

Elegancy moves.



G* GRASS®

»» novapro

Technical manual

Nova Pro - General Information

Grass Nova Pro full extension



All in all a new dimension.

Making something good even better was our challenge. And almost everything about Grass Nova Pro is new – from the profile through the runner and rollers to the synchronization, the automatic closing system and the new Grass Airmatic cushioning system.



Even greater stability.

The consumer does not see Nova Pro, the consumer experiences Nova Pro and associates this feeling with your brand. The good feeling of stability. The good feeling of quality workmanship – side stability, the quality of materials and the high quality finish of Grass Nova Pro.

Even better synchronisation.

A system in movement. Flowing. In harmony like the trained body of a champion – synchronized. No intermediate jolting when opening and closing the drawer.

Even better sliding.

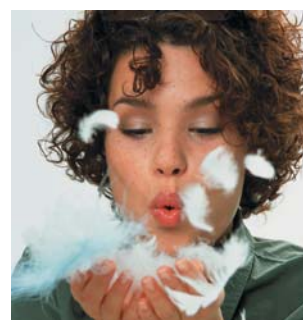
It doesn't slide – it glides. Grass Nova Pro gives your drawers wings. Silent and silky smooth. For the life of the furniture.

Even better cushioning with air.

A long braking distance. Not recommended on the road, but a sign of quality in the kitchen. The Nova Pro Airmatic air cushioning system has been redesigned, reconstructed and rebuilt, so that you can actually sense the word "Comfort" every day.

For you, for the trade, the fitter... the purchaser.

"Small" features with great value – Nova Pro has a whole series of them. The interior tilt adjustment, for example. This does not sound much but, as all fitters are aware, it counts for a lot. Not to mention the purchaser who senses the smooth flow rather than sees it, particularly if it is not in harmony. Not to mention the salesman either, who can provide one good argument after another: your design, your brand, supported and, in the literal sense of the word, carried by Grass.



Using air as the operating medium provides reliable cushioning and ensures hygiene in the kitchen, with no fear of fluid leakage (e.g. oil)



New: Even stronger and more stable, with perfect automatic closure system.



New: The excellent synchronisation.



New: The multi-function part to accommodate the new Airmatic cushioning system and for fitting and removing without the need for tools.

Nova Pro - General Information



Classic and deluxe decor



The new, longer apron to cover the slide system and optimise the overall design.

The new decor in heights 63 mm, 90 mm and 122 mm. With a longer concealing edge for optimal coverage of the slide. With a new tilt adjustment in the case of decor height 122 mm. The welded decor retains the same

overall dimensions, the installation dimensions for the bottom and back panels and the hole positions in the front and cabinet.

All in all a lot of good reasons for promotion into the Champions League. Grass Nova Pro.

Reduced installation width and straight insides for more space.

The area you save with just 13 drawers using Grass Nova instead of conventional systems is enough to accommodate an entire extra drawer.



Valuable additional space with Grass Nova Pro. Straight insides and minimal installation width.



Grass Nova railing systems with lateral and transverse sub-compartments, bottle holders and more.

Variable and flexible: Grass Nova Pro and Grass Variosystem.



More compartments, more flexibility. Proven many times over are the virtually unlimited options for methodical storage. Not only is there space for everything, but everything has its right and proper place. The rectangular and round railings with variable lateral and transverse sub-compartments create

the same order as the cutlery inserts of the Grass Vario System. And just as the name suggests, Grass Vario stands for tremendous variety and flexibility, for wood and aluminium materials, for various heights, for fixed and changeable inserts.

Nova Pro - General Information

Benefits for your handling

Certifications

We make a continuous effort to improve performance and our achievements have won numerous awards as a result.

In Paris, Nova Pro has already been awarded the "Prix de l'innovation technique Adriano Ribera 2005" from approval, prize for innovation & technology this year.

A selection of these awards which have been confirmed by neutral testing centres are shown here (LGA, iF, Approfal, CTBA).



**PRIX DE L'INNOVATION TECHNIQUE
ADRIANO RIBERA - 2005**

Hygiene

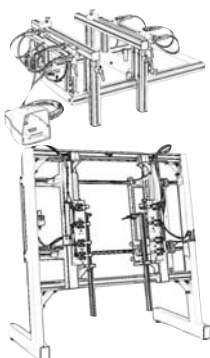
Hygiene is a major requirement in any kitchen. With Grass Nova, the non-toxic coating and the narrow cleaning lip, that's no problem at all.



Assembly is quick and easy!

In case of small series production, the Nova drawer clamp can be used to assemble a drawer with just a few manual movements.

The Nova Zargen press is recommended for larger serial production. You can assemble the Zargen slides, bottom and back panel in one operation.



Economical base panel cut

Simplest base panel cuts: spare yourself the grooving, drilling and bevelling of the bottom panel. Simply cut. It's done!

Advantage:

Fewer operations save money.



Bottom fastening

- No screws
- No grooves
- Connection by built-in spikes (patent pending)



Benefits for your assemblers

Installing and removing

The Nova drawers can be installed or removed with just one movement (with no levers to press).

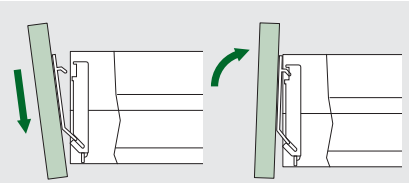
Front installation + removal (tool-free)

The drawer front panel can be attached or removed with one movement. Simple and tool-free!



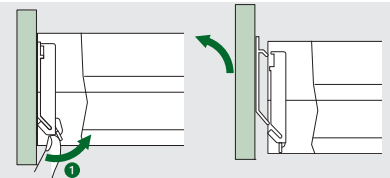
Assembly

1. Angle the front panel with the installation hooks into the lower slanted slot. (0-positioning with the installation hooks).
2. Tilt the front in and...
3. ...Press down.



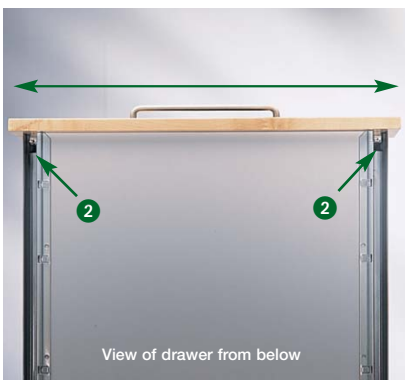
Removing

1. Press the catch ① and ...
2. ... Remove front panel.



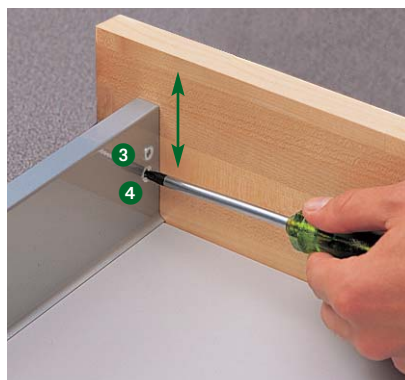
Tool-free side-adjustment

1. Press the catch hooks ② (left and right) to the back .
2. Lift the front up lightly and slide over the ribs.



Height adjustment

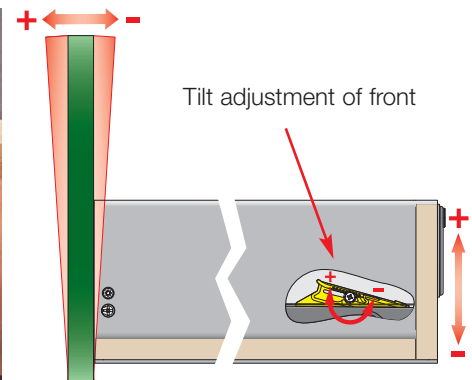
Lightly loosen screw ③ and slide the front with the eccentric screw ④ into the desired height position. Adjustment range ± 2 mm. Tighten screw ③.



Tilt adjustment of front

New for decor height 122 mm


Readily accessible tilt adjustment facility on the inside of the decor. The tilt adjustment is achieved by angling the drawer.




Nova Pro

Nova Pro - Program & Accessories

Round railing
page 12-13



Rectangle railing
page 14-15




Railing with front support
page 16-17



Spirit
page 18-19



Grass Partner special solution
page 59



Drilling and insertion machines
55-58

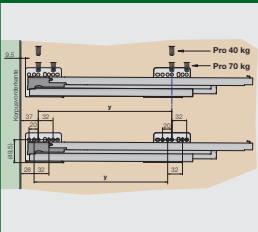


Installation jigs
page 52-54



Railing installation
page 46-49

Nova installation
page 44-45



Nova Crystal
page 42-43



Combine your

Decor Classic

Type P910
Decor height 63 mm

white 9010 + metallic 9006
length 400 - 550 mm



page 10-11

Decor Deluxe

Type P920
Decor height 90 mm

metallic 9006
length 270 - 650 mm



page 8-9

Type P920
Decor height 90 mm

white 9010
length: 270-600 mm
metallic 9006
length: 270-650 mm



page 10-11

Type P930
Decor height 122 mm

metallic 9006
length 400 - 600 mm



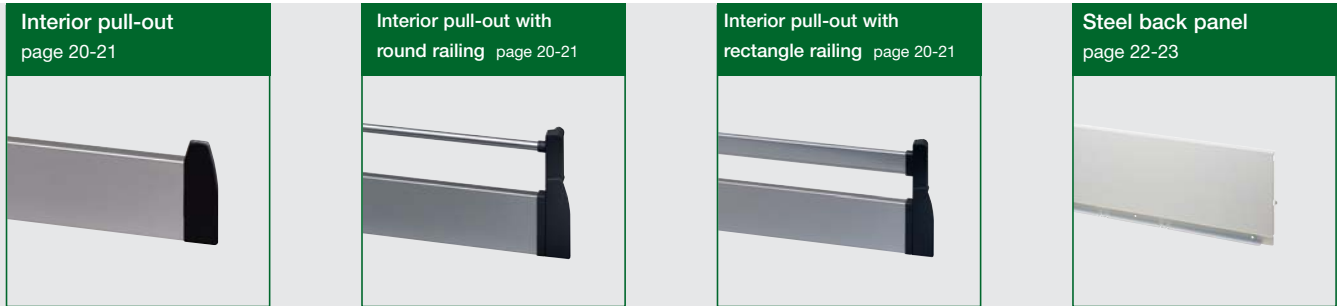
page 8-9

Type P930
Decor height 122 mm

white 9010 + metallic 9006
length 400 - 600 mm



page 10-11



Nova Pro slide system

Nova Pro cabinet member

Nova Pro full extension 40 kg

Type P904

Load 40 kg

length 270 - 600 mm



page 8 / 10

Nova Pro full extension 70 kg

Type P907

Load 70 kg

length 450 - 650 mm



page 8 / 10

Side stabilising device

page 24-25



Ino(x)sys

page 26-27



Accessories

page 38-41



Drawer divider

page 37



Plinth drawer

page 36



Vario System

page 28-35



Nova Pro

Deluxe

Nova Pro drawer



1 Nova Pro drawer

Full extension Nova Pro with Airmatic

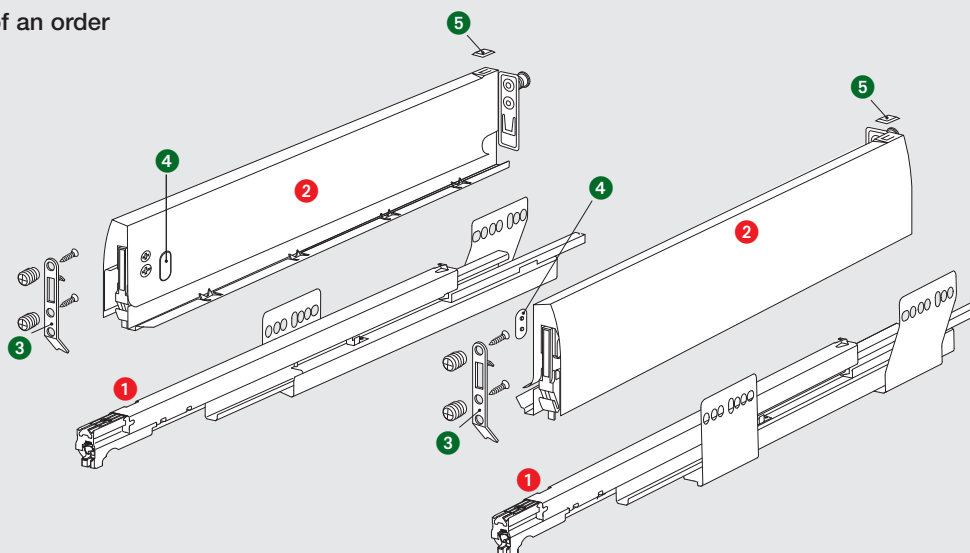


Full extension Nova Pro without Airmatic

Length	Type P904, 40 kg	Type P907, 70 kg	Type P904, 40 kg	Type P907, 70 kg
270 mm	63663-04 / -06		63681-06	
300 mm	63664-04 / -06		63682-06	
350 mm	63665-04 / -06		63683-06	
400 mm	63666-04 / -06		63684-06	
450 mm	63667-04 / -06	63711-04 / -06	63685-06	63699-06
500 mm	63668-04 / -06	63714-04 / -06	63686-06	63700-06
550 mm	63669-04 / -06	63717-04 / -06	63687-06	63701-06
600 mm	63670-04 / -06	63720-04 / -06	63688-06	63702-06
650 mm		63723-04 / -06		63703-06

PU 10 pairs (-04), 25 left and righthand cabinet member (-06)

Example of an order



Combination possibilities with Nova Pro Deluxe

Round railing



page 12-13

Rectangle railing with front support



page 16-17

Pull-out with Spirit



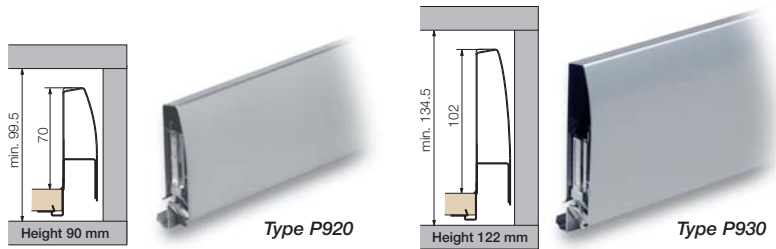
page 18-19

Vario System



page 28-35

Nova Pro Deluxe decor



2 Nova Deluxe decor in metallic RAL 9006

Length	Type P920, height 90 mm	Type P930, height 122 mm
270 mm	65000-04 / -08	
300 mm	65003-04 / -08	
350 mm	65006-04 / -08	
400 mm	65009-04 / -08	65156-04 / -08
450 mm	65012-04 / -11	65159-04 / -08
500 mm	65015-04 / -11	65162-04 / -08
550 mm	65018-04 / -11	65165-04 / -08
600 mm	65021-04 / -08	65168-04 / -08
650 mm	65024-04 / -08	

PU 10 pairs (-04), 50 left and righthand decors (-08), 150 left and righthand decors (-11)

Nova installation hooks & cover caps

3 Installation hook decor height 90 + 122 mm

Press in 32 mm	21854-23 / -42
Press in 50 mm	21153-23
Screw on	21855-42

PU 100 pcs. (-42), 1500 pcs. (-23)

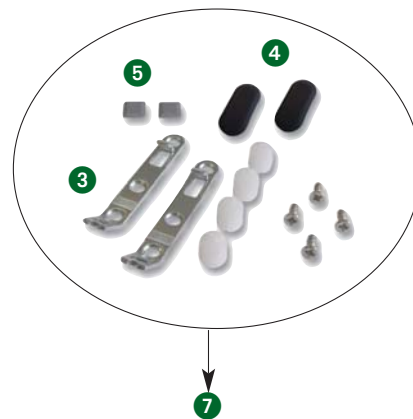
anthracite

4 Cover cap eccentric adjustment 27330-45

PU 1000 pcs.

