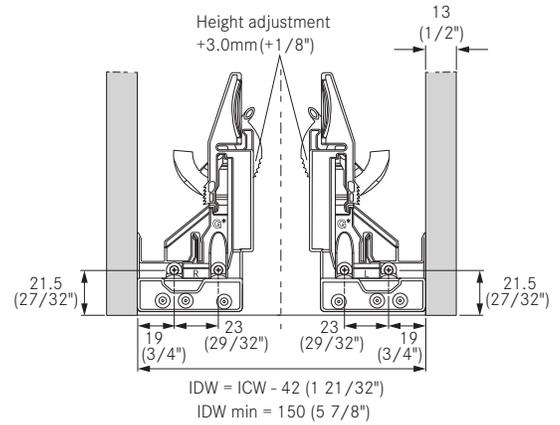
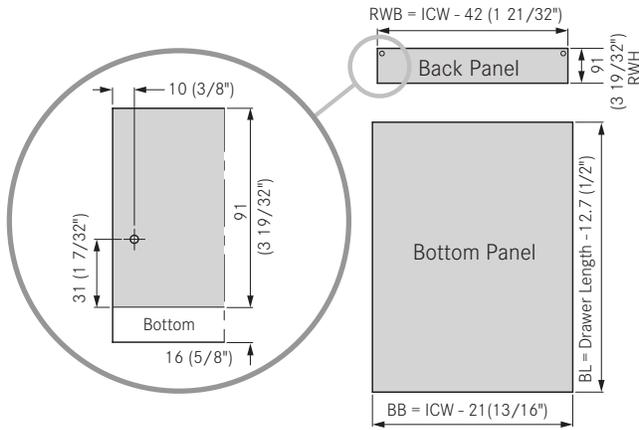
Description	Item No.	PU	
(Must order separately)			
1 Front locking device with flange, left	F134116420 233	200	
Front locking device with flange, right	F134116421 233	200	
Front locking device with flange, set	F134116422 204	5	
2 Adapter Set for 89mm height*	White	F136135095 517	50
(*89mm Adapter Sets are used with H121 Vionaro)	Silver Grey	F136106491 517	50
Adapter set includes:	Graphite	F136106492 517	50
2 Front connectors with 10mm dowels, 2 Interior cover caps			



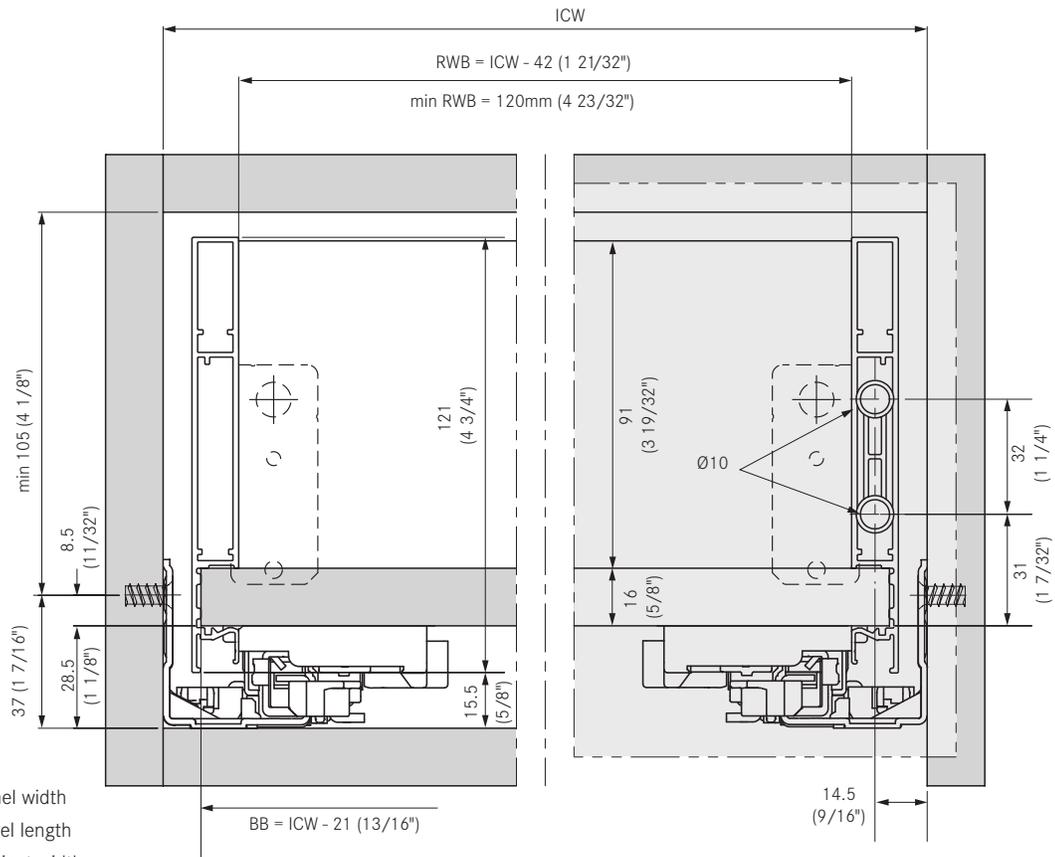
PU - Packaging unit

Drawer height	121mm (4 3/4")
Standard Dynamic Load	100 lb (45 kg)
HD Dynamic Load	132 lb (60 kg)
Static Load Standard/HD	100 lb (45 kg)/150 lb (70 kg)

Drawer Back and Bottom Measurements **Front Locking Device Position**



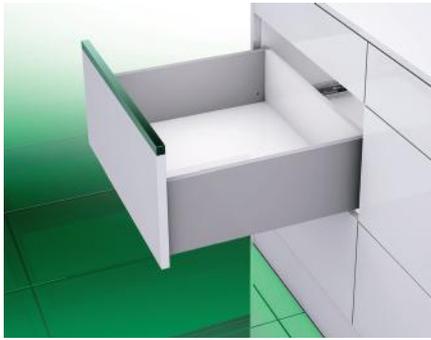
Legend **Drawer Measurements**



- BB = bottom panel width
- BL = bottom panel length
- ICW = inside cabinet width
- IDW = inside drawer width
- RWB = back panel width
- RWH = back panel height

Vionaro H185, 185mm (7 1/4") side height

13mm slimline drawer for Dynapro 16



- Cubist design with 90° angles
- Slimline 13mm (1/2") side width
- 3-dimensional adjustment
- Integrated side and height adjustment, tilt angle adjustment at back
- Plus and minus adjustments for Vionaro sides
- Bottom panel is cut to size without notching
- Tool-free front assembly
- For frame and frameless cabinetry
- Front adapter with stabilizer ensures maximum stability on tall fronts
- Compatible with Dynapro 16 with 2D or 3D adjustment

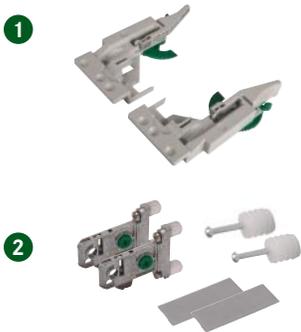
Vionaro H185



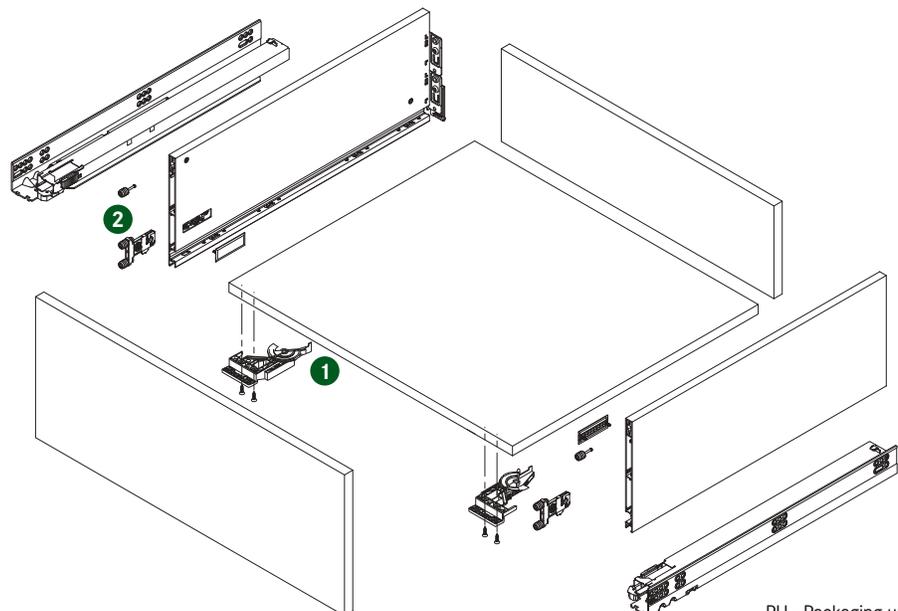
Drawer Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
381 (15")	F135121603207	F135121503207	F135121553207	5
457 (18")	F135121606207	F135121506207	F135121556207	5
533 (21")	F135121609207	F135121509207	F135121559207	5

Note: See pages 24-29 for compatible Dynapro Slides and rear adapter set

Locking Devices and Adapter Sets



Description	Item No.	PU	
(Must order separately)			
① Front locking device with flange, left	F134116420233	200	
Front locking device with flange, right	F134116421233	200	
Front locking device with flange, set	F134116422204	5	
② Adapter Set for 185mm height	White	F136135096517	50
Adapter set includes:	Silver Grey	F136106493517	50
2 Front connectors with 10mm dowels	Graphite	F136106494517	50
2 Interior cover caps, 2 Front stabilizers with 10mm dowels			

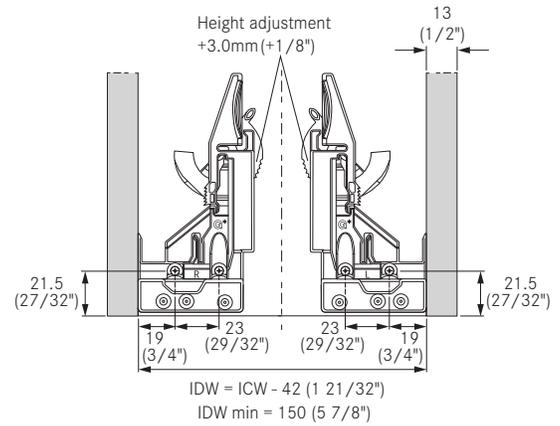
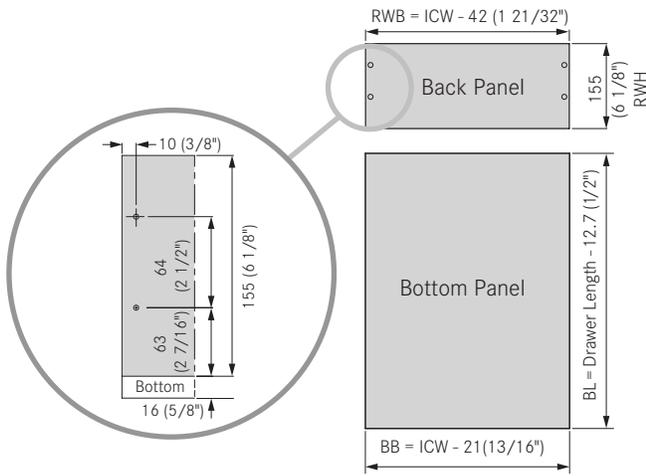


PU - Packaging unit

Drawer height	185mm (7 1/4")
Standard Dynamic Load	100 lb (45 kg)
HD Dynamic Load	132 lb (60 kg)
Static Load Standard/HD	100 lb (45 kg)/150 lb (70 kg)

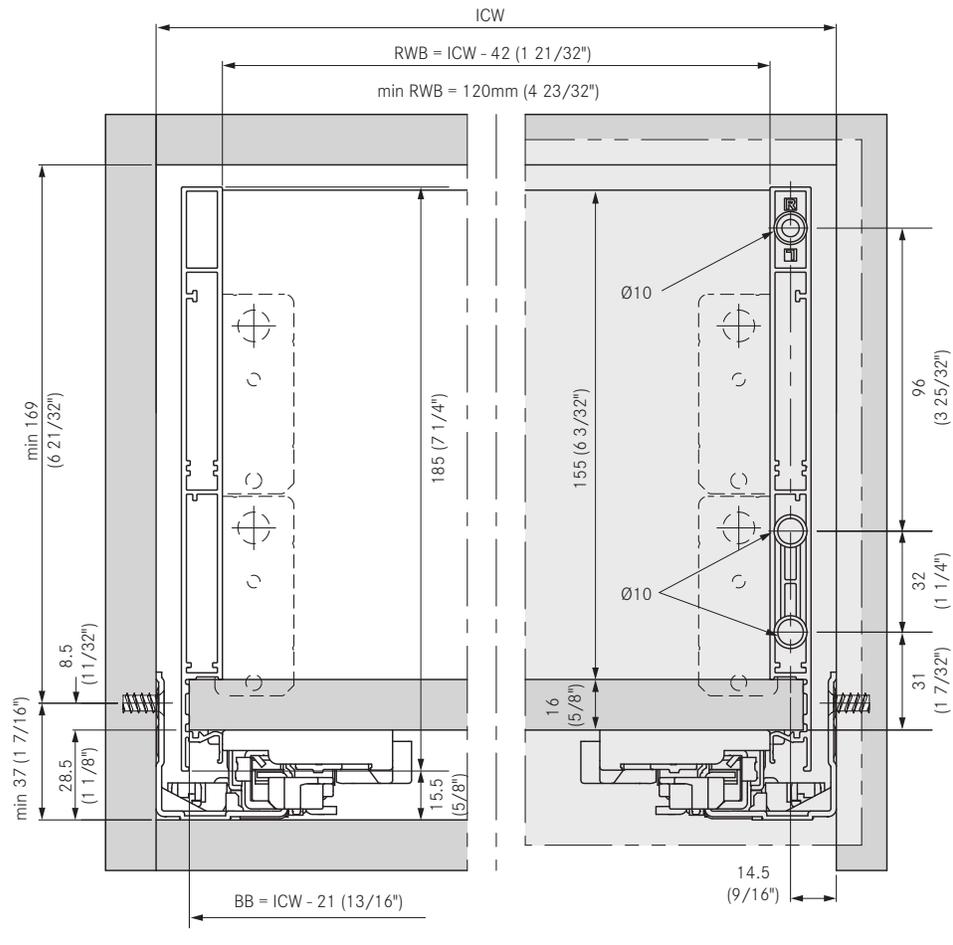
Drawer Back and Bottom Measurements

Front Locking Device Position and Installation



Legend

Drawer Measurements



- BB = bottom panel width
- BL = bottom panel length
- ICW = inside cabinet width
- IDW = inside drawer width
- RWB = back panel width
- RWL = back panel height

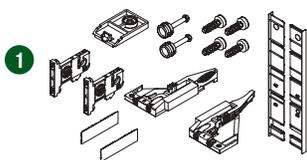
Vionaro H185 Inset Drawer System

Inset front panel and accessory set



- Color-coordinated aluminum front panel profile
- 185mm (7 1/4") side height
- Cubist design with 90° angles
- Slimline 13mm (1/2") side width
- Bottom panel is cut to size without notching

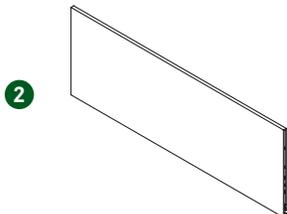
Vionaro H185 Inset Drawer and Accessory Set



Description	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
H185 Inset Drawer Accessory Set	F136100320 517	F136100318 517	F136100319 517	50

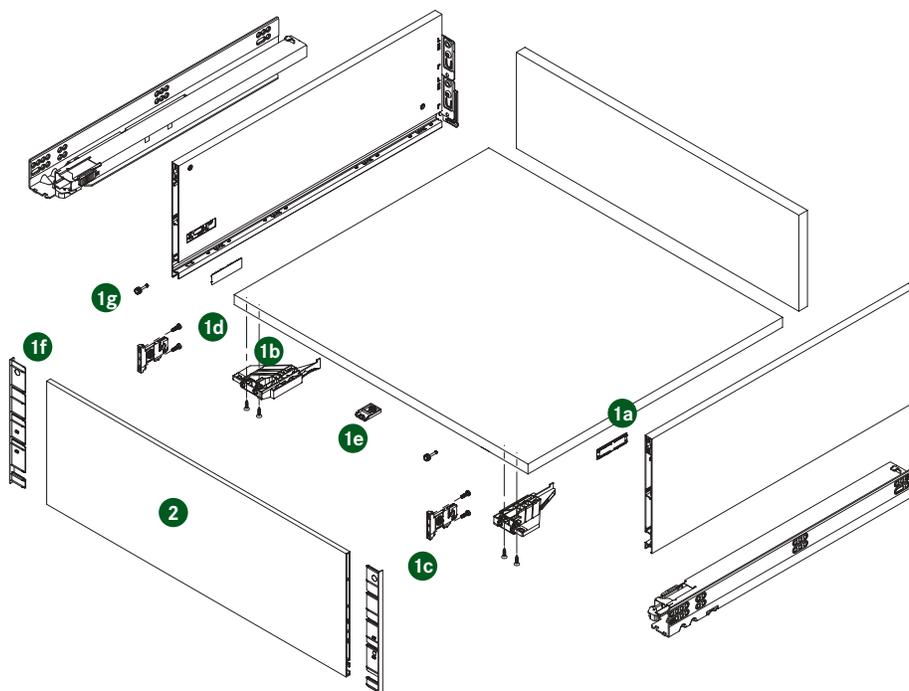
Accessory set consists of:

- 1a** 2 - Cover Caps
- 1b** 1 - Front Locking Device Set, left/right
- 1c** 2 - Front Connectors
- 1d** 4 - Front Connector Screws
- 1e** 1 - Front Bottom Connectors
- 1f** 2 - End caps
- 1g** 2 - Front Stabilizers with 8mm dowel



Description/Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
H185 Inset Front Panel				
1160 (45 11/16")	F136120589 507	F136122669 507	F136120539 507	10

H185 inset front panels can be cut to length. One side is pre-drilled and a drilling template is provided for the other side for accurate installation. Assembly instructions for the accessory set are included with each panel.

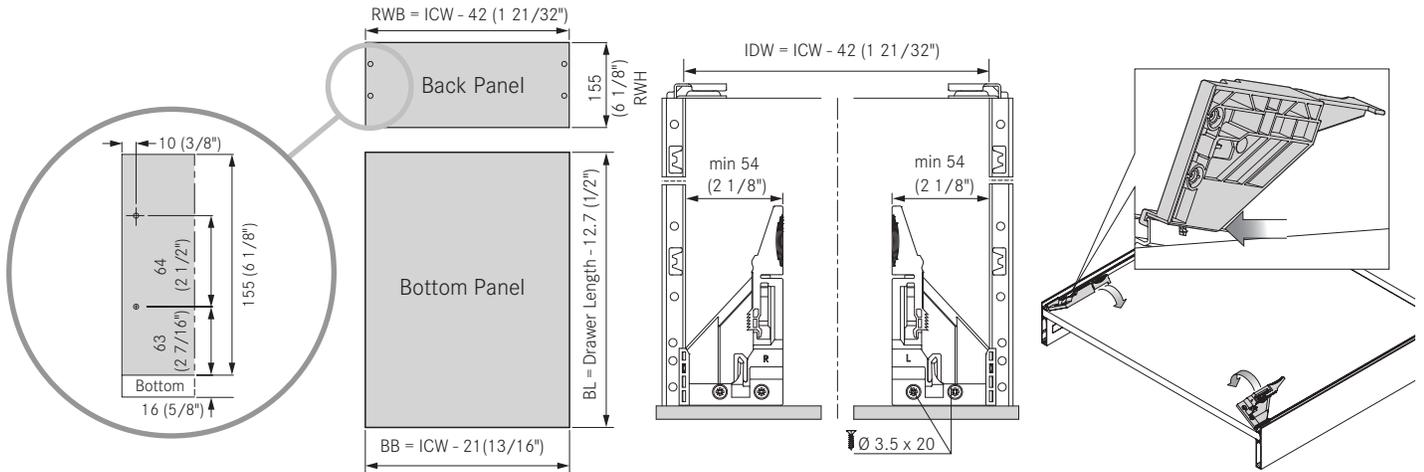


PU - Packaging unit

Drawer height	185mm (7 1/4")
Standard Dynamic Load	100 lb (45 kg)
HD Dynamic Load	132 lb (60 kg)
Static Load Standard/HD	100 lb (45 kg)/150 lb (70 kg)

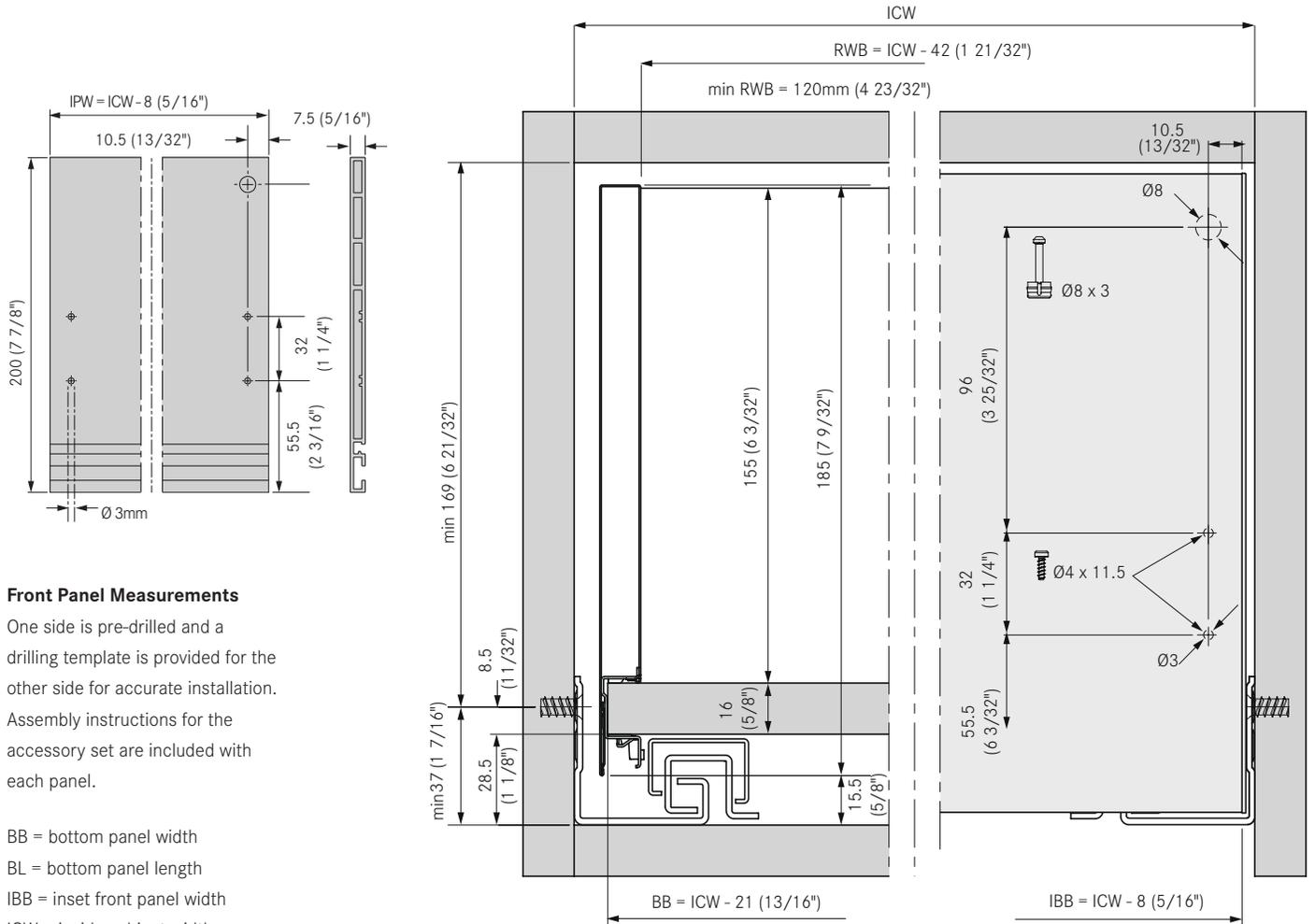
Inset Drawer Back and Bottom Measurements