	RAL 9010	RAL 9006
5 Cover caps - U-Cover	25820-xx	25821-xx

PU xx = 50 pcs. (-41), 1000 pcs. (-45)



7 Installation hook-set decor height 90 + 122 mm

Set metallic RAL 9006	61675-60
Set white RAL 9010	61674-60

PU 10 / à 1 pcs.

Railing



page 12-17

Nova Pro Spirit



page 18-19

Side stabilising device



page 24-25

Side stabilising device



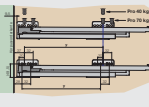
page 38-41

Nova Pro Crystal



page 42-43

Installation



page 44-45

Installation jigs



page 52-54

Grass Partner



page 59

Nova Pro

Classic

Nova Pro drawer



1 Nova Pro drawer

Full extension Nova Pro with Airmatic

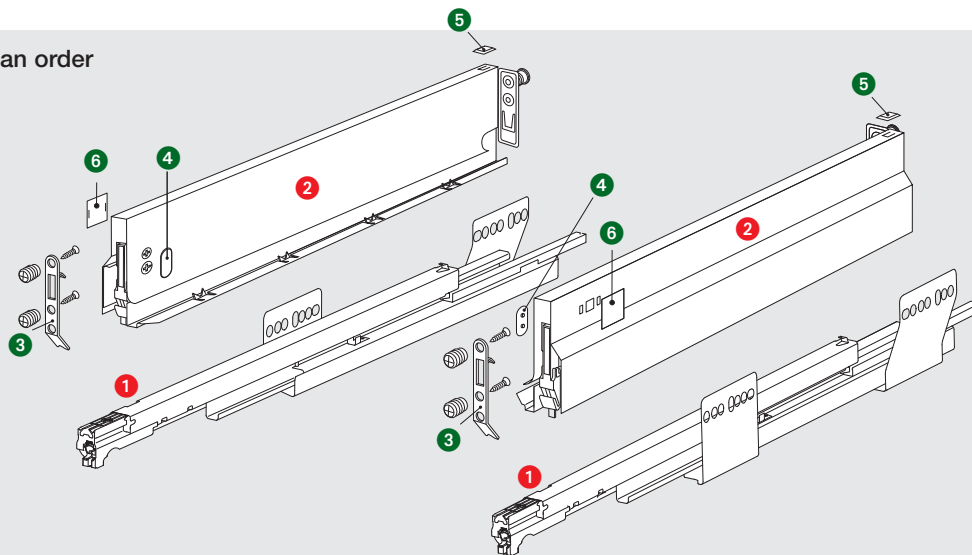


Full extension Nova Pro without Airmatic

Length	Type P904, 40 kg	Type P907, 70 kg	Type P904, 40 kg	Type P907, 70 kg
270 mm	63663-04 / -06		63681-06	
300 mm	63664-04 / -06		63682-06	
350 mm	63665-04 / -06		63683-06	
400 mm	63666-04 / -06		63684-06	
450 mm	63667-04 / -06	63711-04 / -06	63685-06	63699-06
500 mm	63668-04 / -06	63714-04 / -06	63686-06	63700-06
550 mm	63669-04 / -06	63717-04 / -06	63687-06	63701-06
600 mm	63670-04 / -06	63720-04 / -06	63688-06	63702-06
650 mm		63723-04 / -06		63703-06

PU 10 pairs (-04), 25 left and righthand cabinet member (-06)

Example of an order



Combination possibilities with Nova Pro Classic

Rectangle railing



page 14-15

Rectangle railing with front support



page 16-17

Pull-out with Spirit



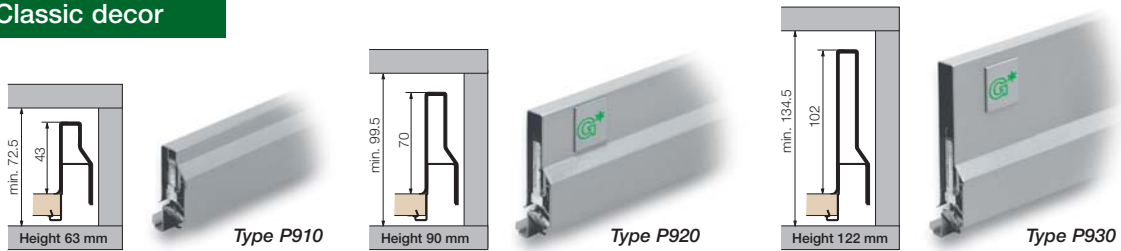
page 18-19

Vario System



page 28-35

Nova Pro Classic decor



2 Nova Classic decor in metallic RAL 9006

Length	Type P910, height 63 mm	Type P920, height 90 mm	Type P930, height 122 mm
270 mm		62886-04 / -08	
300 mm		62889-04 / -08	
350 mm		62892-04 / -08	
400 mm	62814-04 / -08	62895-04 / -08	62967-04 / -08
450 mm	62817-04 / -08	62898-04 / -11	62970-04 / -08
500 mm	62820-04 / -08	62901-04 / -11	62973-04 / -08
550 mm	62823-04 / -08	62904-04 / -11	62976-04 / -08
600 mm		62907-04 / -08	62979-04 / -08
650 mm		62910-04 / -08	

PU 10 pairs (-04), 50 left and righthand decors (-08), 150 left and righthand decors (-11)

2 Nova Classic decor in white RAL 9010

Length	Type P910, height 63 mm	Type P920, height 90 mm	Type P930, height 122 mm
270 mm		62913-04 / -08	
300 mm		62916-04 / -08	
350 mm		62919-04 / -08	
400 mm	62841-04 / -08	62922-04 / -08	65120-04 / -08
450 mm	62844-04 / -08	62925-04 / -11	65123-04 / -08
500 mm	62847-04 / -08	62928-04 / -11	65126-04 / -08
550 mm	62850-04 / -08	62931-04 / -11	65129-04 / -08
600 mm		62934-04 / -08	

PU 10 pairs (-04), 50 left and righthand decors (-08), 150 left and righthand decors (-11)

Nova installation hooks & cover caps

3 Installation hook decor height 63 mm

press in 20 mm	38331-23 / -42
screw on	38330-42
Set	29907-60

PU 100 pcs. (-42), 1500 pcs. (-23), Set 10 / à 1 pcs.(-60)

3 Installation hook decor height 90 + 122 mm

press in 32 mm	21854-23 / -42
press in 50 mm	21153-23
screw on	21855-42

PU 100 pcs. (-42), 1500 pcs. (-23)

	anthracite
4 Cover cap eccentric adjustment	27330-45

PU 1000 pcs.

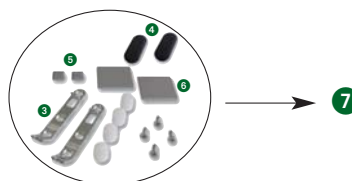
	RAL 9010	RAL 9006
5 Cover caps - U-Cover	25820-xx	25821-45

PU xx = 50 pcs. (-41) or 1000 pcs. (-45) or 1000 pcs.

6 Cover caps neutral	21856-xx	23015-54
----------------------	----------	----------

PU xx = 50 pcs. (-21) or 1000 pcs. (-45)

Custom logo upon request. Minimum order quantity 1000 pcs.



7 Installation hook-set decor height 90 + 122 mm

Set metallic RAL 9006	38094-60
Set white RAL 9010	38093-60

PU 10 / à 1 pcs.

Railing



page 12-17

Nova Pro Spirit



page 18-19

Side stabilising device



page 24-25

Side stabilising device



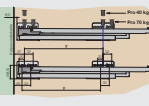
page 38-41

Nova Pro Crystal



page 42-43

Installation



page 44-45

Installation jigs



page 52-54

Grass Partner



page 59

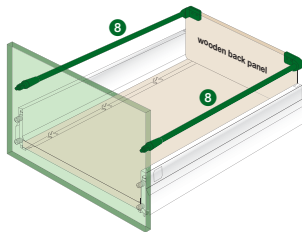
Nova Pro

Round railing set

Set for pull-out with wood back panel (with tilt adjustment of front)

Set consisting of:

- 2 Side railings with cover sleeve
- 2 Front railing clips to screw
- 2 Back railing clips to screw



Slide length/
Railing length

white
RAL 9010

metallic
RAL 9006

8 Set side round railing 7107/S-Rel/Set

300 / 276	45962-04	45969-04
350 / 326	45963-04	45970-04
400 / 376	45964-04	45971-04
450 / 426	45965-04	45972-04
500 / 476	45966-04	45973-04
550 / 526	45967-04	45974-04
600 / 576	45968-04	45975-04
650 / 626		68000-04

PU

10 Set

10 Set

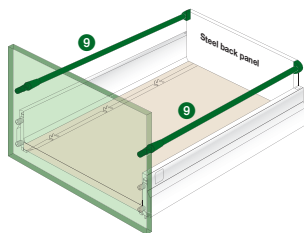
Set side railing RTA, toolless mounting with spread dowel upon request

Set for pull-out with steel back panel (with tilt adjustment of front)

Note: Tool-free installation (RTA)
on the front and back panel

Set consisting of:

- 2 Side railings with cover sleeve
- 2 RTA Front railing
- 2 RTA Back railing clips



Slide length/
Railing length

metallic
RAL 9006

9 Round railing 7107/RTA-fast assembly

270 / 246	45614-06
300 / 276	45615-06
350 / 326	45616-06
400 / 376	45617-06
450 / 426	45619-06
500 / 476	45620-06
550 / 526	45621-06
600 / 576	45622-06
650 / 626	62062-06

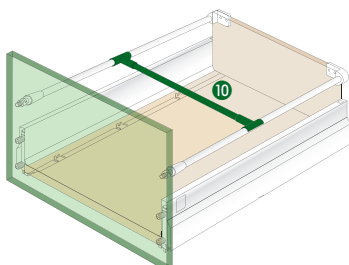
PU Set left + right
*on request

25

Set divider railing

Set consisting of:

- 1 Divider railing
- 2 Divider railing clips



Outer cabinet width/
Railing length

metallic
RAL 9006

10 Set divider railing P107/Q-Rel/Set (with 16 - 19 mm sides)

275 / 174	45992-04*
300 / 199	45993-04*
350 / 249	45994-04*
400 / 299	45995-04*
450 / 349	45996-04*
500 / 399	45997-04
550 / 449	45998-04*
600 / 499	45999-04
1000 to be cut to length	46016-04

PU

10 Set

*on request

Round railing

Pull-out with wood back panel (with tilt adjustment of front)	Pull-out with steel back panel (with tilt adjustment of front)
<p>The following is required $2 \times 1 + 1 \times 2 + 2 \times 3 + 2 \times 4 + \text{every } 1 \times 5 \text{ (left+right)} + 2 \times 7$</p>	<p>The following is required $1 \times 2 + 2 \times 3 + 2 \times 4 + \text{every } 1 \times 6 \text{ (left+right)} + 2 \times 7$</p>

Slide length/
Railing length

white
RAL 9010

metallic
RAL 9006

Outer cabinet width/
Railing length

white
RAL 9010

metallic
RAL 9006

1 Side round railing 7107/S-Rel

270 / 246	27162-09	27171-09
300 / 276	27163-09*	27172-09
350 / 326	27164-09	27173-09
400 / 376	27165-09	27174-09
450 / 426	27166-09	27175-09
500 / 476	27167-09	27176-09
550 / 526	27168-09	27177-09
600 / 576	27169-09	27178-09
650 / 626		53458-09

PU 100 pcs. 100 pcs.

anthracite
RAL 7016

2 Divider railing 7102/Q-Rel (with 16-19 mm sides)

300 / 199	27600-05	27608-09
350 / 249	27601-05*	27609-09
400 / 299	27618-05	27610-09
450 / 349	27603-05*	27611-09
500 / 399	27604-05	27612-09
550 / 449	27605-05	27613-05
600 / 499	27606-05	27614-09
1000 / 899	27607-05	27615-09
1200 / 1099	51650-05*	45032-09

PU *on request 20 pcs (-05) 100 pcs (-09)

anthracite
RAL 7016

3 Front railing clip 7600/Rel-ET

Press-in	27195-42
Screw-on	27196-42

4 Cover sleeve 7600/Abdeck-VER

	25703-42
--	----------

PU 100 pcs.

7 Divider railing clip P102

	65339-42
--	----------

PU 100 pcs.

5 Back railing clip 7107/Rel-HT

Press-in left	27248-41
Press-in right	27249-41
Screw-on left	27250-41
Screw-on right	27251-41

PU 50 pcs.

6 Steel-back panel clip 7107 HR/RTA

RTA clip left	45625-42
RTA clip right	45626-42

PU 100 pcs.

Outer cabinet width/
Railing length

metallic
RAL 9006

26 Round railing 7107/S-RF with front support

400 / 445	69732-05
450 / 445	69733-05
500 / 495	69734-05
550 / 545	69735-05

PU 20 pcs.

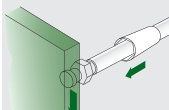
The following is required $2 \times 26 + 2 \times 3 + 2 \times 5 / 6$

Bottle holder



Page 39

Installation



page 46

Nova Pro

Rectangle shape railing set

Set for side railing

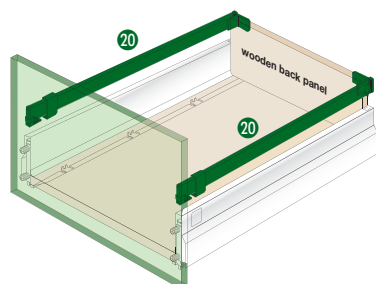
Slide length/
Railing length

white
RAL 9010

metallic
RAL 9006

Set consisting of:

- 2 Side railings
- 2 Front railing clips to screw
- 2 Cover caps
- 2 Back railing clips to screw



20 Set side railing 7607/S-Rel/Set

300 / 295	45851-04	45858-04
350 / 345	45852-04	45859-04
400 / 395	45853-04	45860-04
450 / 445	45854-04	45861-04
500 / 495	45855-04	45862-04
550 / 545	45856-04	45863-04
600 / 595	45857-04	45864-04
650 / 645		66918-04

PU

10 Set

10 Set

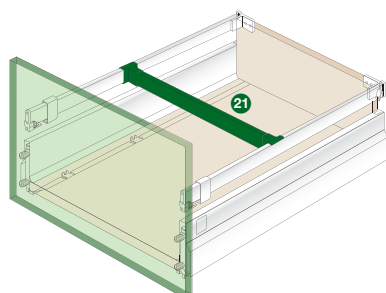
Set for divider railing

Outer cabinet width/
Railing length

metallic
RAL 9006

Set consisting of:

- 1 Divider railing
- 2 Divider railing clips



21 Set divider railing 7602/Q-Rel/Set (with 16 - 19 mm sides)

600 / 507	45890-04
1000 / 1000 to be cut to length	45891-04
1200 / 1107	51661-04

PU

*on request

10 Set

Rectangle shape railing

Pull-out with wood back panel (without tilt adjustment of front)	Pull-out with steel back panel (with tilt adjustment of front)
<p>The following is required</p> <p>$2 \times 11 + 1 \times 12 + 2 \times 13 + 2 \times 14 + 2 \times 19$</p> <p>For length divider: $1 \times 11 + 1 \times 18 + 1 \times 19$</p>	<p>The following is required</p> <p>$2 \times 11 + 1 \times 12 + 2 \times 15 + \text{every } 1 \times 16 \text{ (left+right)} + 2 \times 17 + 2 \times 19$</p> <p>For length divider: $1 \times 11 + 1 \times 18 + 1 \times 19$</p>

Slide length/
Railing length

white RAL 9010	metallic RAL 9006
-------------------	----------------------

Outer cabinet width/
Railing length

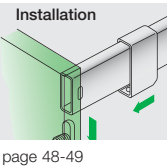
white RAL 9010	metallic RAL 9006
-------------------	----------------------

11 Side railing 7607/2S-Rel

270 / 265	96849-09	23017-09
300 / 295	21979-09	23018-09
350 / 345	98128-09	06701-09
400 / 395	96773-09	23020-09
450 / 445	21982-09	23021-09
500 / 495	21983-09	23022-09
550 / 545	21984-09	23023-09
600 / 595	21985-05**	23024-09
650 / 645		23025-09
PU	100 pcs.	100 pcs.