Front Locking Device Position and Installation



Front Panel Measurements

Drawer Measurements



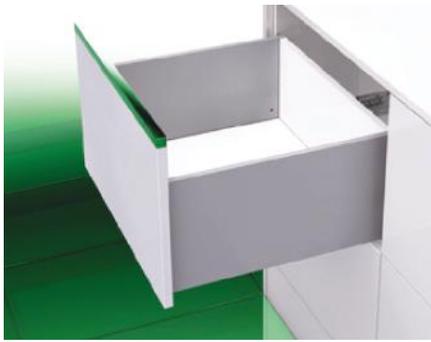
Front Panel Measurements

One side is pre-drilled and a drilling template is provided for the other side for accurate installation. Assembly instructions for the accessory set are included with each panel.

- BB = bottom panel width
- BL = bottom panel length
- IBB = inset front panel width
- ICW = inside cabinet width
- IDW = inside drawer width
- IPW = inside panel width
- RWB = back panel width
- RWH = back panel height

Vionaro H249, 249mm (9 3/4") side height

13mm slimline drawer for Dynapro 16



- Cubist design with 90° angles
- Slimline 13mm (1/2") side width
- 3-dimensional adjustment
- Integrated side and height adjustment, tilt angle adjustment at back
- Plus and minus adjustments for Vionaro sides
- Bottom panel is cut to size without notching
- Tool-free front assembly
- For frame and frameless cabinetry
- Front adapter with stabilizer ensures maximum stability on tall fronts
- Compatible with Dynapro 16 with 2D or 3D adjustment

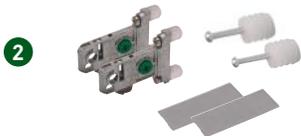
Vionaro H249



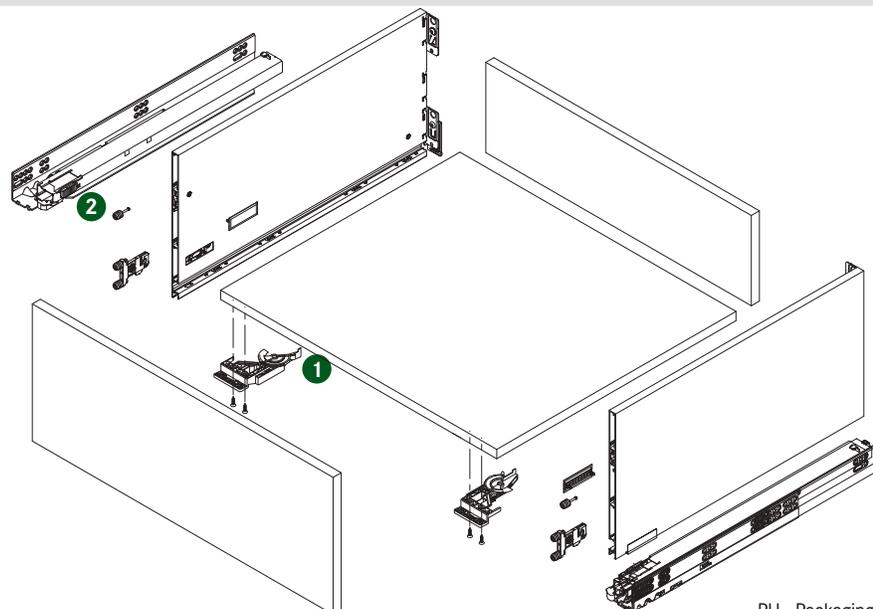
Drawer Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
381 (15")	F135135068 207	F135135077 207	F135135086 207	5
457 (18")	F135135071 207	F135135080 207	F135135089 207	5
533 (21")	F135135074 207	F135135083 207	F135135092 207	5

Note: See pages 24-29 for compatible Dynapro slides and rear adapter set

Front Locking Devices and Adapter Set



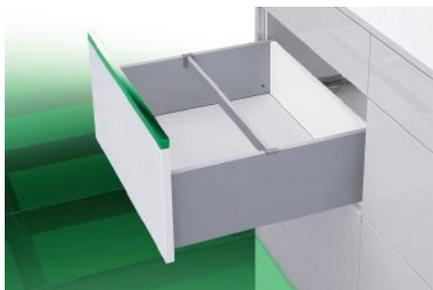
Description	Item No.	PU	
(Must order separately)			
1 Front locking device with flange, left	F134116420 233	200	
Front locking device with flange, right	F134116421 233	200	
Front locking device with flange, set	F134116422 204	5	
2 Adapter Set for 185mm height*	White	F136135096 517	50
(*185mm Adapter Sets are used with H249 Vionaro)	Silver Grey	F136106493 517	50
Adapter Set includes:	Graphite	F136106494 517	50
2 Front Connectors with 10mm dowels			
2 Interior cover caps, 2 Front stabilizers with 10mm dowels			



PU - Packaging unit

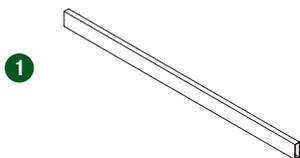
Vionaro Cross-divider

Railing System



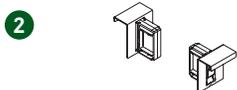
- Cross-divider for all Vionaro drawers
- Simple installation by mounting on the drawer side
- Can be retrofitted at any time
- Tool-free adjustment

Vionaro Cross-divider, can be cut to length

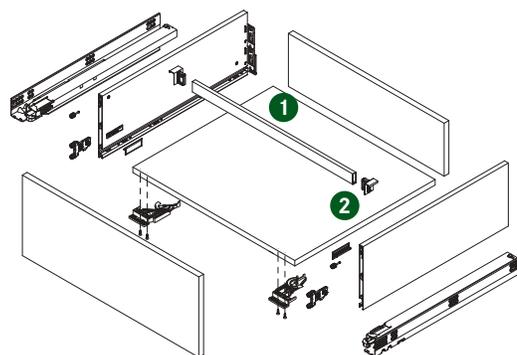


Description	Length	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
Cross-divider	1124 (44 1/4")	F136107417507	F136107415507	F136107416507	10

Holder for Cross-divider

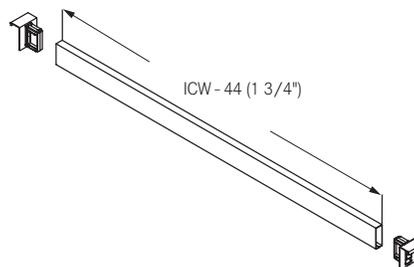
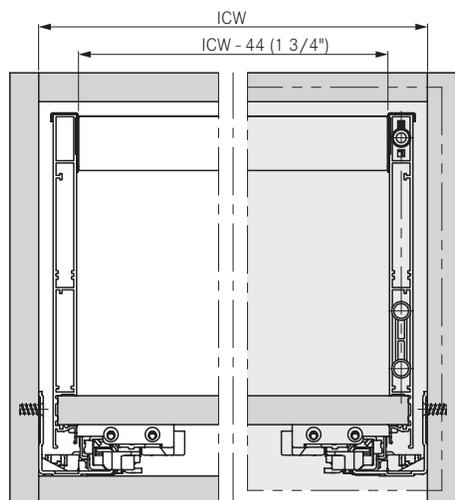


Description	Item No. White	Item No. Silver Grey	Item No. Graphite	PU
Holder for Cross-divider	F136107481533	F136107479533	F136107480533	200



Installation Dimensions

Cutting Dimensions for Cross-divider



ICW = inside cabinet width

PU - Packaging unit

Tavinea Optima

Dividing System for Vionaro



- Dividing system for Vionaro deep drawers
- Organizes storage space for better drawer utilization
- Tool-free and adjustable for a variety of storage space arrangements
- Can be retrofitted at any time
- Color-coordinated with the drawer side
- Tavinea Optima also works with Nova Pro Scala drawer system

Tavinea Optima Profile Clip



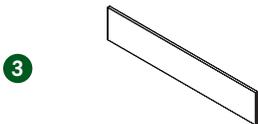
Description	Item No. Graphite/Stone	Item No. White/Ice	Item No. Silver Grey	PU
Profile Clip (Left or Right)	F007130228511	F007130229511	F007130230511	20

Tavinea Optima Smartboard



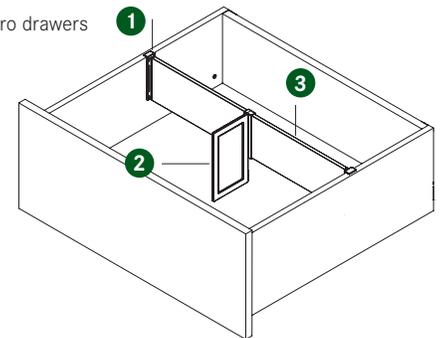
Description	Item No. Graphite/Stone	Item No. White/Ice	Item No. Silver Grey	PU
Smartboard	F007130245211	F007130246211	F007130247211	20

Tavinea Optima Divider, cut to length

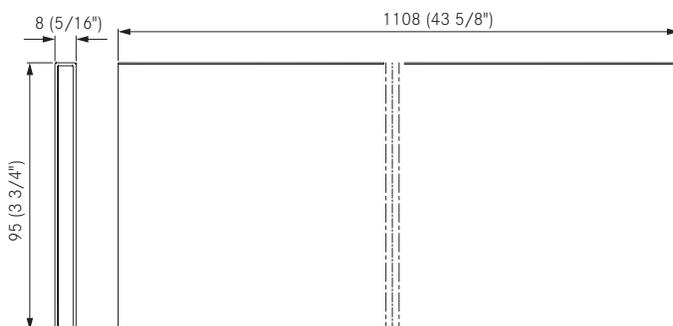


Description	Length	Item No. Graphite	Item No. White	Item No. Silver Grey	PU
Divider	1108 (43 5/8")	F007130242507	F007130243507	F007130241507	10

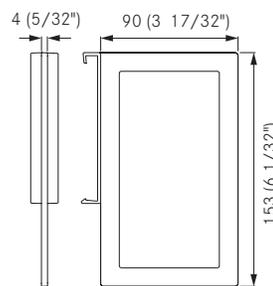
Note: Tavinea Optima colors coordinate with Nova Pro Scala and Vionaro drawers