12 Divider railing 7602/Q-Rel (with 16-19 mm sides)

300 / 207	24967-09	24951-09
350 / 257	24968-09	24952-09
400 / 307	24969-09	24942-09
450 / 357	24970-09	24954-09
500 / 407	24971-09	24944-09
550 / 457	27678-05**	24956-09
600 / 507	24973-09	24946-09
1000 / 907	24976-08*	24958-08*
1200 / 1107	38429-08*	39805-08*
PU	**20/*50/100 pcs.	*50/100 pcs.



white RAL 9010	metallic RAL 9006
-------------------	----------------------

13 Front railing clip 6150 HF/neutral

Press-in	96360-42	
Screw-on	98829-39**	38505-42

14 Back railing clip 6150 HR

Press-in	96719-42	38507-42
Screw-on	96769-39**	38509-42

18 Front railing clip 6150 HRI

Press-in	97478-39**	38511-42
Screw-on	97480-39**	38513-42

19 Divider railing clip 6180 HU

	96770-42	38521-42
PU	**20 / 100 pcs.	100 pcs.

white RAL 9010	metallic RAL 9006
-------------------	----------------------

15 Front railing clip 6151 VHF/neutral

Press-in	55356-42	
Screw-on	55357-42	

16 Steel-back panel clip 7601 VHR/RTA

RTA clip left	45629-42*	45627-42
RTA clip right	45630-42*	45628-42

17 Cover cap 6151 AK

	55341-42	38516-42
PU	100 pcs.	100 pcs.

*on request

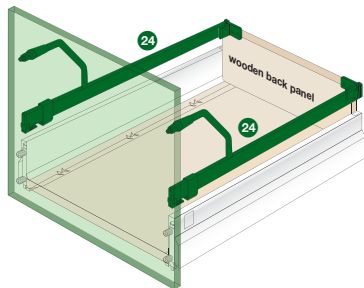
Nova Pro

Railing with front support set

Set for side railing

Set consisting of:

- 2 Side railings with front support
- 4 Front railing clips to screw
- 2 Cover caps
- 2 Cover sleeves
- 2 Back railing clips to screw



Slide length/
Railing length

white
RAL 9010

metallic
RAL 9006

24 Set Side railing 7607/2S RF with front support

400 / 445	59613-04	59042-04
450 / 445	48030-04	48034-04
500 / 495	48031-04	48035-04
550 / 545	48032-04	48036-04
600 / 595	48033-04	48037-04

PU

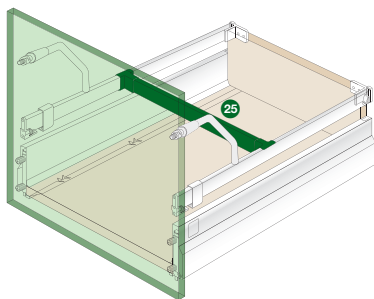
10 Set

10 Set

Set for divider railing

Set consisting of:

- 1 Divider railing
- 2 Divider railing clips



Outer cabinet width/
Railing length

metallic
RAL 9006

25 Set divider railing 7602/Q-Rel/Set (with 16 - 19 mm sides)

600 / 507	45890-04
1000 / 1000 to be cut to length	45891-04
1200 / 1107	51661-04

PU

* on request

10 Set

Railing with front support

Pull-out with wood back panel (with tilt adjustment of front)	Pull-out with steel back panel (with tilt adjustment of front)
<p>The following is required 2 x 24 1 x 23 + 2 x 19</p>	<p>The following is required 2 x 24 1 x 23 + 2 x 19</p>

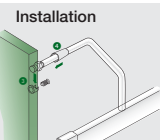
Outer cabinet width/ Railing length

white RAL 9010	metallic RAL 9006
-------------------	----------------------

23 Divider railing 7602/Q-Rel
(with 16-19 mm sides)

300 / 207	24967-09	24951-09
350 / 257	24968-09	24952-09
400 / 307	24969-09	24942-09
450 / 357	24970-09	24954-09
500 / 407	24971-09	24944-09
550 / 457	27678-05**	24956-09
600 / 507	24973-09	24946-09
1000 / 907	24976-08*	24958-08*
1200 / 1107	38429-08*	39805-08*

PU **20/*50/100 Stück *50/100 Stück



Installation
page 47

white RAL 9010	metallic RAL 9006
-------------------	----------------------

26 Back railing clip 7601 VHR

Press-in left	22142-39	38532-39
Press-in right	22143-39	38533-39
Screw-in left	22140-39	38534-39
Screw-in right	22141-39	38537-39

PU 20 pcs. 20 pcs.

15 Front railing clip 6151 VHF/neutral

Press-in	55356-39	55356-42
Screw-in	55357-39	55357-42

PU 20 pcs. 100 pcs.

3 Front railing clip 7600/Rel-ET

Press-in	27195-39	27195-42
Screw-in	27196-39	27196-42

PU 20 pcs. 100 pcs.

16 Steel-back panel clip 7601 VHR/RTA

RTA clip left	45629-42	45627-42
RTA clip right	45630-42	45628-42

PU 100 pcs. 100 pcs.

*on request

white RAL 9010	metallic RAL 9006
-------------------	----------------------

17 Cover cap 6151 AK

55341-39	55341-42	38516-39	38516-42
----------	----------	----------	----------

19 Divider railing clip 6180 HU

96770-39	96770-42	38521-39	38521-42
----------	----------	----------	----------

PU 20 pcs. 100 pcs. 20 pcs. 100 pcs.

Nova Pro

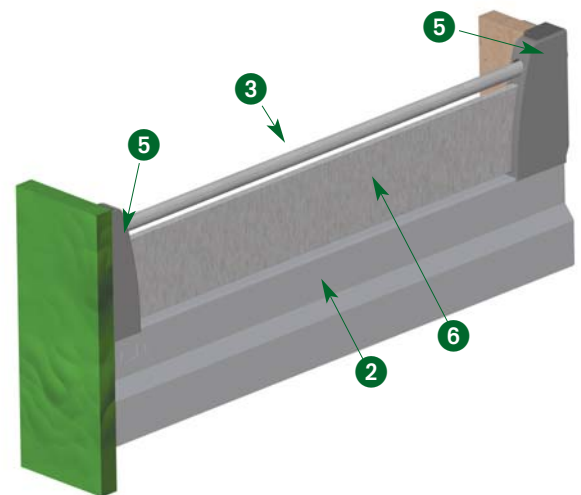
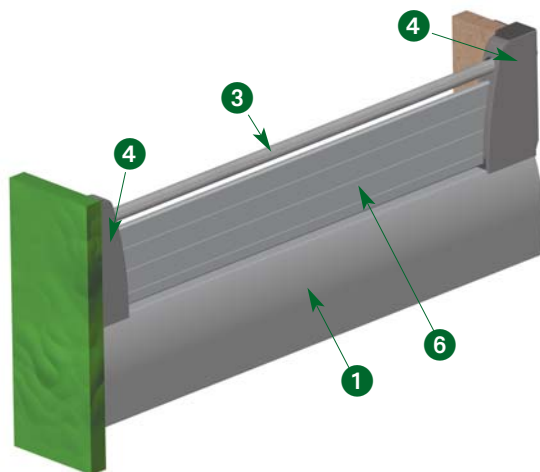
Spirit

Double-wall solution



Description:

- Can be used for Grass Nova Classic and Nova Deluxe with Round Railing
- Panel does not have to be machined → no drilling necessary
- Colour of cover caps: grey
- Tool-free installation (retrofitting also possible)
- Divider railing can be fitted
- Tilt adjustment of front by means of round railing
- No restrictions on use of Grass Vario System inserts
- Grass interior front is not possible



1 Nova Pro Deluxe (see page 8-9)
For drawer height **P920 / 90 mm** and **P930 / 122 mm**

3 Nova Pro round railing (see page 12-13)

4 Nova Spirit cover sets Deluxe

Cover caps	65411-04	65411-06
PU	10 Sets	25 Sets

2 Nova Pro Classic (see page 10-11)
For drawer height **P920 / 90 mm** and **P930 / 122 mm**

3 Nova Pro round railing (see page 12-13)

5 Nova Spirit cover sets Classic

Cover caps	65410-04	65410-06
PU	10 Sets	25 Sets

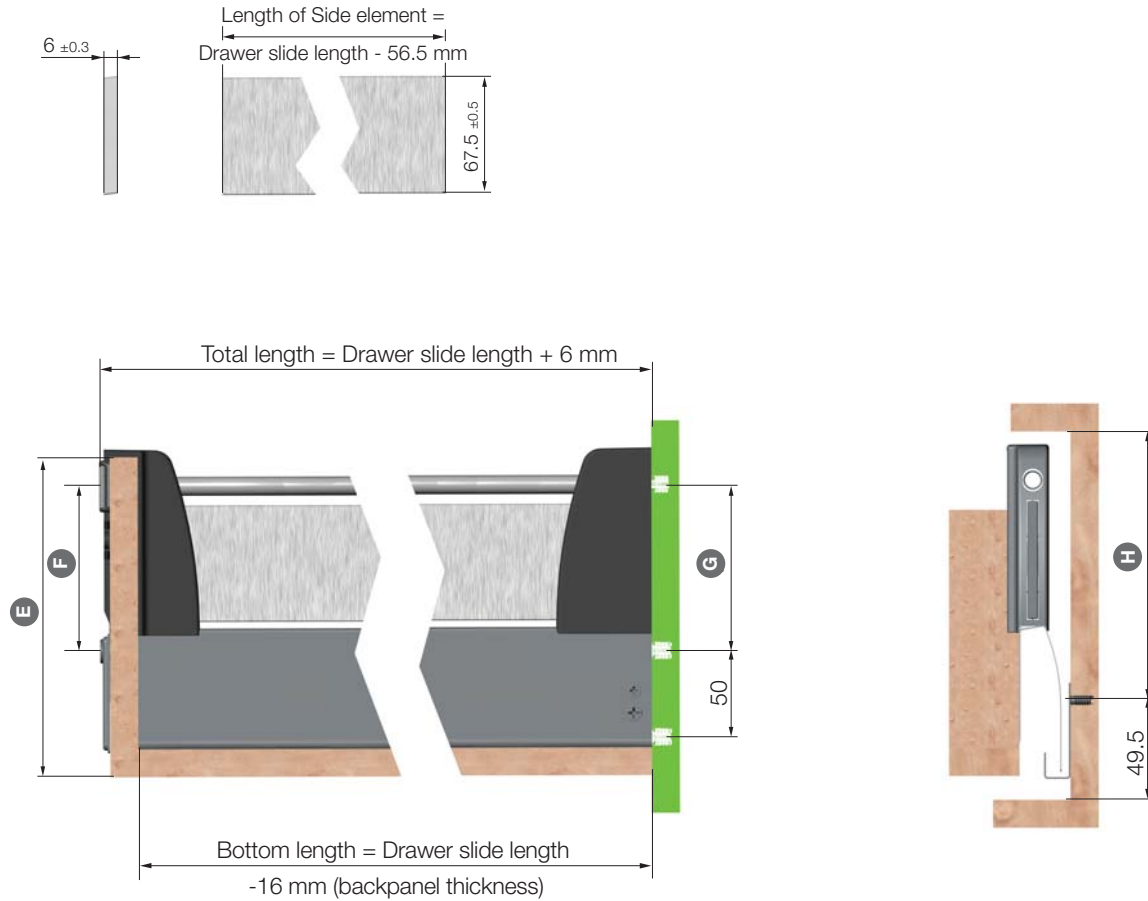
6 Nova Spirit side element, smooth or ribbed, in metallic RAL 9006

Packing unit	drawer length				
	450	500	550	600	650
10 Paar smooth	65399-04	65400-04	65401-04	65402-04	65403-04
25 Paar smooth		65400-06	65401-06*	65402-06*	65403-06
10 Paar ribbed	65405-04	65406-04	65407-04	65408-04	65409-04
25 Paar ribbed	65405-06*	65406-06	65407-06	65408-06	65409-06*

* on request

Installation

The side element may also be manufactured in glass or wood!



Wooden back panel

E	P920 / H90*	P930 / H122*
Measure E	185 mm	217 mm

F	P920 / H90*	P930 / H122*
Measure F	96 mm	96 mm

G	P920 / H90*	P930 / H122*
Measure G	96 mm	128 mm

H	P920 / H90*	P930 / H122*
Measure H	153.5 mm	188.5 mm

*	*P920 / H90:	Decor height 90mm
	*P930 / H122:	Decor height 122 mm

Nova Pro Deluxe

page 8-9

Nova Pro Classic

page 10-11

Railing

page 12-13

Nova Pro

Interior pull-out drawer

P620 Front

With this front you can turn your Nova drawer into an interior pull-out.

Suitable for Nova sides with a height of 90 mm.

Colours front:

white RAL 9010
metallic RAL 9006

Colour front panel holder:

anthracite RAL 7016

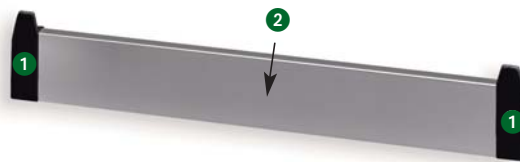
Example of an order:

For 5 Nova interior pull-out drawers

Side panels: 16 mm
Outer cabinet width: 500 mm
Colour: metallic RAL9006

This has to be ordered:

- 1 **Front panel holder**
Ord. No. 66500-03
- 2 **Front**
Ord. No. 51140-03



P620 Front - round railing

With this front you can turn your Nova drawer into an interior pull-out.

Suitable for Nova sides with a height of 90 mm.

Colours front:

white RAL 9010
metallic RAL 9006

Colour front panel holder:

anthracite RAL 7016

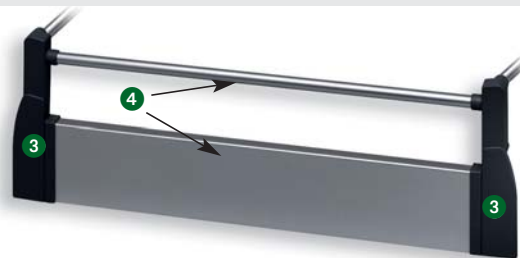
Example of an order:

For 5 Nova interior pull-out drawers with round railing

Side panels: 16 mm
Outer cabinet width: 500 mm
Colour: metallic RAL9006

This has to be ordered:

- 3 **Front panel holder**
Ord. No. 66502-03
 - 4 **Front**
Ord. No. 51192-03
- Side railing** for inner front must be ordered separately (page 13).



P620 Front - rectangle railing

With this front you can turn your Nova drawer into an interior pull-out.

Suitable for Nova sides with a height of 90 mm.

Colours front:

white RAL 9010
metallic RAL 9006

Colour front panel holder:

anthracite RAL 7016

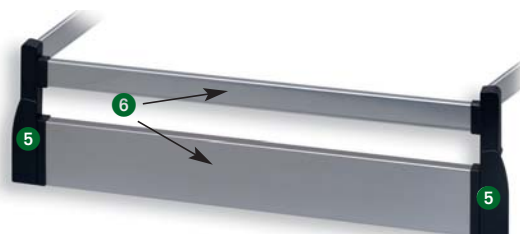
Example of an order:

For 5 Nova interior pull-out drawers with rectangle railing

Side panels: 16 mm
Outer cabinet width: 500 mm
Colour: metallic RAL9006

This has to be ordered:

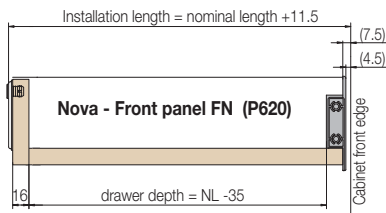
- 5 **Front panel holder**
Ord. No. 66501-03
 - 6 **Front**
Ord. No. 50966-03
- Side railing** for inner front must be ordered separately (page 15).