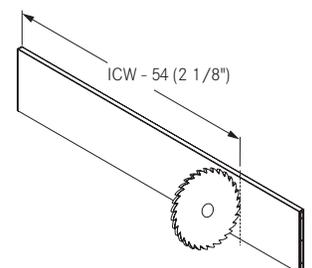
Divider Dimensions



Smartboard Dimensions



Cutting Dimensions of divider profile



ICW = inside cabinet width

PU - Packaging unit

Dynapro 16, Full Extension Slide

Integrated Soft-close with 2-dimensional adjustment



- Full extension with a synchronized mechanism
- Soft-close damping system
- Maximum connection to drawer slide and front locking device
- Integrated 2-dimensional adjustment for alignment
- Height adjustment +3.5mm with front locking device and ± 1.5 mm via Vionaro
- Depth adjustment +4.5mm (optional)
- 100 lb load rating (45 kg)
- For face frame and frameless cabinetry

Dynapro 16 Full Extension Slides, 100 lb (45 kg)



Drawer Length	Nominal length	Min Installation Depth	Item No.	PU
381 (15")	399 (15 23/32")	403 (15 7/8")	F130135015204	5
457 (18")	475 (18 11/16")	479 (18 27/32")	F130135016204U	5
533 (21")	551 (21 11/16")	555 (21 27/32")	F130135019204U	5

Front Locking Devices, Adjustment Adapters, and Rear Mounting Brackets

1



Description	Item No.	PU
(Must order separately)		
1 Front locking device with flange, left	F134116420233	200
Front locking device with flange, right	F134116421233	200
Front locking device with flange, set	F134116422204	5

2



2 Depth adjuster for drawer front, left and right set	F134101002104	5
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3

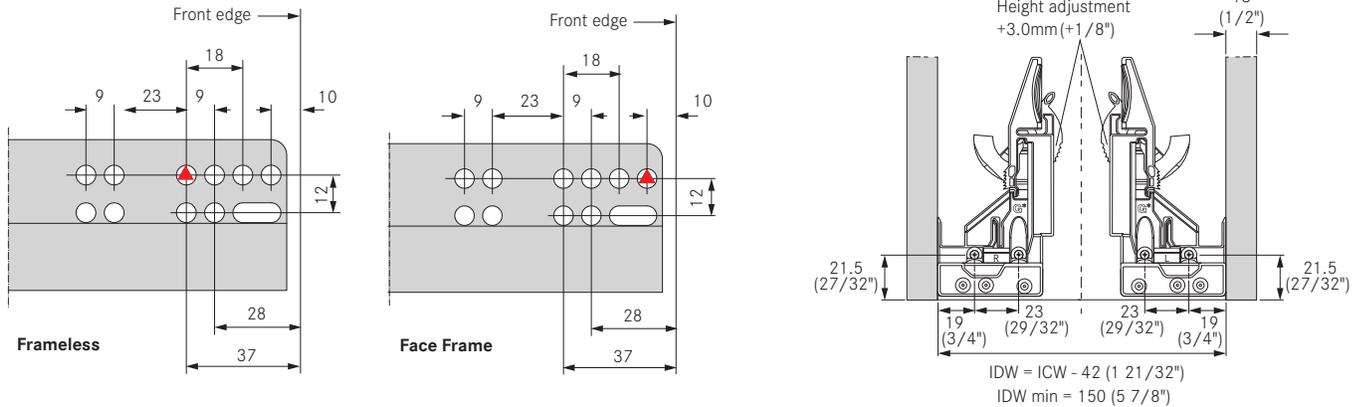


3 Rear mounting brackets, non-handed for 12"-21" slides	7950.VE300	300
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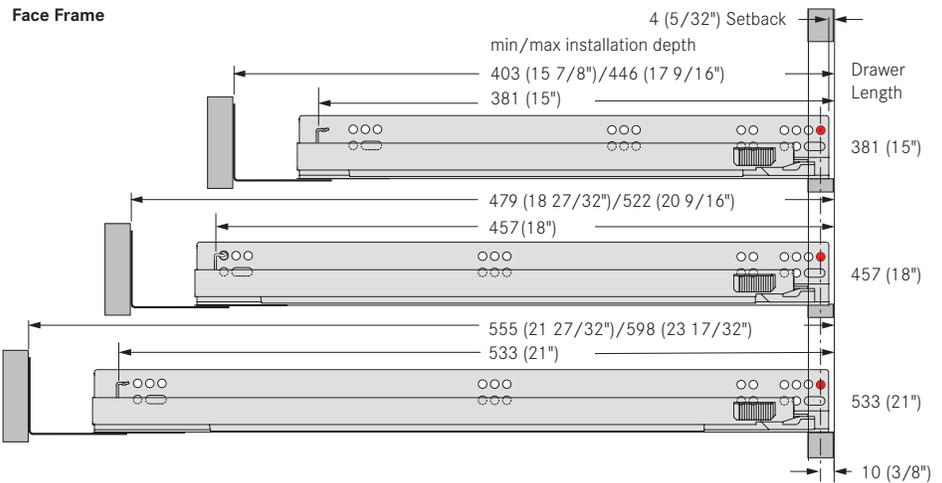
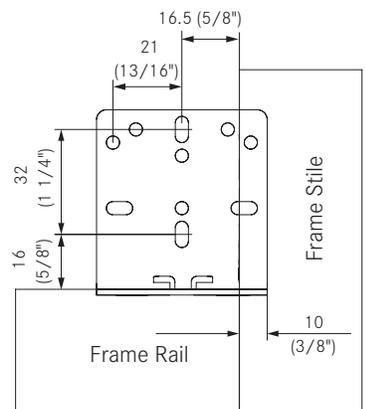
PU - Packaging unit

Standard Dynamic Load	100 lb (45 kg)
Static Load Standard	100 lb (45 kg)

Mounting Position for Front Cabinet Profile **Front Locking Device Position**

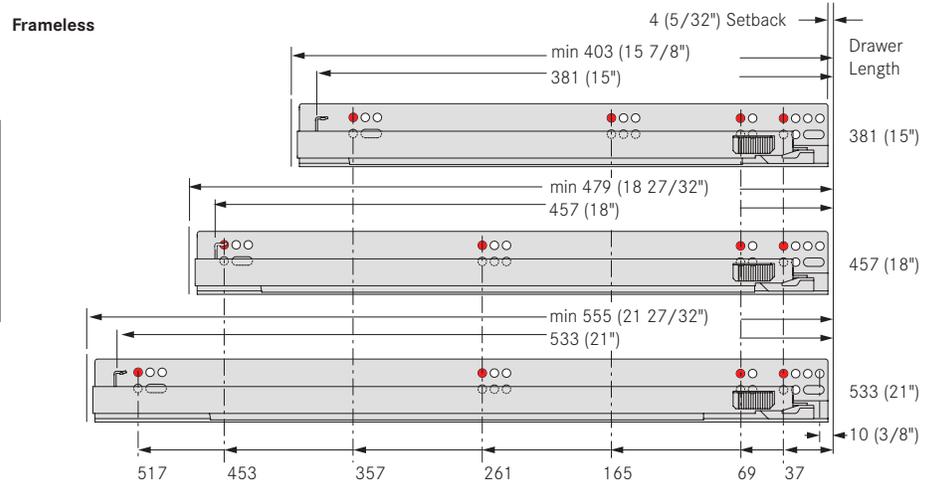
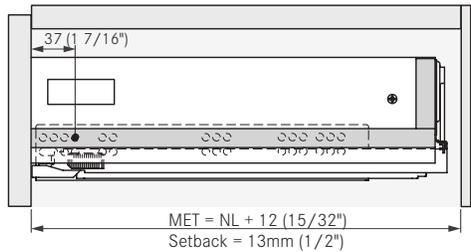


Rear Bracket for Face Frame **Cabinet Boring Specifications**



Pre-drilling recommended $\varnothing 2.5\text{mm}$ (3/32").
 Note: The recommendations for screw placement are guidelines only. Installers need to ensure that the cabinet wall is adequate.

Minimum Installation Depth for Inset Drawers



ICW = inside cabinet width
 IDW = inside drawer width
 MET = Minimum installation depth
 NL = Nominal length

Dynapro 16, Full Extension Slide

Integrated Soft-close with 3-dimensional adjustment



- Full extension with a synchronized mechanism
- Soft-close damping system
- Maximum connection to drawer slide and front locking device
- Integrated 3-dimensional adjustment for alignment
- Height adjustment +3.5mm with front locking device and ± 1.5 mm via Vionaro
- Depth adjustment +4.5mm (optional)
- 100 lb load rating (45 kg) and 132 lb load rating (60 kg)
- For frame and frameless cabinetry
- Rear adapter brackets are required when using 3D adjustable Dynapro

Dynapro 16 Full Extension Slides, 100 lb (45 kg) and 132 lb (60 kg)



Drawer Length	Nominal length	Min Installation Depth	Item No.	PU
381 (15")	399 (15 23/32")	403 (15 7/8")	F130135005 204	5
457 (18")	475 (18 11/16")	479 (18 27/32")	F130135006 204	5
533 (21")	551 (21 11/16")	555 (21 27/32")	F130135007 204	5
Heavy Duty, Full Extension Slides, 132 lb (60 kg)				
457 (18")	475 (18 11/16")	479 (18 27/32")	F130135008 204	5
533 (21")	551 (21 11/16")	555 (21 27/32")	F130135009 204	5

Front Locking Devices, Adjustment Adapters, and Rear Mounting Brackets

1



Description	Item No.	PU
(Must order separately)		
1 Front locking device with flange, left	F134116420 233	200
Front locking device with flange, right	F134116421 233	200
Front locking device with flange, set	F134116422 204	5

2



2 Depth adjuster for drawer front, left and right set	F134101002 104	5
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3



3 Vionaro rear adapter set, left and right*	00199-03	5
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4



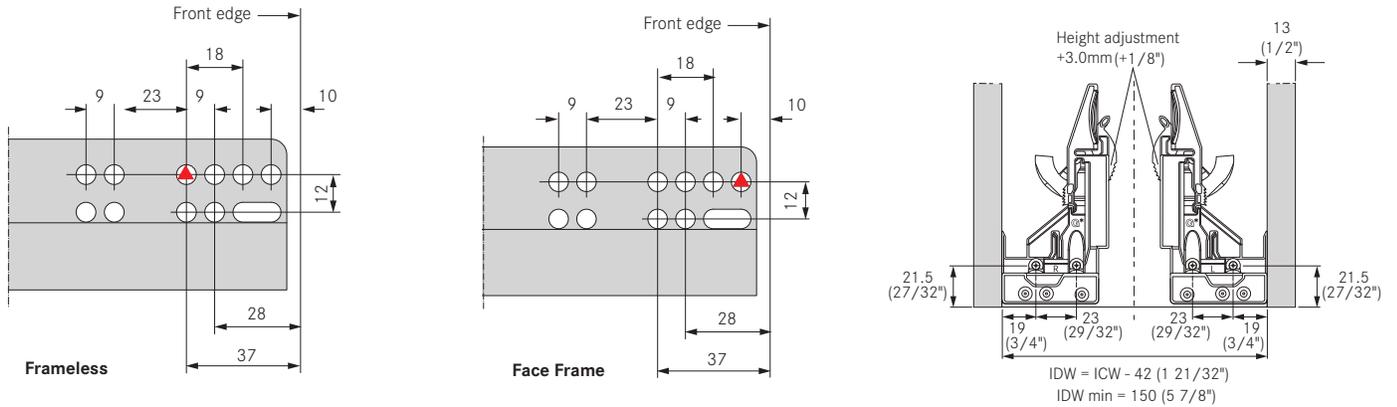
4 Rear mounting brackets, non-handed for 12"-21" slides	7950.VE300	300
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*Adapters required when using Dynapro with 3D adjustable slides with Vionaro