1 Nova front panel holder

Colour: anthracite RAL 7016

PU	Ord. No.
5 pair (left + right)	66500-03
50 pair (left + right)	66500-08



2 Nova front

Type	Width cabinet / actual	white RAL 9010	metallic RAL 9006
for 16 mm cabinet sides			
P620	300 / 183 mm	51124-03	51136-03
	500 / 383 mm	51128-03*	51140-03
	600 / 483 mm	51130-03	51142-03
	900 / 783 mm	51133-03*	51145-03
	1200 / 1083 mm	51135-03	51147-03

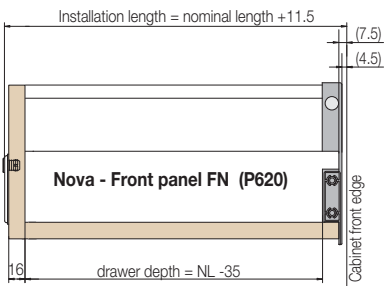
for 19 mm cabinet sides			
P620	600 / 477 mm	51154-03	51166-03
	900 / 777 mm	51157-03*	51169-03
	1200 / 1077 mm	51159-03	51171-03

PU 5 pcs. 5 pcs.
*on request

3 Nova front panel holder for round railing

Colour: anthracite RAL 7016

PU	Ord. No.
5 pair (left + right)	66502-03
50 pair (left + right)	66502-08



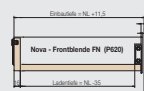
4 Nova front with round railing

Type	Width cabinet /actual	white RAL 9010	metallic RAL 9006
for 16 mm cabinet sides 16 mm			
P620	300 / 183 mm	50998-03*	51088-03
	500 / 383 mm	51080-03*	51092-03
	600 / 483 mm	51082-03*	51094-03
	900 / 783 mm	51085-03*	51097-03
	1200 / 1083 mm	51087-03*	51099-03

for 19 mm cabinet sides			
P620	600 / 477 mm	51106-03*	51118-03
	900 / 777 mm	51109-03*	51121-03
	1200 / 1077 mm	51111-03*	51123-03

PU 5 pcs. 5 pcs.
*on request

Installation

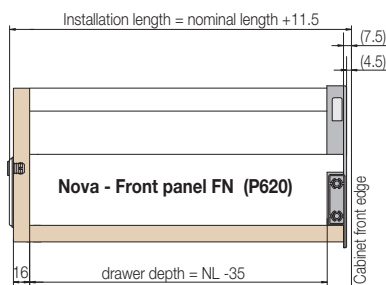


page 51

5 Nova front panel holder for rectangle railing

Colour: anthracite RAL 7016

PU	Ord. No.
5 pair (left + right)	66501-03
50 pair (left + right)	66501-08



6 Nova front with rectangle railing

Typ	Width cabinet /actual	white RAL 9010	metallic RAL 9006
for 16 mm cabinet sides 16 mm			
P620	300 / 183 mm	50950-03*	50962-03
	500 / 383 mm	50954-03*	50966-03*
	600 / 483 mm	50956-03*	50968-03
	900 / 783 mm	50959-03*	50971-03
	1200 / 1083 mm	50961-03*	50973-03

for 19 mm cabinet width 19 mm			
P620	600 / 477 mm	50980-03*	50992-03
	900 / 777 mm	50983-03*	50995-03
	1200 / 1077 mm	50985-03*	50997-03

PU 5 pcs. 5 pcs.
*on request

Calculation for the front panel width:
cabinet outside width – 2x drawer side wall thickness – 85mm (clip width)

Nova Pro

Steel back panel

Steel back panel for:

Nova Classic and Deluxe with decor height 90 mm



For 16 mm side panels

Type Outer cabinet width

metallic
RAL 9006

7628	300 mm	25001-08
	350 mm	25002-08
	400 mm	25003-08
	450 mm	25004-08
	500 mm	25005-08
	550 mm	25006-08
	600 mm	25007-08
	700 mm	25008-08
	800 mm	25009-08
	900 mm	25010-08
	1000 mm	25011-08
	1200 mm	47135-08

For 19 mm side panels

Type Outer cabinet width

metallic
RAL 9006

7628	300 mm	25012-08
	350 mm	25013-08
	400 mm	25014-08
	450 mm	25015-08
	500 mm	25016-08
	550 mm	25017-06
	600 mm	25018-06
	700 mm	25019-06
	800 mm	25020-06
	900 mm	25021-06
	1000 mm	25022-06
	1200 mm	45398-04

PU

50 pcs.

Steel back panel for:

Nova Classic and Deluxe with decor height 90 mm in connection with Nova Side Cover, round- or rectangle railing



For 16 mm side panels

Type Outer cabinet width

metallic
RAL 9006

7628	300 mm	45345-06
	350 mm	45346-06
	400 mm	45347-06
	450 mm	45348-06
	500 mm	45349-06
	550 mm	45350-06
	600 mm	45351-06
	700 mm	45352-06
	800 mm	45353-06
	900 mm	45354-06
	1000 mm	45355-06
	1200 mm	48899-06

For 19 mm side panels

Type Outer cabinet width

metallic
RAL 9006

7628	300 mm	45369-06
	350 mm	45370-06
	400 mm	45371-06
	450 mm	45372-06
	500 mm	45373-06
	550 mm	45374-06
	600 mm	45375-06
	700 mm	45376-06
	800 mm	45377-04
	900 mm	45378-04
	1000 mm	45379-04
	1200 mm	50882-04

PU

25 pcs.

Steel back panel

Steel back panel for Nova Spirit and Nova Crystal:

Nova Classic and Deluxe with decor height 90 mm in connection with Nova Spirit and Nova Crystal

Nova steel back panel height 186 mm for Spirit



For **16 mm** side panels

Type Outer cabinet width

metallic
RAL 9006

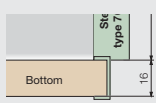
7628	300 mm	52563-06
	350 mm	52564-06
	400 mm	52565-06
	450 mm	52566-06
	500 mm	52571-06
	550 mm	52572-06*
	600 mm	52573-06
	700 mm	52574-06
	800 mm	52575-06
	900 mm	52576-06
	1000 mm	52577-06
	1200 mm	53265-06

Plastic adaptor



page 40

Installation



page 51

Please note that in the case of steel back panels, the bottom panel must be 6 mm longer

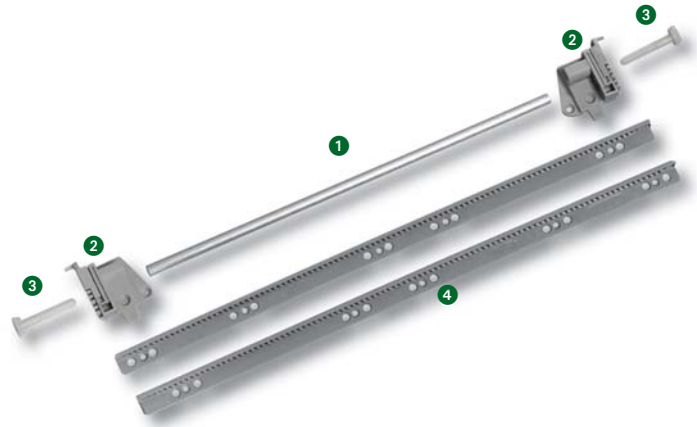
Colour white on request!

Nova Pro

Side stabilising device

The side stabilising device for extra-wide drawers

- Drawer width 900 -1500 mm
- Slide length 450 - 600 mm
- Cabinet sides 15 - 19 mm
- Torsion bar length = Outer cabinet width - 100 mm
- When fitting to a **wooden back panel**: dia. 4.2 x 20 chipboard screw
- When fitting to a **steel back panel**: dia. 4.8 x 13 sheet metal screw



Example of an order for the side stabilising device:

For 25 extensions with a length of 500 mm and a outer cabinet width of 1500 mm you need:

1x **Ord. No. 66389-06**, 25 torsion bars, 25 left and 25 right supports, 50 pinions
 1x **Ord. No. 50865-06**, 25 left and 25 right gliding channels

Options of packing:

Set 1/10

Torsion bar	1 pcs.
Support (left and right)	1 of each
Pinion	2 pcs.

1 box / 25 extensions

Torsion bar	25 pcs.
Support (left and right)	25 of each
Pinion	50 pcs.

1 Torsion bar, 2 support, 3 pinion

Outer width of cabinet	Ord. No.	Ord. No.
900 mm	66385-04	66385-06
1000 mm	66386-04	66386-06
1100 mm	66387-04	66387-06
1200 mm	66388-04	66388-06
1500 mm	66389-04	66389-06

PU

Set 1/10

1 box for 25 extensions

Note: For special outer width of cabinet, Torsion bar OCW -100 mmm

Options of packing:

Set 1/10

Gliding channel (left + right)	1 of each
--------------------------------	-----------

1 box / 25 extensions

Gliding channel (left + right)	25 of each
--------------------------------	------------

4 Gliding channel in metallic

Slide length	Ord. No.
450 mm	50864-04
500 mm	50865-04
550 mm	50866-04
600 mm	50867-04
650 mm	50868-04

PU

Set 1/10

Tin screw 4,8 x 13 mm (if a steel back panel is used)

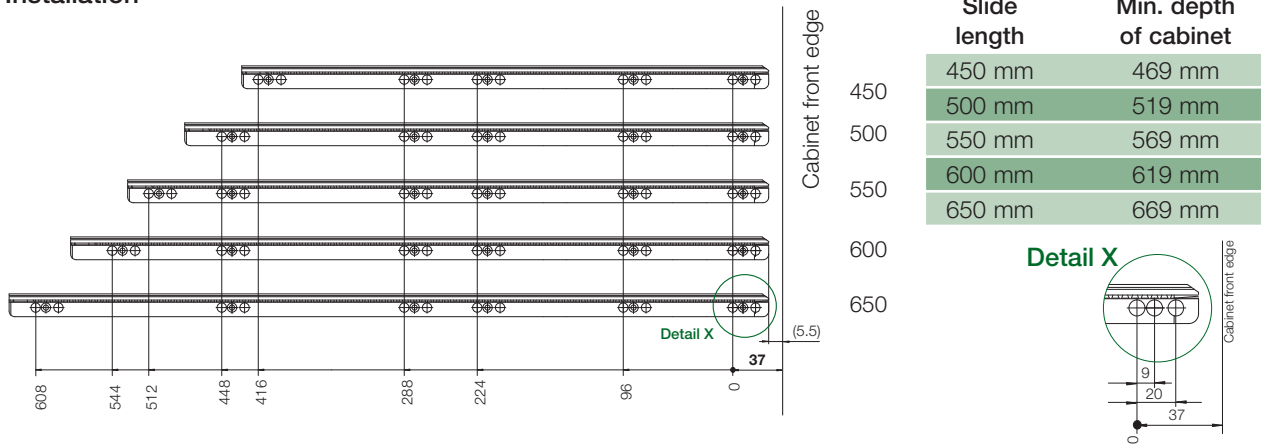
Tin screw	Ord. No.
	50869-42

PU

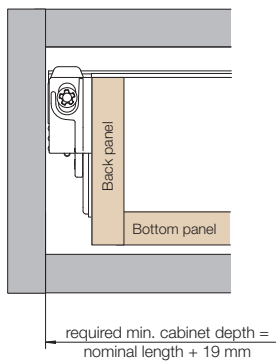
100 pcs.

Side stabilising device

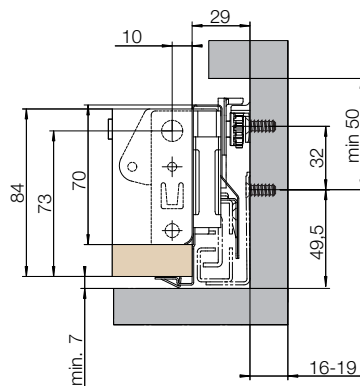
Installation



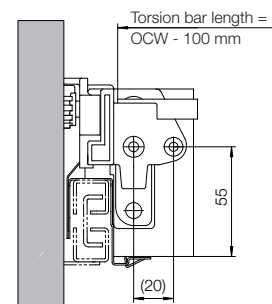
Installation measurement



Front view

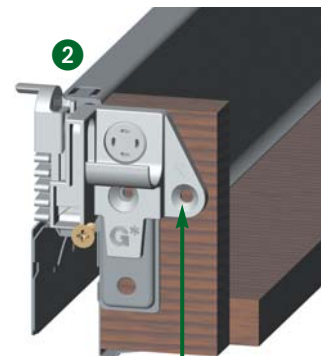
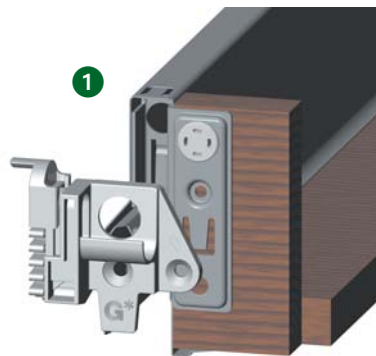


Rear view



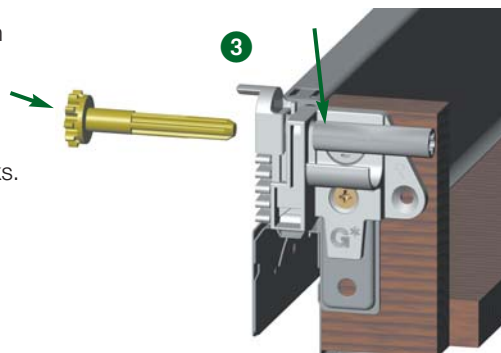
To fit the side stabilising device

- 1 Position the left and righthand supports
- 2 Screw on support. Depending on type of back panel, use either
for wood: chipboard screw dia. 4.2 x 20 mm
for steel: sheet metal screw dia. 4.8 x 13 mm

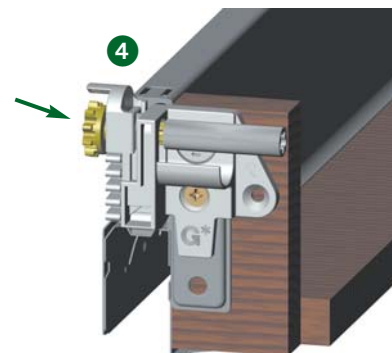


Additional 4.2 x 15 mm fastening possible in the case of wooden back

- 3 Insert torsion bar and push in pinion.



- 4 Push in the pinion until it locks. And that's it!



Ino(x)sys

General information

A tidy arrangement. That's Ino(x)sys.

Tidy, practical, clearly laid out – and at the same time extremely versatile. As well as providing neat solutions for many applications, the attractively styled trays in stainless steel - Ino(x)sys - offer a host of possibilities for added convenience in the day-to-day routine.



There is a place for everything. Ino(x)sys is ideal for organizing cutlery and small sundry items.



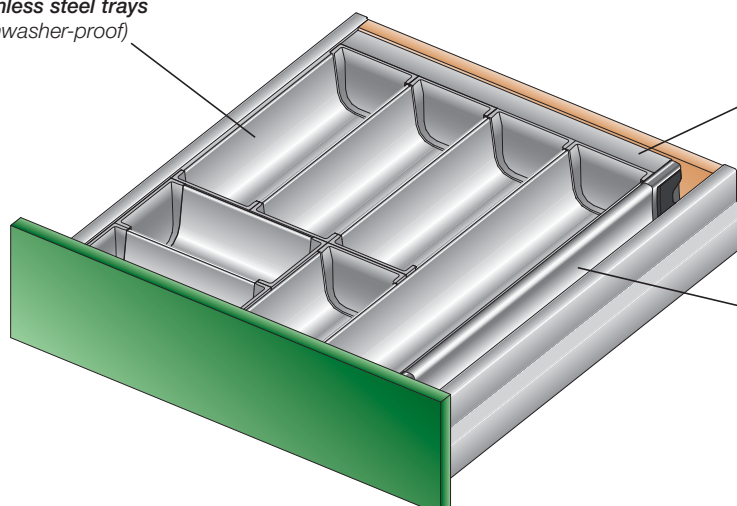
- Application: cutlery and sundries
- High-quality trays in stainless steel
- Hygiene-tested, non-toxic and corrosion-resistant - LGA certified
- For drawer lengths of 400mm to 550mm
- Optimally coordinated to make the best possible use of available space
- Dishwasher-proof stainless steel trays

Certification

We constantly improve our product performance and have already received numerous awards for our achievements. So it goes without saying that our Ino(x)sys has been tested in respect of hygiene, non-toxicity and corrosion resistance, and certified by the LGA.