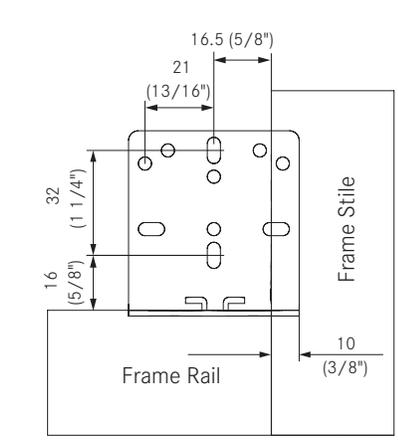
PU - Packaging unit

Standard Dynamic Load	100 lb (45 kg)
Standard Static Load	100 lb (45 kg)
HD Dynamic Load	132 lb (60 kg)
HD Static Load	150 lb (70 kg)

Mounting Position for Front Cabinet Profile **Front Locking Device Position**



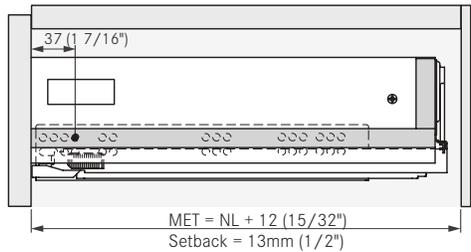
Rear Bracket for Face Frame **Cabinet Boring Specifications**



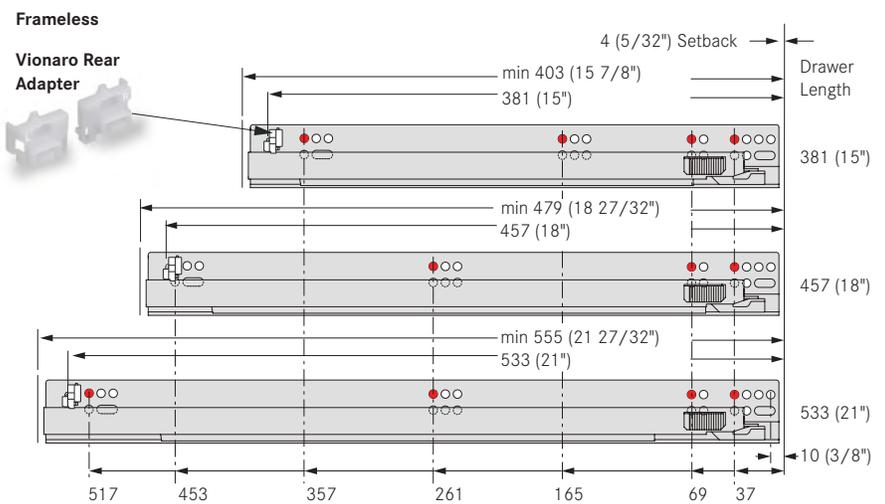
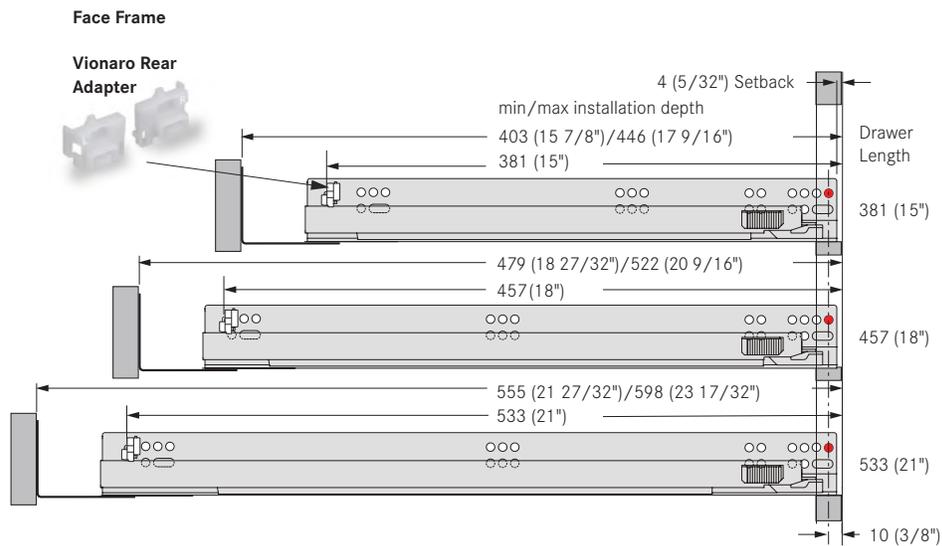
Pre-drilling recommended $\varnothing 2.5\text{mm}$ (3/32").

Note: The recommendations for screw placement are guidelines only. Installers need to ensure that the cabinet wall is adequate.

Minimum Installation Depth for Inset Drawers



ICW = inside cabinet width
 IDW = inside drawer width
 MET = Minimum installation depth
 NL = Nominal length



Note: Adapters required when using Dynapro with 3D adjustable slides with Vionaro.

Dynapro 16, Tipmatic

Tipmatic Full Extension with 2-dimensional adjustment



- Integrated Tipmatic
- Full extension with a synchronized mechanism
- Designed for drawers without pulls
- For face frame and frameless applications
- Secure and smooth operation even if drawer is pulled open
- Maximum connection to drawer slide and front locking device
- Integrated 2-dimensional adjustment for alignment
- Height adjustment +3.5mm with front locking device and $\pm 1.5\text{mm}$ via Vionaro
- Drawer widths should not exceed 26" wide

Dynapro 16 Tipmatic Full Extension Slide, 100 lb (45 kg)



Drawer Length	Nominal Length	Min Installation Depth	Item No.	PU
381 (15")	399 (15 23/32")	403 (15 7/8")	F130116432 204	5
457 (18")	475 (18 11/16")	479 (18 27/32")	F130116433 204	5
533 (21")	551 (21 11/16")	555 (21 27/32")	F130116434 204	5

Front Locking Devices and Rear Mounting Brackets

1



Description	Item No.	PU
(Must order separately)		
1 Front locking device with flange, left	F134116420 233	200
Front locking device with flange, right	F134116421 233	200
Front locking device with flange, set	F134116422 204	5

2

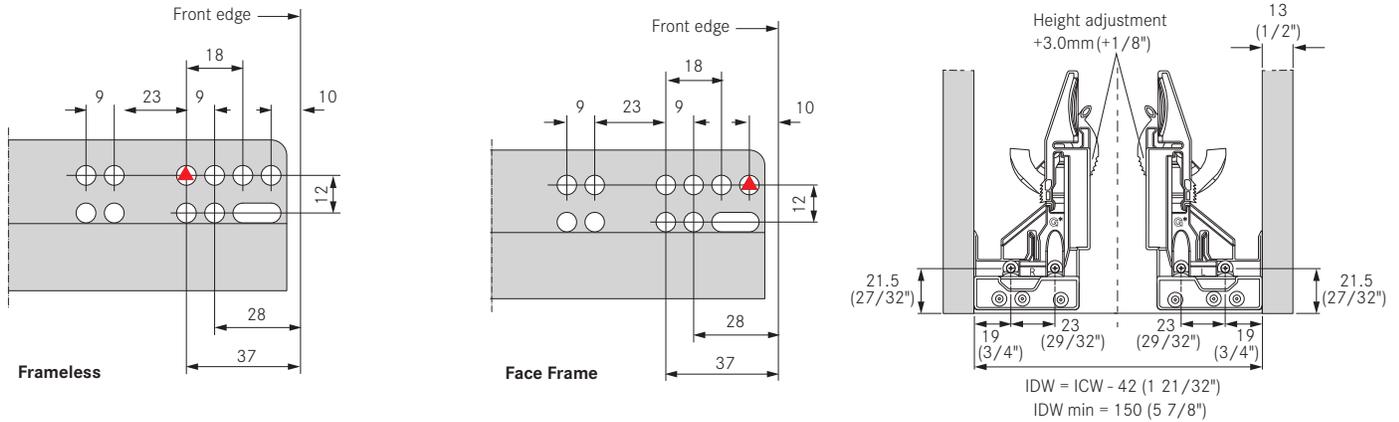


2 Rear mounting brackets, non-handed for 12"-21" slides	7950.VE300	300
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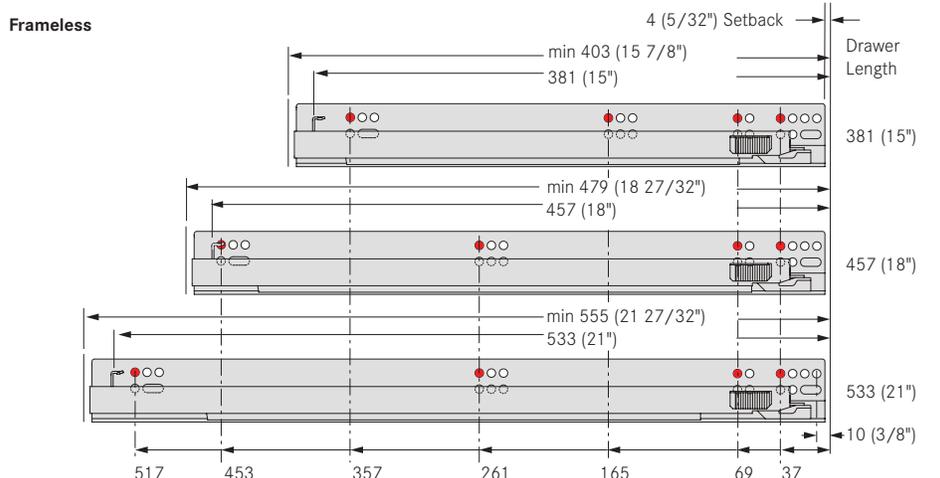
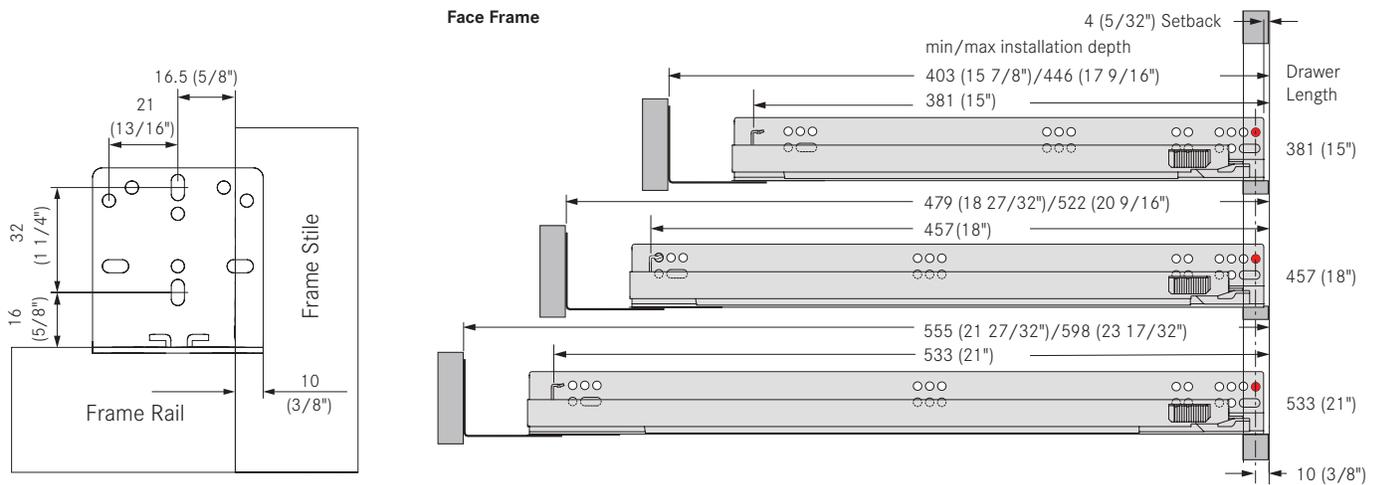
PU - Packaging unit

Dynamic Load	100 lb (45 kg)
Static Load	100 lb (45 kg)

Mounting Position for Front Cabinet Profile **Front Locking Device Position**



Rear Bracket for Face Frame **Cabinet Boring Specifications**



Pre-drilling recommended Ø2.5mm (3/32").