Stainless steel trays
(dishwasher-proof)



Spacer in aluminium metallic
(not dishwasher-proof)

Stretcher in aluminium metallic
(not dishwasher-proof)

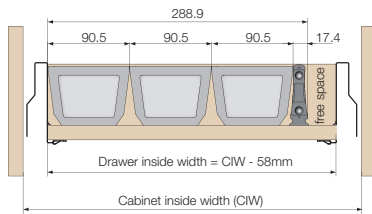
Installation and order

There's a place for everything. And you'll find everything in the right place.

Dimensional sketch

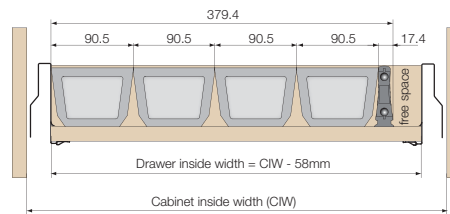
Ino(x)sys P620/B3

From outside cabinet width (OCW) 400 mm



Ino(x)sys P620/B4

From outside cabinet width (OCW) 500 mm



Stretcher

Nom. length	400	450	500	550
Stretcher Ino(x)sys	70245-06	70246-06	70247-06	70248-06
PU	25 pcs.	25 pcs.	25 pcs.	25 pcs.

Example matrix

Outer cabinet width	400	450	500	600	900	1000	1200
Drawer inside width	304 mm	354 mm	404 mm	504 mm	804 mm	904 mm	1104 mm
(for cabinet side wall 19 mm)							

Ino(x)sys P620/B3	1	1	-	-	1	1	-
Ino(x)sys P620/B4	-	-	1	1	1	1	2
Free space in mm	15	65	24	124	135	235	344
Front-bottom connector	-	-	-	-	yes	yes	yes

In the case of 16 mm cabinet side wall, there will be an additional 6 mm of free space!

For cabinet widths of 900mm and above, please use the Grass front-bottom connector

(Ord. No. 26744-38)



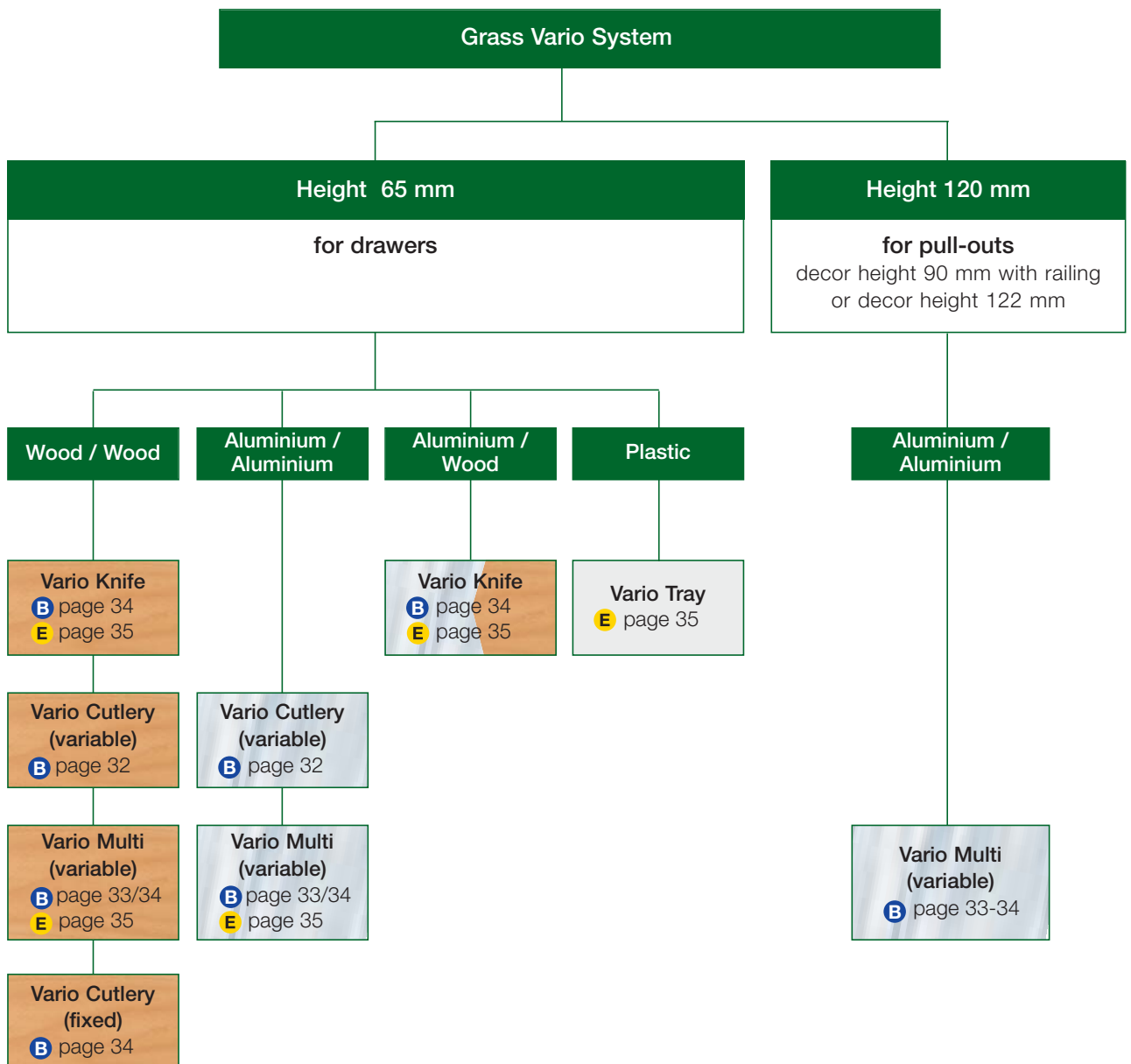
	Slide length 400	Slide length 450	Slide length 500	Slide length 550
P620/B3 From OCW 400				
	Ord. No. 66512-01	Ord. No. 66514-01	Ord. No. 66516-01	Ord. No. 66518-01
	Slide length 400	Slide length 450	Slide length 500	Slide length 550
P620/B4 From OCW 500				
	Ord. No. 66513-01	Ord. No. 66515-01	Ord. No. 66517-01	Ord. No. 66519-01

OCW = Outer cabinet width

Vario System

Overview

All you need at a glance



B = Basic module / **E** = Extension module

The drawer organizer - A tidy arrangement

Grass Vario System is a flexible drawer interior organizing system for Grass Nova drawers. Various modules can be combined together to provide optimal organization of the space available. Select from cutlery inserts, knife inserts and multi-functional trays made from wood, aluminium or moulded in plastic. All modules are available in 3 lengths (450, 500, 550 mm) and different widths.

- Different modules for different purposes
- In aluminium and wood
- Two height options
- Flexible divisions thanks to intelligent snap-in system



Different modules for different purposes

We offer you a choice of organizer options to suit the items you wish to store in the drawer, such as cutlery inserts, Vario trays or multi-functional modules.



Two different height options

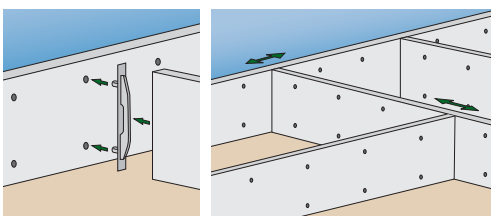
Select the height you need for your storage items: 65mm for cutlery and small utensils in drawers, or 120mm for food cartons, pans and lids in pull-outs.

Flexible divisions

One of the main features of Grass Vario System is its intelligent hole pattern which enables you and your customers to rearrange the organizer inserts as required. And it's all done in no time without the need for tools.

Choice of material

The organizers are available in classic aluminium and wood which not only underline the high quality of this system but also provide added value for our kitchens.



Vario System

Installation tips

Simple installation in three steps

- To ensure optimal use of the space you will always need a basic module
- If you are left with a residual width you can use this to fit an extension module.

1 Determine the inside drawer width

Before you select modules from the Grass Vario System, determine the cabinet inside drawer width.

Example

Outer cabinet width 900 mm
Cabinet side wall thickness 16 mm

2 Select a basic **B** modules

Once you have determined the drawer inside width, select one of the basic modules from the Grass Vario System.

Example

If you want to organize the complete drawer space, you will need to select **two** Grass Vario elements.
(here we are using a basic module with 508 mm)

3 Select an **E** extension module

If you are left with a residual width after selecting the basic module, an extension module can be added.

Example

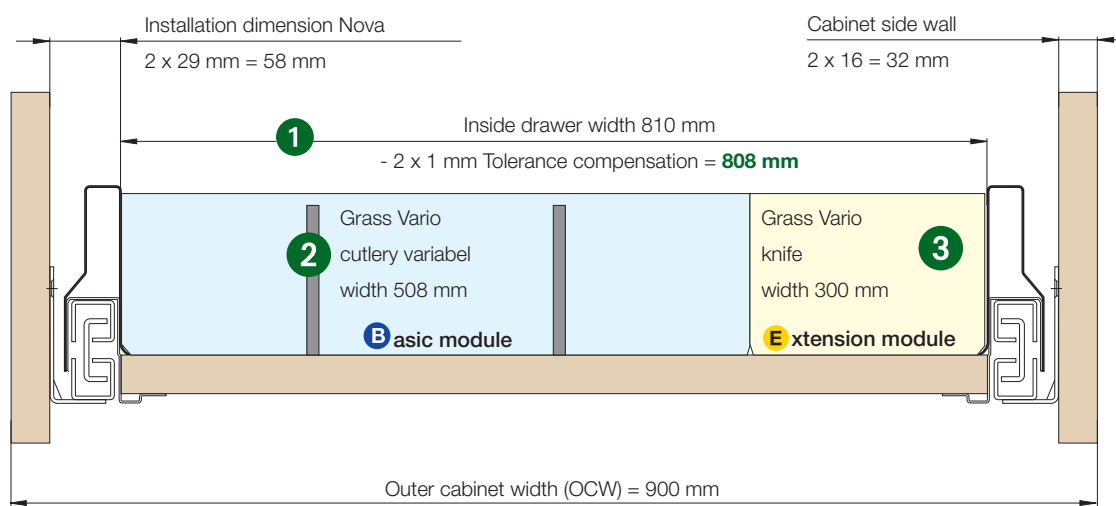
Fit 300 mm residual width with Grass Vario knife extension module - width 300 mm

How to calculate the inside drawer width

Outer cabinet width	900 mm
Cabinet side wall (2x 16)	- 32 mm
Installation dimension	- 58 mm
Tolerance compensation	- 2 mm
Inside drawer width	808 mm

How to calculate the required modules

Inside drawer width	808 mm
Basic module	- 508 mm
Residual width	300 mm



Your inside drawer width for the Grass Vario System:

Cabinet side wall thickness	Outer cabinet width									
	300	400	500	600	700	800	900	1000	1100	1200
16 mm	208	308	408	508	608	708	808	908	1008	1108
19 mm	202	302	402	502	602	702	802	902	1002	1102

Examples

Example 1

Outer cabinet width: 400 mm

Height: 65 mm

Width of internal drawer dimension:

Side panel of cabinet 16 mm ⇒ 308 mm

Side panel of cabinet 19 mm ⇒ 302 mm

Fitted with:

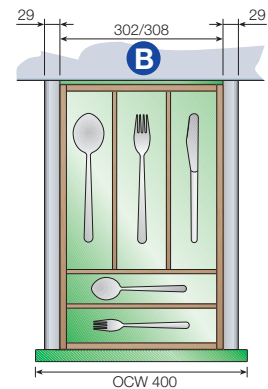
B Basic module:

- Grass Vario Cutlery (fixed)
(width 302/308 mm; beech)

Fitted with:

B Basic module:

- Grass Vario Cutlery (fixed)
(width 302/308 mm; beech)



Example 2

Outer cabinet width: 1000 mm

Height: 65 mm

Internal drawer dimension::

Side panel of cabinet 16 mm ⇒ 908 mm

Side panel of cabinet 19 mm ⇒ 902 mm

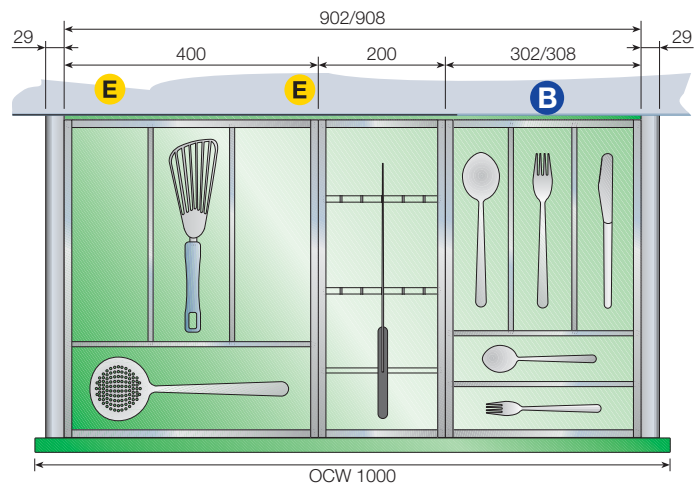
Fitted with:

B Basic module:

- Grass Vario Cutlery (variable)
(width 302/308 mm; aluminium)

E Extension module

- Grass Vario Knife
(width 200 mm; aluminium/beech)
- Grass Vario Multi
(width 400 mm; aluminium)



Example 3

Note: If the drawer is not completely fitted with Grass Vario System elements, several basic modules can be used.

Outer cabinet width: 1200 mm

Height: 120 mm

Width of internal drawer dimension:

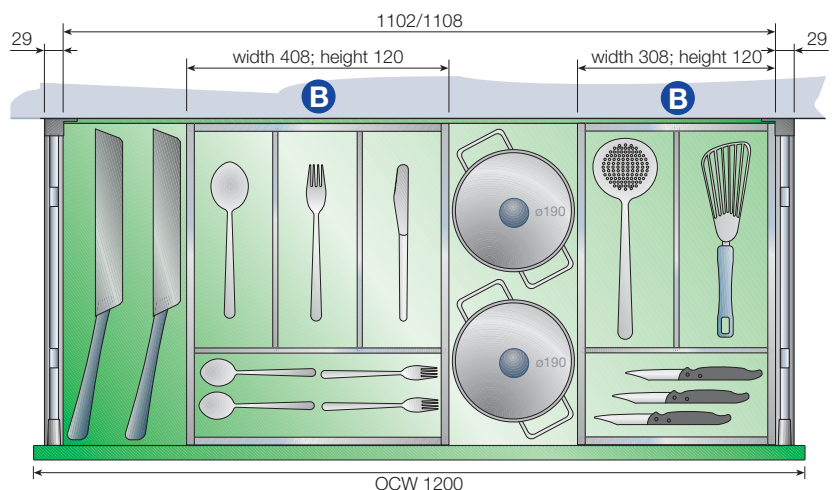
Side panel of cabinet 16 mm ⇒ 1108 mm

Side panel of cabinet 19 mm ⇒ 1102 mm

Fitted with:

B Basic modules:

- Grass Vario Multi
(width 408 mm; aluminium)
- Grass Vario Multi
(width 308 mm; aluminium)



Vario System

Basic module

Basic module / height 65 mm for decor height 90 mm

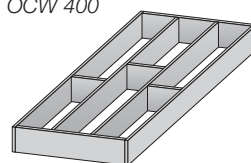
Grass Vario Cutlery (variable) **B**

Type 7620-VBV / height 65 mm

Note: Shown: OCW 400 mm

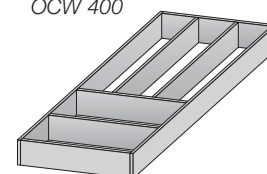
In the case of OCW 500 mm and 600 mm the Vario module will be one unit wider.

OCW 400



L 450

OCW 400



L 500 / L 550

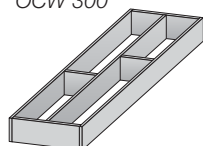
OCW / width	Side thickness	Material	Drawer length L 450 mm	Drawer length L 500 mm	Drawer length L 550 mm
400 / 308	16	aluminium	50605-01	50607-01	50609-01
500 / 408	16	aluminium	50355-01	50363-01	50371-01
600 / 508	16	aluminium	50357-01	50365-01	50373-01
400 / 302	19	aluminium	50604-01	50606-01	50608-01
500 / 402	19	aluminium	50354-01	50362-01	50370-01
600 / 502	19	aluminium	50356-01	50364-01	50372-01

Basic module / height 65 mm for decor height 90 mm

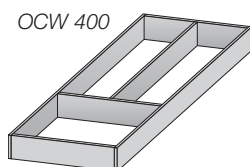
Grass Vario Multi **G**

Type 7620-VMU / height 65 mm

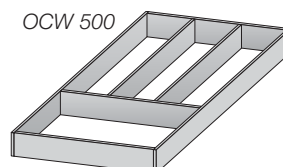
OCW 300



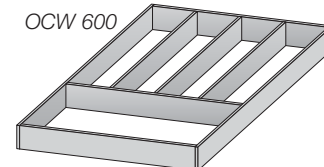
OCW 400



OCW 500



OCW 600



OCW / width	Side thickness	Material	Drawer length L 450 mm	Drawer length L 500 mm	Drawer length L 550 mm
300 / 208	16	aluminium	50415-01	50445-01	50475-01
400 / 308	16	aluminium	50417-01	50447-01	50477-01
500 / 408	16	aluminium	50420-01	50450-01	50480-01
600 / 508	16	aluminium	50422-01	50452-01	50482-01
300 / 202	19	aluminium	50414-01	50444-01	50474-01
400 / 302	19	aluminium	50416-01	50446-01	50476-01
500 / 402	19	aluminium	50419-01	50449-01	50479-01
600 / 502	19	aluminium	50421-01	50451-01	50481-01

OCW = Outer cabinet width

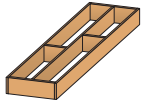
Basic module

Basic module / height 65 mm for decor height 90 mm

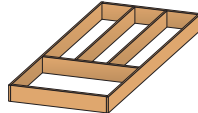
Grass Vario Multi

Type 7620-VMU / height 65 mm

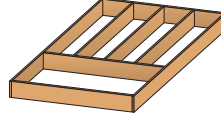
OCW 300



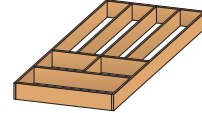
OCW 500



OCW 600



OCW 500/600



OCW / width	Side thickness	Material	Drawer length L 500 mm	Drawer length L 500 mm
300 / 208	16	beech	50435-01	
400 / 308	16	beech	50437-01	
500 / 408	16	beech	50440-01	50359-01
600 / 508	16	beech	50442-01	50361-01
300 / 202	19	beech	50434-01	
400 / 302	19	beech	50436-01	
500 / 402	19	beech	50439-01	50358-01
600 / 502	19	beech	50441-01	50360-01

Grass Vario Cutlery

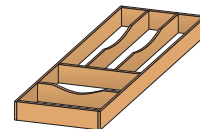
(variable) Type 7620-VBV

height 65 mm

Basic module / height 65 mm for decor height 90 mm

Grass Vario Cutlery (fixed)

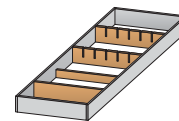
Type 7620-VBF / height 65 mm



OCW / width	Side thickness	Material	Drawer length L 450 mm	Drawer length L 500 mm
300 / 208	16	beech	50375-01	50379-01
400 / 308	16	beech	50377-01	50381-01
300 / 202	19	beech		50378-01
400 / 302	19	beech		50380-01

Grass Vario Knife

Type 7620-VME / height 65 mm



OCW / width	Side thickness	Material	Drawer length L 500 mm	Drawer length L 550 mm
300 / 208	16	aluminium / beech	50519-01	
400 / 308	16	aluminium / beech	50522-01	
300 / 202	19	aluminium / beech	50518-01	50524-01
400 / 302	19	aluminium / beech	50521-01	

Vario System

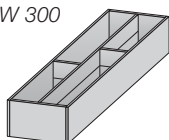
Basic module

Basic module / height 120 mm for decor height 90 mm with railing or decor height 122 mm

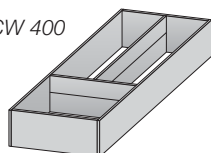
Grass Vario Multi **B**

Type 7630-VMU / height 120 mm

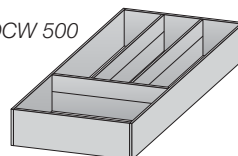
OCW 300



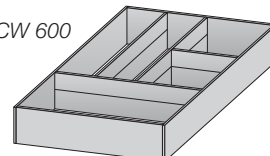
OCW 400



OCW 500



OCW 600



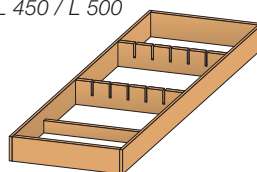
OCW / width	Side thickness	Material	Drawer length L 450 mm	Drawer length L 500 mm	Drawer length L 550 mm
300 / 208	16	aluminium	50569-01	50581-01	50593-01
400 / 308	16	aluminium	50431-01	50461-01	
500 / 408	16	aluminium	50571-01	50583-01	50595-01
600 / 508	16	aluminium	50573-01	50585-01	50597-01
300 / 202	19	aluminium	50568-01	50580-01	
400 / 302	19	aluminium	50430-01	50460-01	50490-01
500 / 402	19	aluminium	50570-01	50582-01	50594-01
600 / 502	19	aluminium	50572-01	50584-01	50596-01

Extension module / height 65 mm for decor height 90 mm

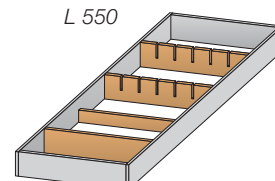
Grass Vario Knife **E**

Type 7620-VME / height 65 mm

L 450 / L 500



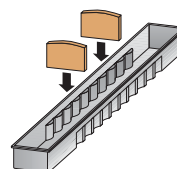
L 550



Width	Material	Drawer length L 450 mm	Drawer length L 500 mm	Drawer length L 550 mm
200	aluminium / beech	50511-01	50517-01	50523-01
300	aluminium / beech	50514-01	50520-01	50526-01
200	beech	50386-01	50392-01	

Grass Vario Tray **E**

Type 7620-VS / height 65 mm



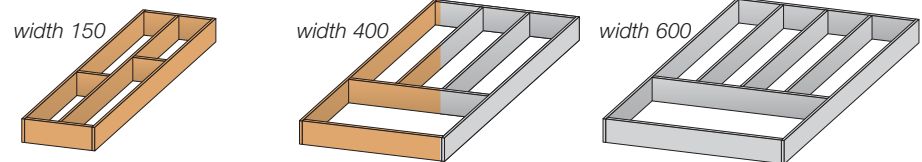
Width	Material	Drawer length L 450 mm	Drawer length L 500 mm	Drawer length L 550 mm
100	plastic / silver grey	50529-01	50530-01	50531-01

Extension module

Extension module / height 65 mm for decor height 90 mm

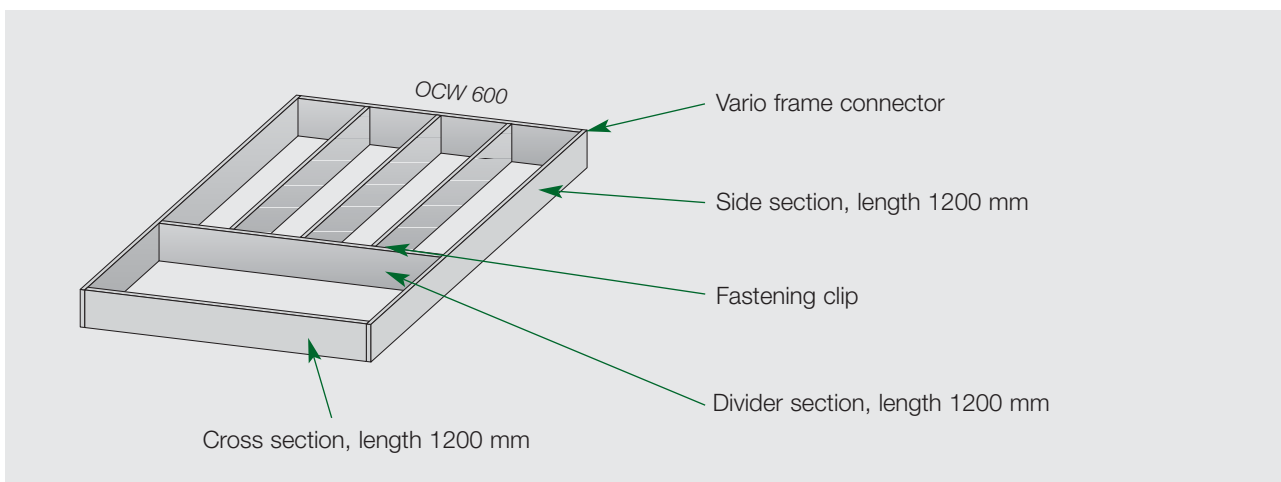
Grass Vario Multi **E**

Type 7620-VMU / height 65 mm



Width	Material	Drawer length L 450 mm	Drawer length L 500 mm	Drawer length L 550 mm
400	aluminium	50418-01	50448-01	50478-01
600	aluminium	50423-01	50453-01	50483-01
150	beech		53034-01	
400	beech	50408-01	50438-01	

Vario accessories – for self-assembly



Nom. length	Description	Ord. No.	PU
1200 mm	Vario side section in aluminium	69662-04	10 pcs.
1200 mm	Vario cross section in aluminium	69663-04	10 pcs.
1200 mm	Vario divider section in aluminium	69664-04	10 pcs.
	Vario frame connector	69665-38	10 pairs (left / right)
	Vario fastening clip	52934-99	10 pcs.

Nova Pro

Plinth drawer

The arguments at glance



Description:

- Plinth drawer in special cabinet (see figure) utilises the plinth area to gain extra storage space
- For storing heavy, bulky items such as e.g. beverage crates
- The plinth itself is raised when the drawer is pulled out, thus preventing it from scraping the floor
- Because of the large weights involved, the drawer must be pushed completely closed
- Grass standard Nova Pro drawer slides with Nova Classic or Nova Deluxe decors can be used

metallic RAL 9006

white RAL 9010

66414-04

66415-04

10 Sets

10 Sets

Side flaps: 20 supplied in the box, Pins: 20 supplied in a plastic bag Plinth lifting mechanism, left & right: 10 supplied in the box

Assembly instructions can be downloaded at www.grass.at

Technical description

- Slide length: 500 mm (only with Nova Pro heavy-load extension 70 kg)
- Gross load: 70 kg
- Width: no restriction, maximum plinth weight: 1.6 kg
- Cabinet member position: same as for standard cabinet
- Front: same as for standard cabinet, min. plinth height 150 mm
- Lifting movement of plinth front when drawer is opened approx. 15 mm

Application example



Sink drawer instead of blind front for additional storage space.

- Under the sink you have the option of creating valuable space with a full extension.
- Utensils such as sponges, tea towels, soap, etc. all have their place in the readily accessible sink drawer.
- For the sink drawer you need 2 pair standard decors and 1 pair cabinet members
- With the addition of a railing system, the sink drawer can be upgraded to provide extra storage space
- For a top-class sink drawer the single or double-wall solutions Nova Spirit or Nova Side Cover are available from Grass

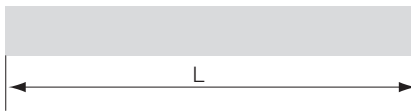
Assembly instructions can be downloaded at www.grass.at

Drawer divider

Storage space can be organised by dividing the drawer / pull-out without using railing systems – thanks to the Nova Pro drawer divider.

Compensation of the cabinet side wall thickness between 15 and 20 mm is no problem thanks to the elastic clamping element. In addition, the aluminium sections themselves can also be shortened. The drawer divider is available in RAL 9006 metallic.

Application



L = Outer cabinet width - 142mm



Outer cabinet width	Ord. no.
---------------------	----------

Drawer divider RAL 9006	
300 mm	69740-04
350 mm	69741-04
400 mm	69742-04
450 mm	69743-04
500 mm	69744-04
550 mm	69745-04
600 mm	69746-04
700 mm	69748-04
800 mm	69750-04
900 mm	69752-04
1000 mm	69754-04
1200 mm	69758-04

10 pcs.

Aluminium section drawer divider for cutting to size RAL 9006

1150 mm	70497-04
---------	----------

10 pcs.



Clamping element
(can be used left or right)

	70498-05
--	----------

20 pcs.

Railing divider

The Nova Pro railing divider for round railings makes light work of organising pull-outs. The tidy, space-saving organisation of storage space is becoming an increasingly important topic in kitchen use, particularly for storage items of different sizes.

Application



	Ord. no.
--	----------

Railing divider RAL 7016	
5 pcs.	69884-03
50 pcs.	69884-08

Nova Pro

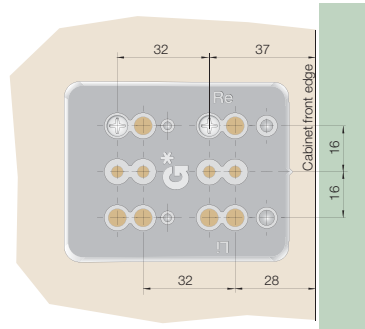
Accessories

Nova Pro Spacer Type P600

- Thickness 25 mm
- The hole pattern is suitable for Nova Pro
- The spacer can be used left and right

Installation see page 48

Installation measurement

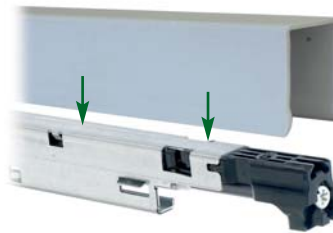


Type	Ord. No.
P600 Spacer	
20 pcs. white	62616-05
100 pcs. white	62616-09

Nova Protection Type P600

Installation cover for
Nova Pro cabinet member

Colour: grey
Length: 500mm



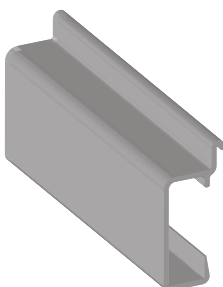
Type	Ord. No.
P600 Nova Protection	
10 pcs.	66378-04

Shock absorber retrofit for Nova Pro



Type	Ord. No.
Shock absorber retrofit	
PU 100 pcs.	70046-09

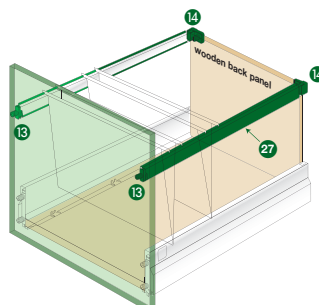
Extruded railing for filing cabinets system Type 6110/B-Rel



Consisting of:

- 2 Side railing
 - 2 Front railing clip
 - 2 Back railing clip
- } see page 14

2 Extruded railing
Installation see page 48



Technical information

Extruded railings are designed for cabinets with an outer measurement of 428 mm and a side panel thickness of 16 mm. Hanging files size DIN A4 can be used (DIN 821).

Color: metallic or white. Cut to desired

**length od adapter = Drawer length
- back panel thickness - 4.5 mm
Produced length
railing = 1100 mm**

length using hand or table saw.