Note: The recommendations for screw placement are guidelines only. Installers need to ensure that the cabinet wall is adequate.

ICW = inside cabinet width
 IDW = inside drawer width

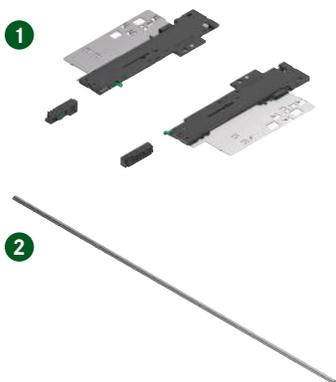
Dynapro Tipmatic Soft-close

Tipmatic full extension with soft-close action



- Works with Vionaro and wood box applications from 12.7mm (1/2") up to 16mm (5/8")
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damping
- Tool-free assembly of the Tipmatic Soft-close unit
- One unit for all Vionaro lengths
- 3 tier adjustment for the opening force
- Wide activation zone due to synchronization bar
- Works with drawers up to 1168mm (46")
- For face frame and frameless cabinetry

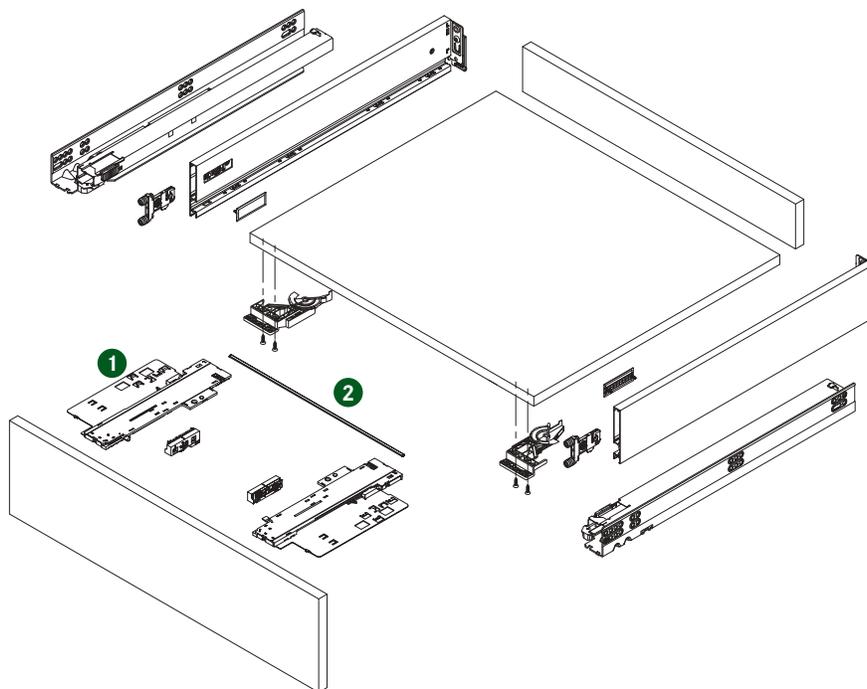
Tipmatic Soft-close



Description	Item No.	PU
(Must order separately)		
1 Tipmatic Soft-close set, unit and activator	F134109323607	10
2 Tipmatic synchronization bar - cut to length, 952mm (37 1/2")	F134109410207	10

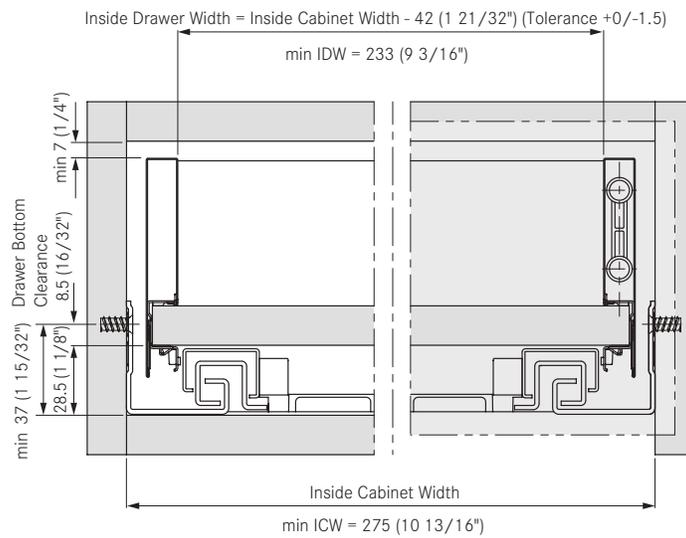
Note: Tipmatic Soft-close does not work with 9" slides.

Drawer Length	Nominal Length	Min Inst. Depth	Max Inst. Depth
381 (15")	399 (15 23/32")	403 (15 7/8")	446 (17 9/16")
457 (18")	475 (18 11/16")	479 (18 27/32")	522 (20 9/16")
533 (21")	551 (21 11/16")	555 (21 27/32")	598 (23 17/32")

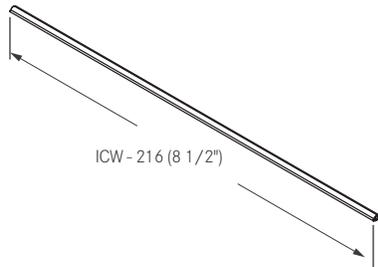


PU - Packaging unit

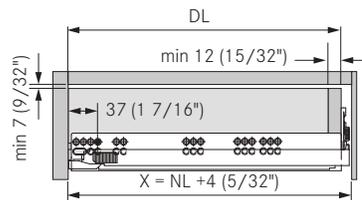
Drawer Installation Dimensions



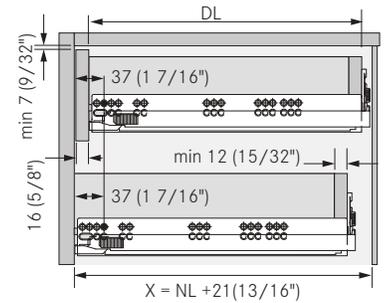
Synchronization Bar



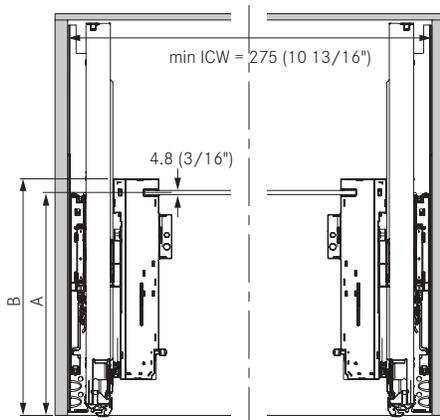
Drawer



Inset Roll-out Drawer



Position of the Synchronization Bar



Legend

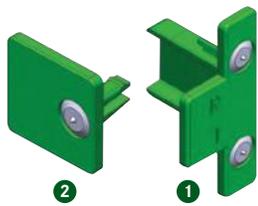
Drawer Length	A	B
381 - 533 (15 - 21")	296 (11 21/32")	313 (12 5/16")

DL = drawer length
 ICW = inside cabinet width
 IDW = inside drawer width
 NL = nominal length
 X = minimum installation depth

Accessories and Assembly Aids

Vionaro & Dynapro

Marking Jig



For exact marking of the drilled holes for the Vionaro front adapter

Set contains:

- 1 - marking jig for front connector
- 2 - marking jig for front stabilizer

Description	Item No.	PU
Marking jig	F146100545513	1

Drilling Jig



Front drilling jig for Vionaro front adapter

Description	Item No.	PU
Drilling jig	F146100562201	1

Punching Tool for Vionaro Front Stabilizer



Description	Item No.	PU
Front stabilizer punching tool	F146116216299	1

Vionaro Front Adapter Tool



Description	Item No.	PU
Vionaro front adapter tool	F146116213299	1

Punching Tool for Vionaro Bottom Spike



Description	Item No.	PU
Bottom spike punching tool	F146116217299	1

PU - Packaging unit

Vionaro & Dynapro

Drilling Template for Drawer



- For front locking device
- For drawer hole hook
- For adjustment adapter

Description	Item No.	PU
Drilling template	F146109874299	1

Centering Drill Bit Ø 2.5mm



The GRASS centering drill bit is used for pre-drilling countersink wood screws, Ø 2.5mm

Description	Item No.	PU
Centering drill bit	35692-01	1

Drill Bits for Aluminum Front Pull Outs



Description	Item No.	PU
Drill bit, 3mm, RH, for Vionaro	00156-01	1
Drill bit, 8mm, RH, for Vionaro	00158-01	1

Screws

Euro Screw, Nickel-plated



Description	Item No.	PU
Euro Screw 11mm (7/16") Pozi	499.360.61.1015	500
Euro Screw 13mm (1/2") Pozi	499.360.61.3015	500

Wood Screw, Nickel-plated



Description	Item No.	PU
#6 x 5/8" FHP, NI	81001-43	500
#6 x 3/4" FHP, NI	81003-43	500

PU - Packaging unit

Machinery & Assembly Aids

Grass PRO1 and Tecmator for Vionaro

Grass PRO1 for Vionaro



- Depth stop can be adjusted to material thickness
- Functional design
- Easy, fast and efficient operation
- Easy maintenance
- 3 spindle gear box

Description	Item No.	PU
220v single phase pneumatic	80063	1
220v three phase pneumatic	80064	1
110v single phase pneumatic	80065	1



Description	Item No.	PU
Extension fence 300mm to 1250mm	88612-01	1

Drill Bits



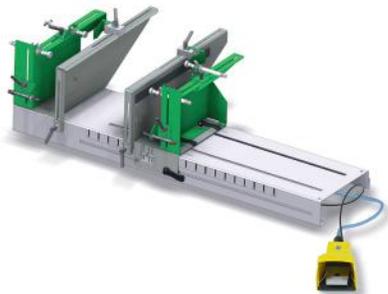
Description	Direction	Item No.	PU
1 10mm Carbide counter sink bit	LH	00222-01	1
2 10mm Carbide counter sink bit	RH	00229-01	1

Insertion Die



Description	Item No.	PU
Vionaro insertion die	30683-01	1

Tecmator ZMV - TP4



Note: Product lead time approximately 14 weeks

- Pneumatic table-top device for Vionaro
- The ZMV-TP can be used to assemble drawers for external cabinet widths of up to 1200mm
- Easy and straightforward handling
- Sturdy construction
- For small series production
- Pneumatic control system
- High performance

Description	Item No.	PU
Tecmator ZMV-TP4	F146108668 201	1

PU - Packaging unit

Versatile, Efficient, Exciting:
 Sensomatic combines handle-free
 opening with the ever popular
 Soft-closing action
 Fully automatic, electrically powered.



SENSOMATIC OPENING SYSTEM

Sensomatic, an electro-mechanical opening system that can be activated by a light touch anywhere on the surface of the drawer front. At the touch, the drawers glide open in one smooth motion.

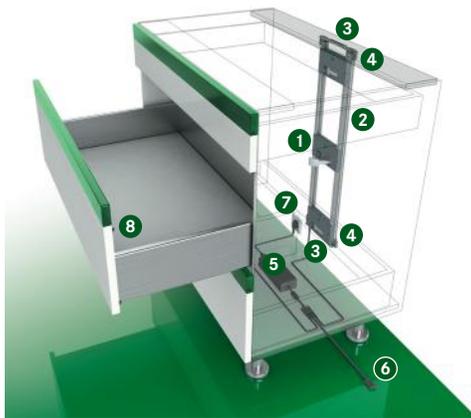
A simple installation process creates a superior drawer system. The action is steady, precise and ingenious. The perfect movement for today's functional requirements.

Sensomatic is extremely efficient in regard to power consumption and occupied space. The Sensomatic needs only one drive unit for cabinet widths up to 48" (1219mm) regardless of the weight. Accessories such as wire baskets, trash can receptacles, or roll out trays can be fitted with the Sensomatic system without modification. It has never been easier to open a drawer and - never easier to close a drawer.

Sensomatic together with Soft-close offers all the advantages of handle free opening with the elegance and functionality of a soft-closing action. These functions together guarantee your operating convenience at the highest level.

Sensomatic for Vionaro

Standard cabinet with horizontal wooden stretcher



- Electro-mechanical opening system
- Sensomatic works with any Dynapro drawer design
- Activated by a light touch anywhere on the drawer front
- One drive unit for cabinets widths up to 48" (1219mm)
- Soft-closing action pulls the drawer closed
- Ideal for accessories such as wire baskets, waste bins, or roll-out trays
- Full extension for maximum access to drawer contents

1 Opening Unit



	Item No.	PU
For Dynapro	F121100268607	10

PU - 10 Pieces, individually packaged

2 Frame Sides, Including Frame Side Cable



Length	Item No.	PU
750mm	F121100285207	10
1170mm	F121100286207	10

PU - 10 Pairs

3 Frame Connector



	Item No.	PU
Frame connector	F121100282211	20

4 Fixing Bracket



	Item No.	PU
Fixing bracket	F121100270211	1

5 Power Supply Unit



	Item No.	PU
Power supply unit	F121100269607	10

PU = 10 pieces, individually packaged

One power supply operates up to 30 opening units

6 Connection Cable with 2-way-adapter



Length	Item No.	PU
1000mm	F121100289207	10
1600mm	F121100290207	10
2000mm	F121100291207	10

7 Power Cord, 1.8 m (6')



Type of plug	Item No.	PU
Power cord (USA, CA)	F120069760207	10

8 Spring-loaded Front Bumper

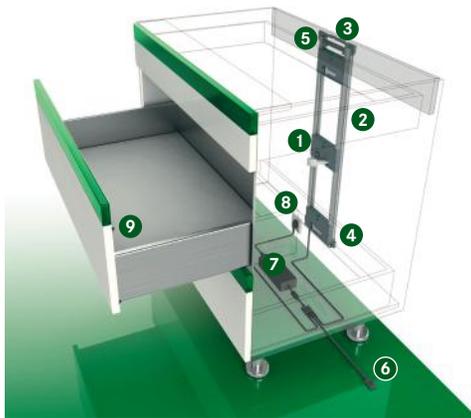


Ø 5mm	Item No.	PU
Front gap 2.2mm	F121100294223	100
Front gap 3mm	F121100295223	100

PU - Packaging unit

Sensomatic for Vionaro

Standard cabinet with vertical wooden stretcher



- Electro-mechanical opening system
- Sensomatic works with any Dynapro drawer design
- Activated by a light touch anywhere on the drawer front
- One drive unit for cabinets widths up to 48" (1219mm)
- Full extension for maximum access to drawer contents
- Soft-closing action pulls the drawer closed
- Ideal for accessories such as wire baskets, waste bins, or roll-out trays

1 Opening Unit



	Item No.	PU
For Dynapro	F121100268607	10

PU - 10 Pieces, individually packaged

2 Frame Sides, including Frame Side Cable



Length	Item No.	PU
750mm	F121100285207	10
1170mm	F121100286207	10

PU - 10 Pairs

3 Frame Connector



	Item No.	PU
Frame connector	F121100282211	20

4 Fixing Bracket



	Item No.	PU
Fixing bracket	F121100270211	1

5 Rear-mount Fixing Brackets



	Item No.	PU
Flush mount	F121100275207	10

6 Connection Cable with 2-way-adapter



Length	Item No.	PU
1000mm	F121100289207	10
1600mm	F121100290207	10
2000mm	F121100291207	10

7 Power Supply Unit



	Item No.	PU
Power supply unit	F121100269607	10

PU = 10 pieces, individually packaged
One power supply operates up to 30 opening units

8 Power Cord, 1.8 m (6')



Type of plug	Item No.	PU
Power cord (USA, CA)	F120069760207	10

9 Spring-loaded Front Bumper

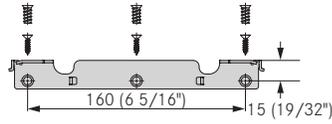
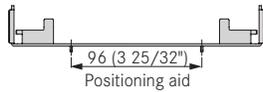


Ø 5mm	Item No.	PU
Front gap 2.2mm	F121100294223	100
Front gap 3mm	F121100295223	100

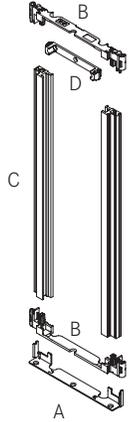
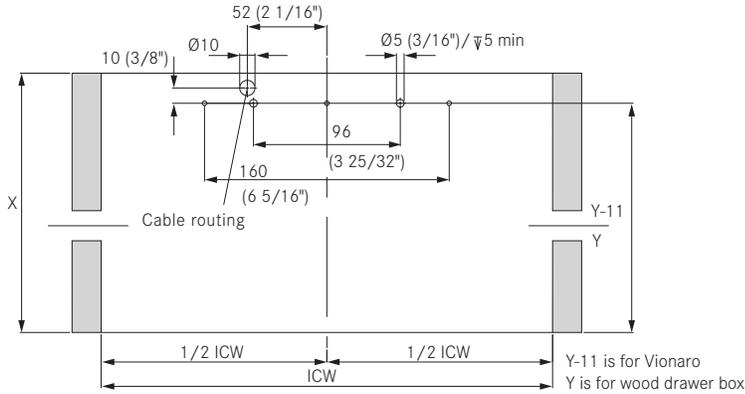
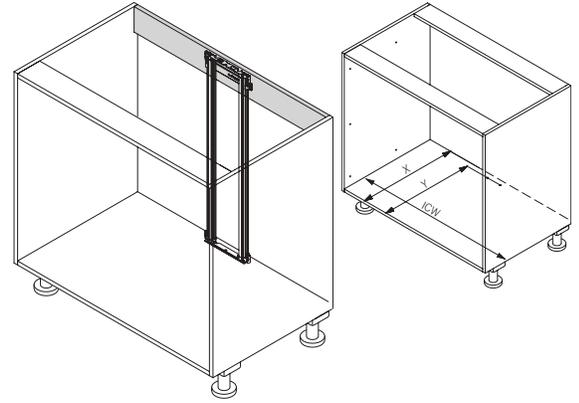
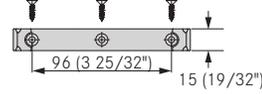
PU - Packaging unit

Mounting Dimensions

Fixing bracket positioned at bottom



Rear-mount fixing bracket (flush mount)



Mounting dimensions Dynapro	X (inside)	Y	Min ICW
Wood back panel	NL + 15 (19/32")	NL	273 (10 3/4")

Legend

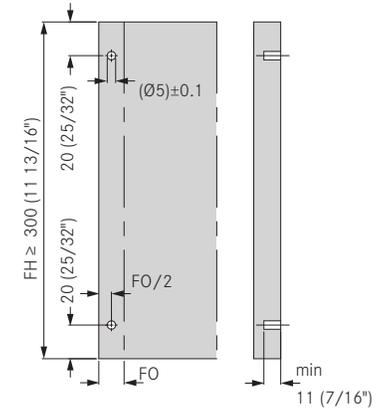
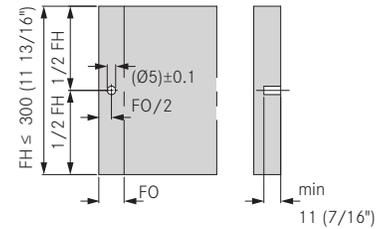
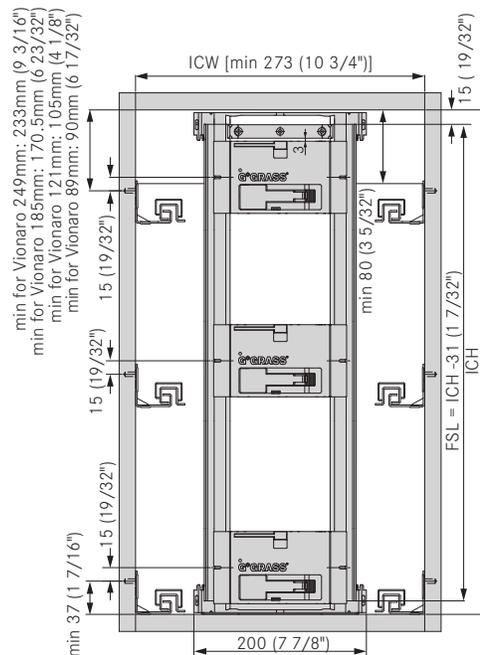
Position of Opening Unit for Dynapro

Position of Front Bumper

- A = fixing bracket used at top and bottom
- B = frame connector
- C = frame sides
- D = Rear mount fixing bracket, flush
- ICW = inside cabinet width
- NL = nominal length of cabinet slide
- X = min installation depth
- Y = depth of hole pattern

FSL = frame side length
ICH = inside cabinet height

FH = front height
FO = front overlay

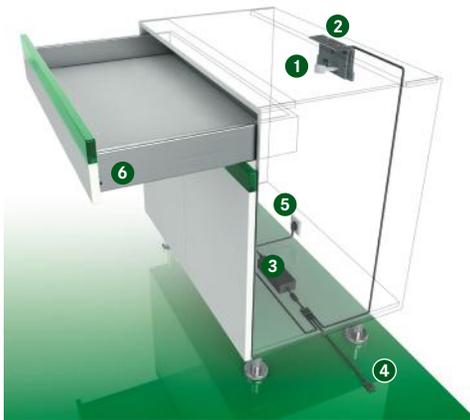


When mounting the heavy-duty slide (132 lb), it is necessary to insert 4 front bumpers into the drawer front.

Do not drive in or glue front bumpers

Sensomatic for Vionaro

Single drawer with top mounting



- Electro-mechanical opening system
- Sensomatic works with any Dynapro drawer design
- Activated by a light touch anywhere on the drawer front
- One drive unit for cabinets widths up to 48" (1219mm)
- Full-extension for maximum access to drawer contents
- Soft-closing action pulls the drawer closed
- Ideal for accessories such as wire baskets, waste bins, or roll-out trays

1 Opening Unit



	Item No.	PU
For Dynapro	F121100268607	10

PU - 10 Pieces, individually packaged

2 Frame for Top Assembly



	Item No.	PU
Height 120mm (4 23/32")	F121100272207	10

3 Power Supply Unit



	Item No.	PU
Power supply unit	F121100269607	10

PU = 10 pieces, individually packaged. One power supply operates up to 30 opening units

4 Connection Cable with 2-way-adapter



Length	Item No.	PU
600mm	F121100288207	10
1000mm	F121100289207	10
1600mm	F121100290207	10
2000mm	F121100291207	10

5 Power Cord, 1.8 m (6')



Type of plug	Item No.	PU
Power cord (USA, CA)	F120069760207	10

6 Spring-loaded Front Bumper

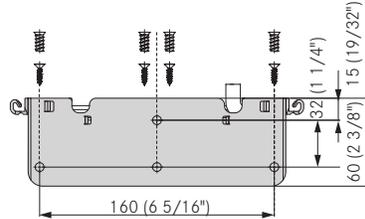
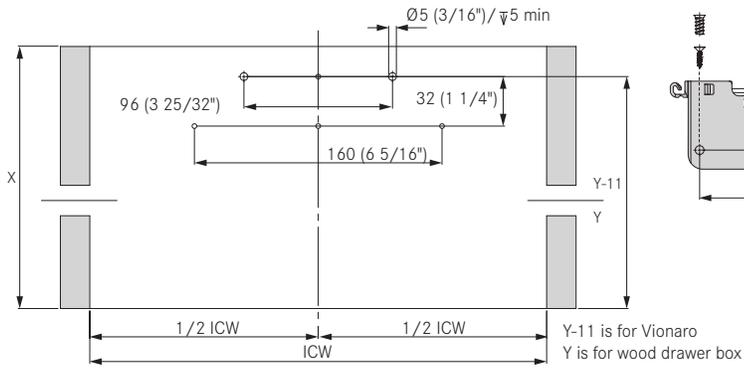
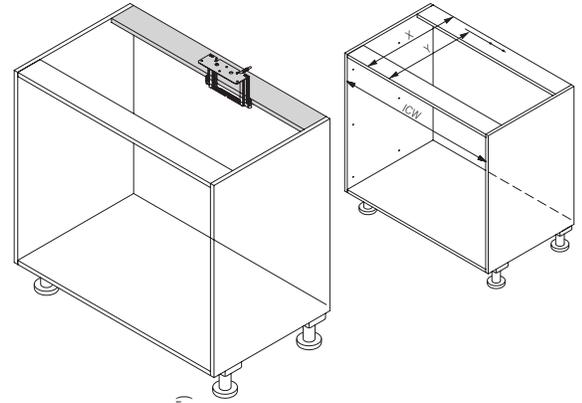
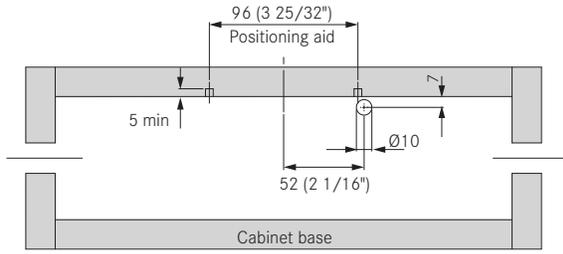


Ø 5mm	Item No.	PU
Front gap 2.2mm	F121100294223	100
Front gap 3mm	F121100295223	100

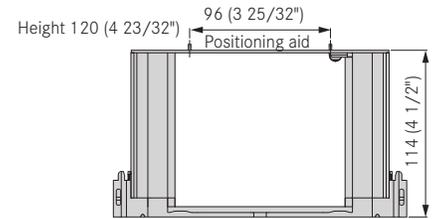
PU - Packaging unit

Mounting Dimensions

Back wall cabling



Mounting dimensions Dynapro	X (inside)	Y	Min ICW
Wood back panel	NL + 15 (19/32")	NL	273 (10 3/4")

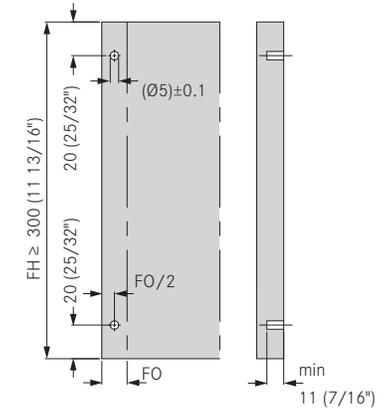
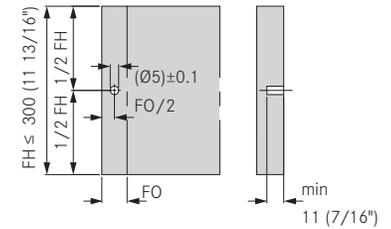
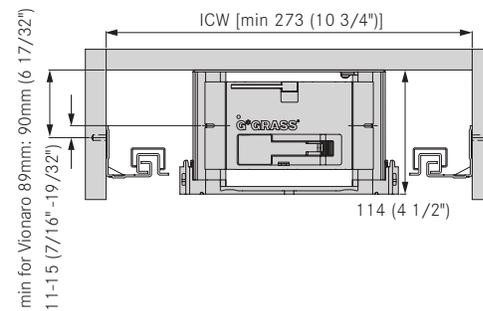


Legend

Position of Opening Unit for Dynapro

Position of Front Bumper

Height 120 (4 23/32")



ICW = inside cabinet width
 NL = nominal length of cabinet slide
 X = min installation depth
 Y = depth of hole pattern

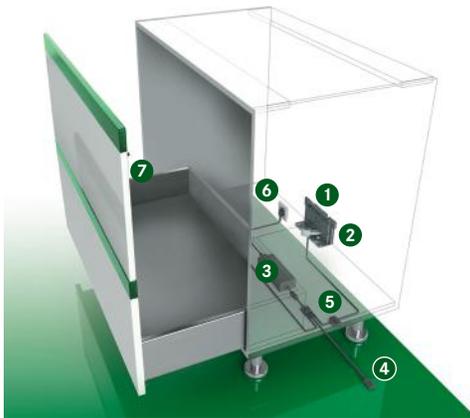
FH = front height
 FO = front overlay

When mounting the heavy-duty slide (132 lb), it is necessary to insert 4 front bumpers into the drawer front.

Do not drive in or glue front bumpers

Sensomatic for Vionaro

Waste bin cabinet with bottom panel frame mounting



- Electro-mechanical opening system
- Sensomatic works with any Dynapro drawer design
- Activated by a light touch anywhere on the drawer front
- One drive unit for cabinets widths up to 48" (1219mm)
- Full-extension for maximum access to drawer contents
- Soft-closing action pulls the drawer closed
- Ideal for accessories such as wire baskets, waste bins, or roll-out trays

1 Opening Unit



	Item No.	PU
For Dynapro	F121100268607	10
PU - 10 Pieces, individually packaged		

2 Base Frame



	Item No.	PU
for Dynapro	F121100271207	10

3 Power Supply Unit



	Item No.	PU
Power supply unit	F121100269607	10
PU = 10 pieces, individually packaged One power supply operates up to 30 opening units		

4 Connection Cable with 2-way-adapter



Length	Item No.	PU
1000mm	F121100289207	10
1600mm	F121100290207	10
2000mm	F121100291207	10

5 4-way-adapter



Type of plug	Item No.	PU
4-way-adapter	F121100293207	10

6 Power Cord, 1.8 m (6')



Type of plug	Item No.	PU
Power cord (USA, CA)	F120069760207	10

7 Spring-loaded Front Bumper



Ø 5mm	Item No.	PU
Front gap 2.2mm	F121100294223	100
Front gap 3mm	F121100295223	100

Sensomatic Kit



Set includes:

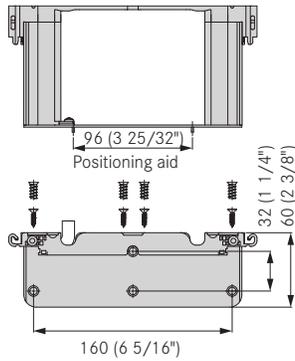
Opening unit: 1 Power cord: 1
 Base frame: 1 Front bumpers: 4
 Power supply unit : 1 (F121100294223)

	Item No.	PU
For Dynapro	F121100697201	1

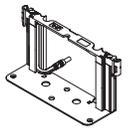
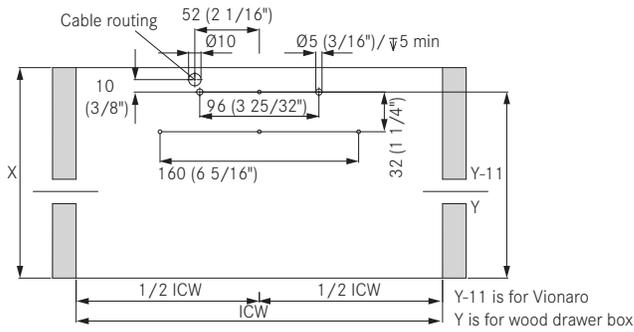
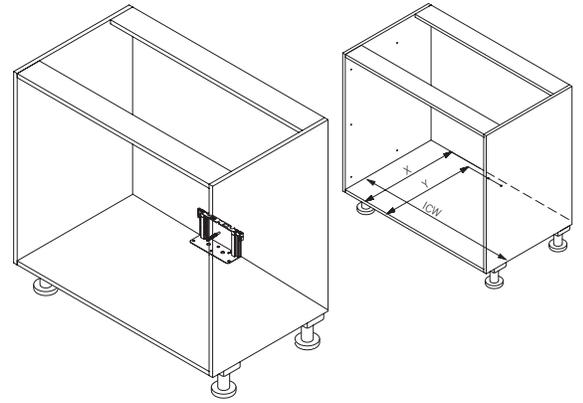
PU = 1 set

PU - Packaging unit

Mounting Dimensions



Base mounting



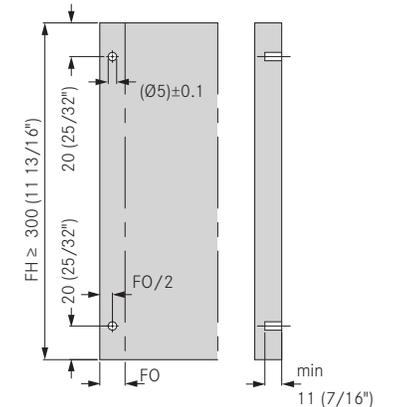
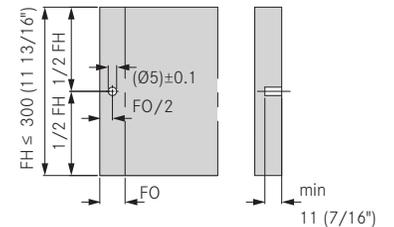
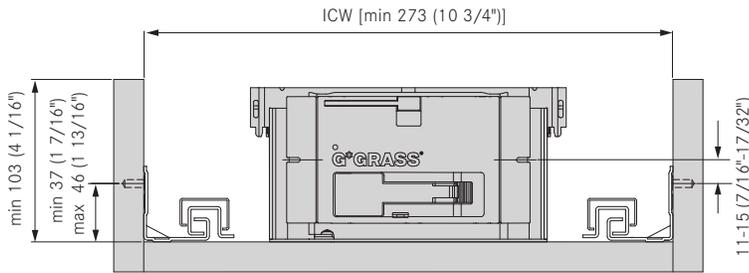
Base frame

Mounting dimensions Dynapro	X (inside)	Y	Min ICW
Wood back panel	NL + 15 (19/32")	NL	273 (10 3/4")

Legend

Position of Opening Unit for Dynapro

Position of Front Bumper



ICW = inside cabinet width
 NL = nominal length of cabinet slide
 X = min installation depth
 Y = depth of hole pattern

FH = front height
 FO = front overlay

When mounting the heavy-duty slide (132 lb), it is necessary to insert 4 front bumpers into the drawer front.

Do not drive in or glue front bumpers



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