27 Extruded railing 6110/B-Rel 1100	
RAL 9006	10095-05
RAL 9010	99062-05
PU	20 pcs.

Bottle holder for round railing Type 7102

- The holder can be used for the round railing system
- For flexibility in interior design
- Colour anthracite, RAL 7016

Installation measurement



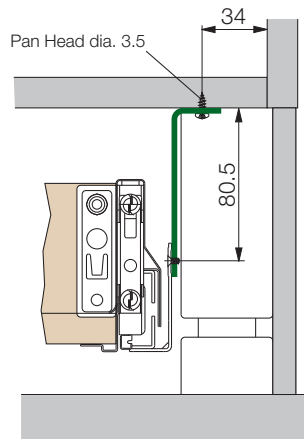
Type	Ord. No.
7102 Bottle holder	
20 pcs.	39287-39
100 pcs.	39287-09

Nova bracket for table top pull-outs Type 7600

The bracket is used to attach the cabinet member of the drawer slide if no side panel is available. The bracket can be used right or left. The brackets can be used for the entire Nova system.

The fastening screws (countersunk DIN 965/M4 x 8 with the Pozidrive #2) which connect the bracket to the Nova cabinet members, are included in the package.

Installation measurement

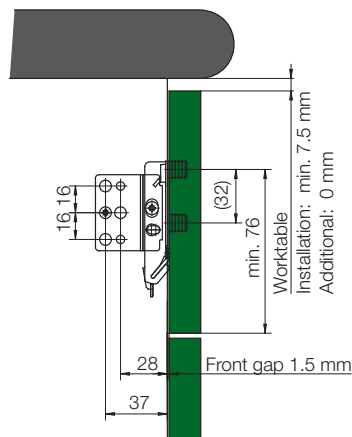


Type	Ord. No.
7600 Bracket for table top pull-outs	
20 pcs.	26875-05

Blind panel snap-on bracket Type 7600

- Install and remove without tools
- Quick and easy installation and removal of front panel with the Snap On feature

Installation measurements



Attention:
without front hooks



Type	Ord. No.
7600 Blind panel bracket	
50 pair	27739-08

Nova Pro

Accessories

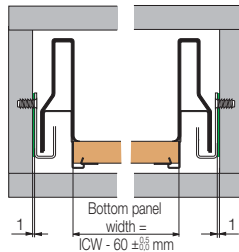
7600 Plastic adaptor

- Fits all Nova Pro slides
- Colour RAL 7035

The plastic adaptor allows a steel back panel and interior front panels **16** or **19** mm types to be used for **15** or **18** mm cabinet sides.

Assembly:

When using this plastic adaptor, the bottom must be cut 2 mm less in width.

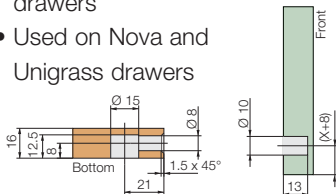


Plastic adaptor

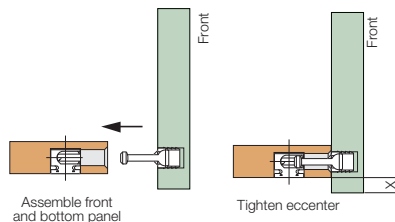
50 pcs.	65440-41
1.000 pcs.	65440-45

Base panel support connectors Typ 7600/Verbindung

- Front / base panel connectors to stabilize base panels on wide drawers
- Used on Nova and Unigrass drawers



Installation measurements



X = front overlay at bottom

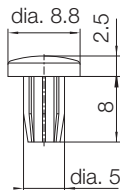


Front-base panel connector

10 pcs.	26744-38
100 pcs.	26744-09

Front buffer

Silent closing of the drawer or door due to soft buffer material. Suitable for automatic feed.

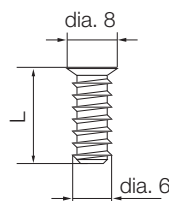


Front buffer

1.000 pcs.	44351-45
10.000 pcs.	44351-63

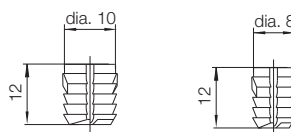
Euro screws

Steel, nickel-plated, for use in 5 mm diameter predrilled bore hole systems (Pozidrive #2)



Euro 6 x 11.5	83544-45
Euro 6 x 13	83545-45
Euro 6 x 14.5	83546-45
PU	1.000 pcs.
Euro 6 x 8.5	89301-58
Euro 6 x 17	87107-58
Euro 6 x 22	87108-58
PU	10.000 pcs.

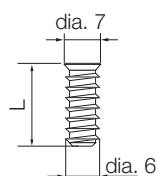
Dowel



dia. 10 x 12	05853-32
PU	10.000 pcs.
dia. 8 x 12	04885-32
PU	10.000 pcs.

Special Euro screws

Nickel, for use in 5 mm diameter predrilled bore hole systems (Pozidrive #2)



Euro 6 x 8.5	89355-42
Euro 6 x 13.5	88185-42
PU	100 pcs.

Huwil SVS-3 locking pin for Nova Pro Classic decor height 90 + 122 mm

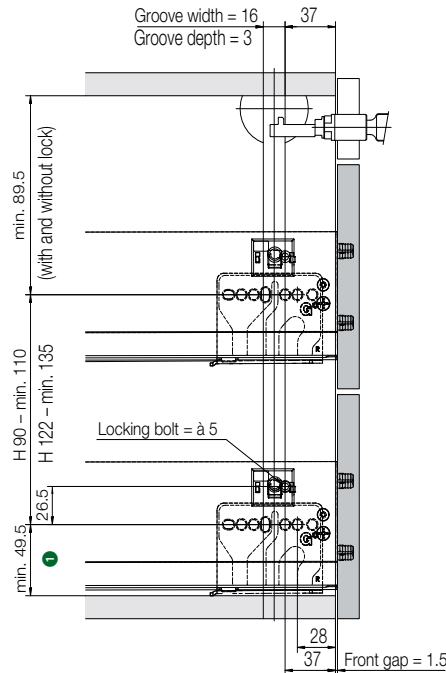
P600 Locking pin

Can only be used with the Nova Pro Classic decor height 90 / 122 mm in conjunction with the Huwil locking system SVS-3 (can be ordered directly from Huwil)

Colours:

white / RAL 9010
metallic / RAL 9006

Installation



- 1 26.5 mm for decor height 90 mm
51.5 mm for decor height 122 mm

When locking bar is grooved into sides



Locking pin white (Huwil)
100 pcs. **67899-42**

Locking pin metallic (Huwil)
100 pcs. **67900-42**

Note: When ordering the locking bar at Huwil, specify the position and the diameter (5 mm) of the locking bolts!

Ojmar 1038 locking pin for Nova Pro Classic decor height 90 + 122 mm

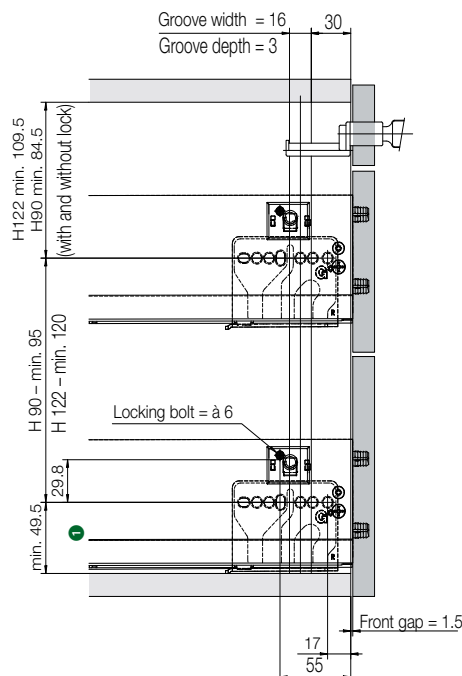
P600 Locking pin

Can only be used with the Nova Pro Classic decor in conjunction with the Ojmar locking system 1038 (can be ordered directly from Ojmar)

Colours:

white / RAL 9010
metallic / RAL 9006

Installation



- 1 29.8 mm for decor height 90 mm
54.8 mm for decor height 122 mm

When locking bar is grooved into sides



Locking pin white (Ojmar)
100 pcs. **67901-42**

Locking pin metallic (Ojmar)
100 pcs. **67902-42**

Note: When ordering the locking bar at Ojmar, specify the position and the diameter (6 mm) of the locking bolts!

Nova Pro

Crystal

The glass side panel of Nova Pro Crystal also features the internationally unique straight inner sides of Nova Deluxe drawer sides. Not a millimeter of space is wasted; the Grass "MAXfactor" for maximum space utilization is fully used.



Nova Crystal for metallic

- Deluxe drawer side in RAL 9006



Length	Ord. No.
300 mm	68855-99 ^① / -04
350 mm	70981-99 ^① / -04
400 mm	68858-99 ^② / -04
450 mm	68861-99 ^② / -04
500 mm	68864-99 ^② / -04
550 mm	70984-99 ^③ / -04
600 mm	68867-99 ^③ / -04
650 mm	68870-99 ^③ / -04

PU -99^① = 100, -99^② = 75, -99^③ = 50,
-04 = 10 pairs à 1

Wooden back panel clip for glass side element



Designation	Ord. No.
Set left + right	68877-09
Clip, left	68879-09
Clip, right	68880-09

PU 100 pairs / pcs.

Steel back panel clip for glass side element



Designation	Ord. No.	Ord. No.
Set left + right	68878-09	68878-14
Clip, left	68881-09	
Clip, right	68882-09	

PU 100 pairs / pcs. 250 pairs

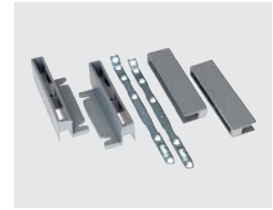
Crystal

Front holder for glass side element



Fastening set consisting of:

- Back panel clip (wood), l + r
- Front holder, l + r
- Front hooks for screw fitting 2x



Designation		Ord. No.
Set (left + right)	68288-09	68288-14
Clip left	68883-09	
Clip right	68884-09	
PU	100 pairs / pcs.	250 pairs

Designation	Ord. No.
Set	71066-04
PU	10 pairs

Interior drawer

- Preassembled **low** front L for back panel height 90



Interior pull-out

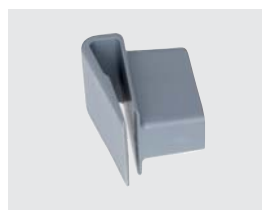
- Preassembled **high** front L for back panel height 186



Length	Side wall thickness	Side wall thickness
	16 mm	19 mm
300	69210-04	70808-04
350		70809-04
400	69211-04	70810-04
450	69212-04	70811-04
500	69213-04	70812-04
550	69214-04	70813-04
600	69215-04	70814-04
700	69216-04	70815-04
800	69217-04	70816-04
900	69218-04	70817-04
1000	69219-04	70818-04
1200	69220-04	70819-04
PU	10 pcs.	10 pcs.

Length	Side wall thickness	Side wall thickness
	16 mm	19 mm
300	69221-04	70820-04
350		70821-04
400	69222-04	70822-04
450	69223-04	70823-04
500	69224-04	70824-04
550	69225-04	70825-04
600	69226-04	70826-04
700	69227-04	70827-04
800	69228-04	70828-04
900	69229-04	70829-04
1000	69230-04	70830-04
1200	69231-04	70831-04
PU	10 pcs.	10 pcs.

Divider railing clip



Front hook



	Ord. No.
	70935-39
PU	20 pcs.

	Ord. No.
for screw fitting	62651-17
for snap fitting	62582-17
PU	500 pcs.

Nova Pro

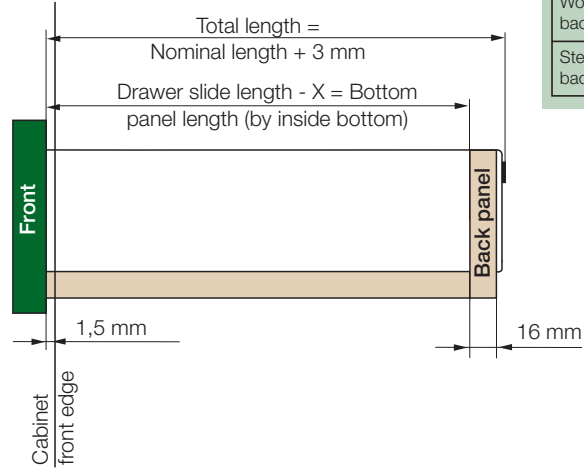
Installation

Installation measurement for Nova Pro Deluxe and Classic

Technical information

Installation measurement $58^{+0.5}_0$
 Tolerance adjustment ± 1 mm
 Bottom panel thickness 16 mm
 Cabinet member mounting:
 Euro screw dia. 6 x 13 mm
 Drill depth – 13 mm

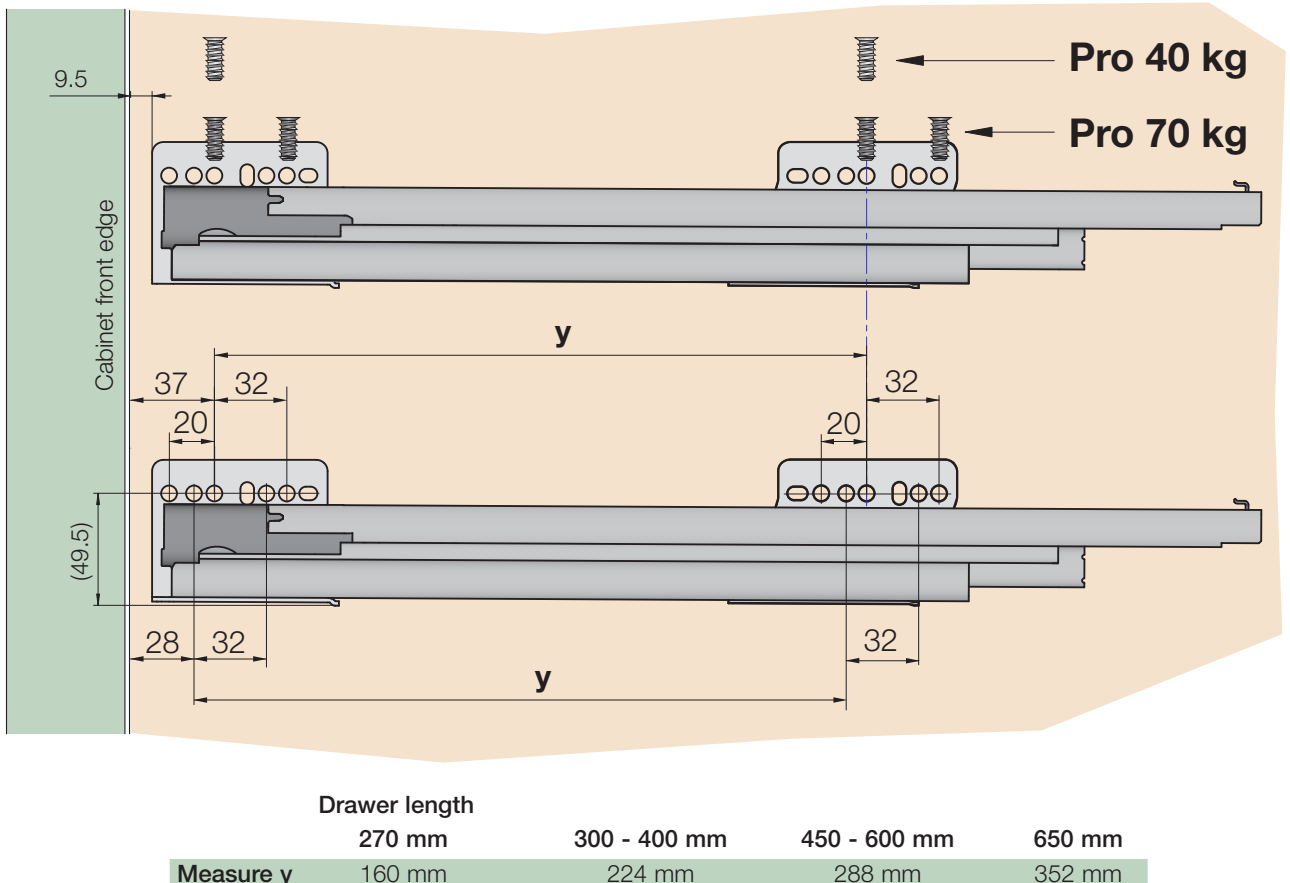
Assembly:



Measurement X

Wooden - back panel X = 19 mm
Steel - back panel X = 13 mm

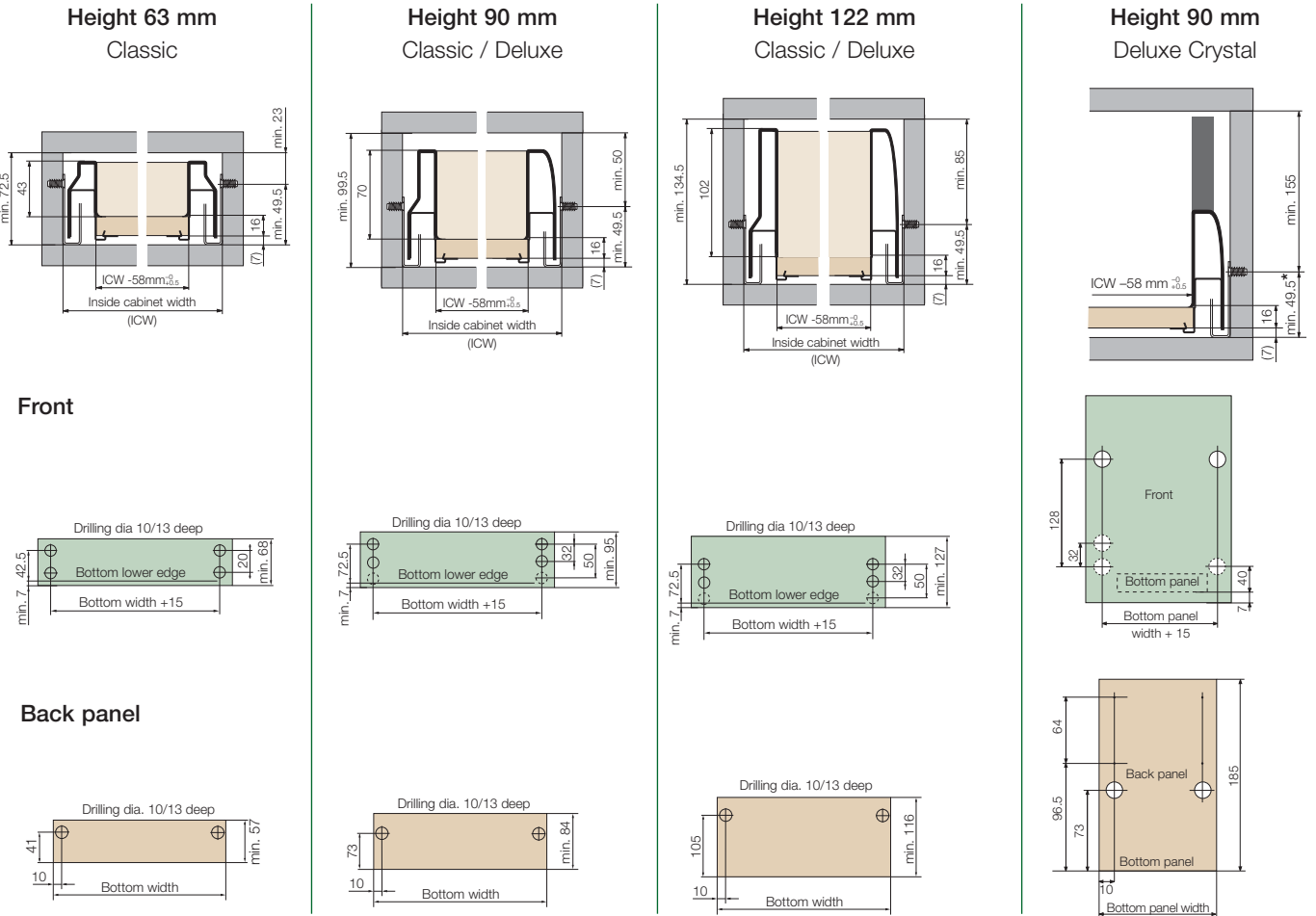
Screw position for - Nova Pro 40 kg and Nova Pro 70 kg



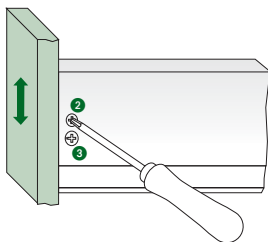
When using chipboard quality - with regard to the screw pull-out force to DIN EN 320 (>1000 N) - we recommend fastening with a standard Euro screw dia. 6 x 13 mm as shown in the above diagram. Fastening methods which differ from the specification are to be tested by the furniture manufacturer.

Installation measurement for Nova Pro Deluxe, Classic and Crystal

Installation dimension

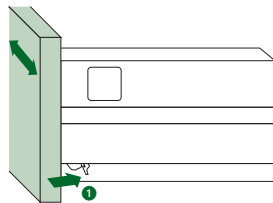


Height adjustment with eccentric screw



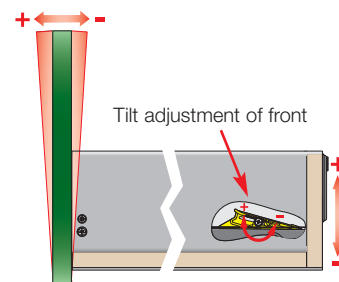
Height adjustment: Loosen screw ② slightly and position front at the required height by means of eccentric screw ③. Adjustment ± 2 mm. Tighten screw ②.

Side adjustment



Side adjustment: Push clamping lever on both sides ① to the back slightly, slightly raise front and slide over ribs, adjustment ± 1.5 mm. Release clamping lever.

Tilt adjustment of front



New for decor height 122
Readily accessible tilt adjustment facility on the inside of the decor. The tilt adjustment is achieved by angling the drawer (± 2 mm).

Accessories



page 38-41

Installation jigs



page 52-54

Grass Partner



page 59

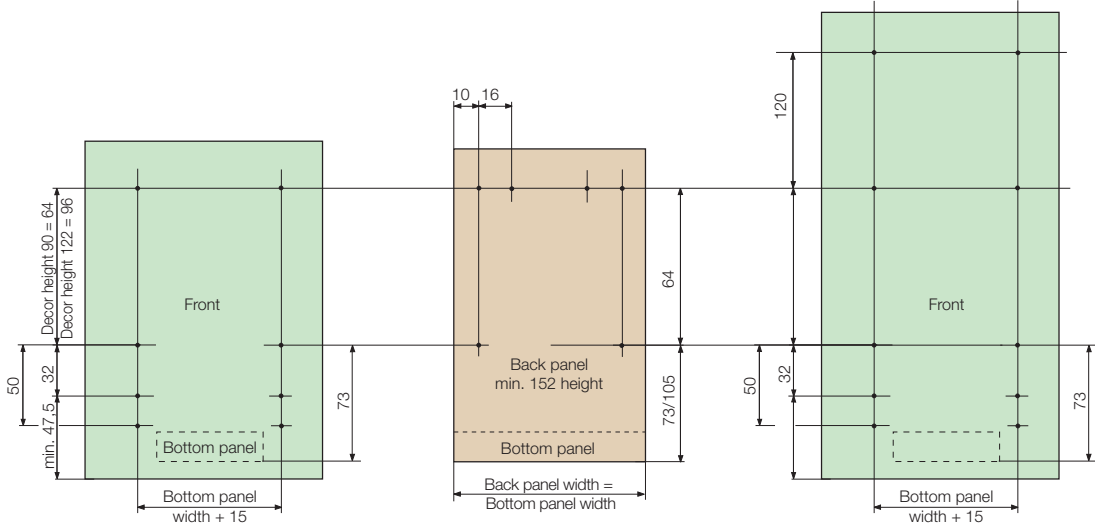
* If Nova Pro Crystal is used for internal fronts (front FL) = min. 52.5 mm see page 51.

Nova Pro

Installation round railing

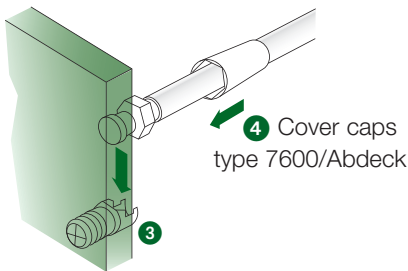
Screw-on mounting and dowel mounting

Round railing with front support



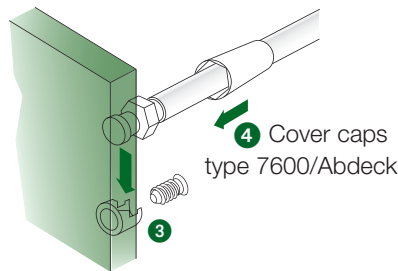
Railing fastening press-in

- 3 Front railing clip, type 7600 press-in version for bore dia. 10/12 deep



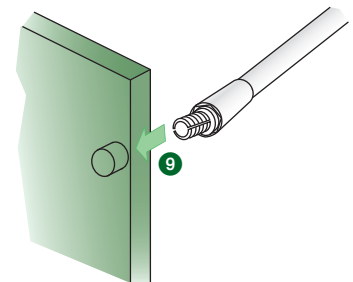
Railing fastening screw-on

- 3 Front railing clip, type 7600/Rel-ET, screw-on version with Spax- or special Euro screws



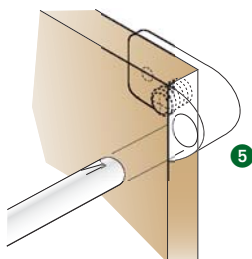
Railing fastening RTA - roundrailing

- 9 Front panel hole dia. 10/12 deep, for installation push in the spreading dowel into the Front panel hole, ...

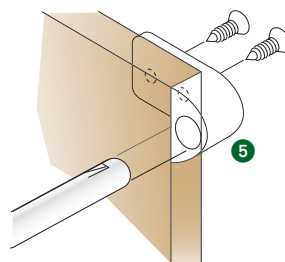


Railingclip on the back panel

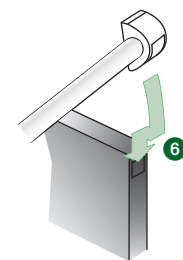
- 5 Back railing clip, type 7107, press-in version for bore dia. 10/12 deep



- 5 Back railing clip, type 7107, screw-on, using Spax dia. 3.5 x 15 mm

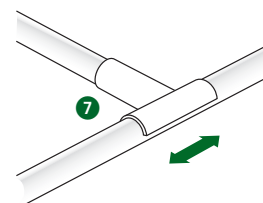


- 6 ... press down the railing and snap rear clip into the slot type 7107 HR/RTA at the steel back panel.



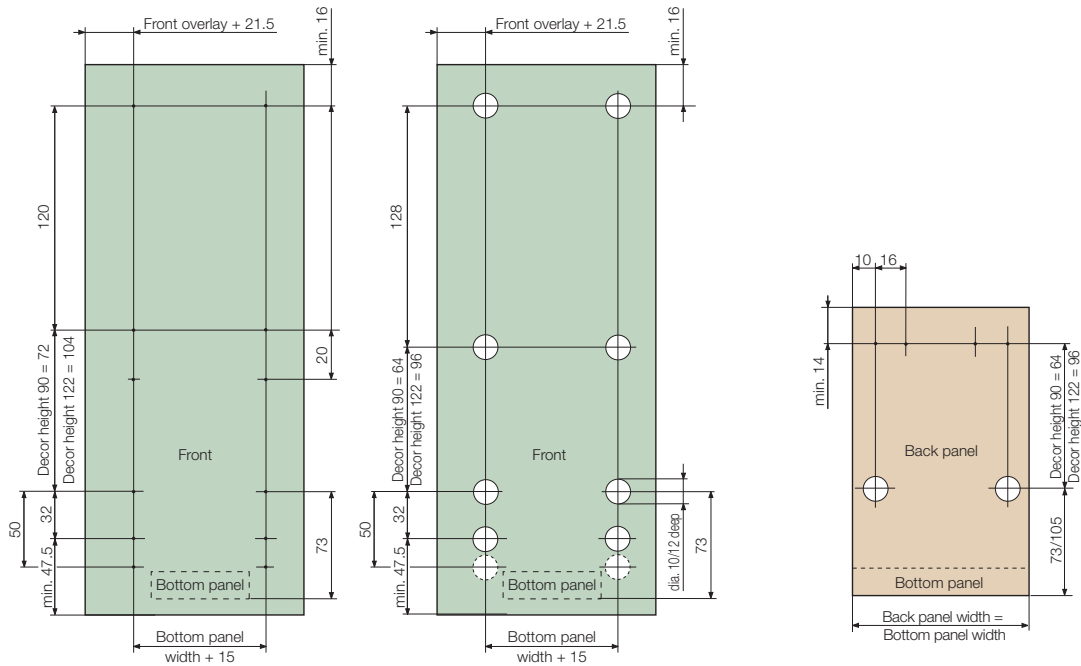
Railing dividers

- 7 Divider railing clip for divider railing, type 7102



Installation front support

Screw-on mounting and dowel mounting



Front support railing fastening

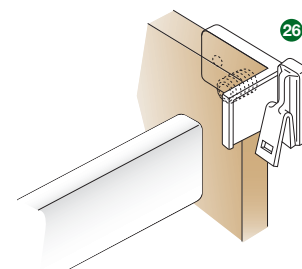
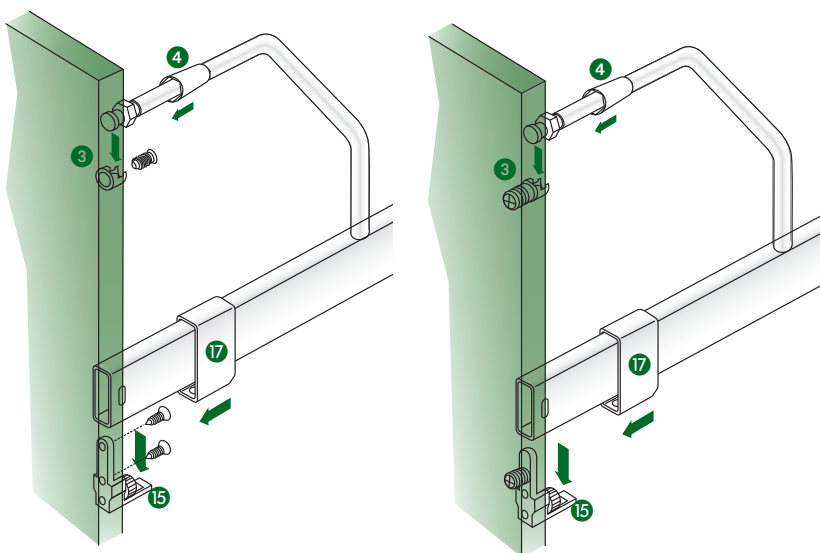
- 3 Front railing clip, type 7600/Rel-ET, screw-on with Spax- or special Euro screws
- 4 Cover sleeve 7600/Adeck-VER
- 15 Angle correction clip, type 6151/VHF 4.2, screw-on using Spax dia. 3.5 x 15 mm
- 17 Cover cap

Front support railing fastening

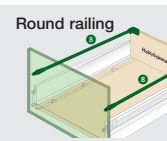
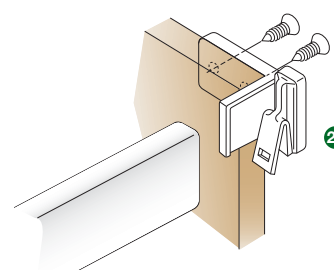
- 3 Front railing clip, type 7600 press-in version for bore dia. 10/12 deep
- 4 Cover sleeve 7600/Adeck-VER
- 15 Angle correction clip, type 6151/VHF 10, press-in version for bore dia. 10/12 deep
- 17 Cover cap

Railing fastening on back panel

- 26 Angle correction clip, type 7601/HR 10, press-in version for bore dia. 10/12 deep



- 26 Angle correction clip, type 7601/HR 4.2, screw-on using Spax dia. 3.5 x 15 mm



page 12-13



page 38-41

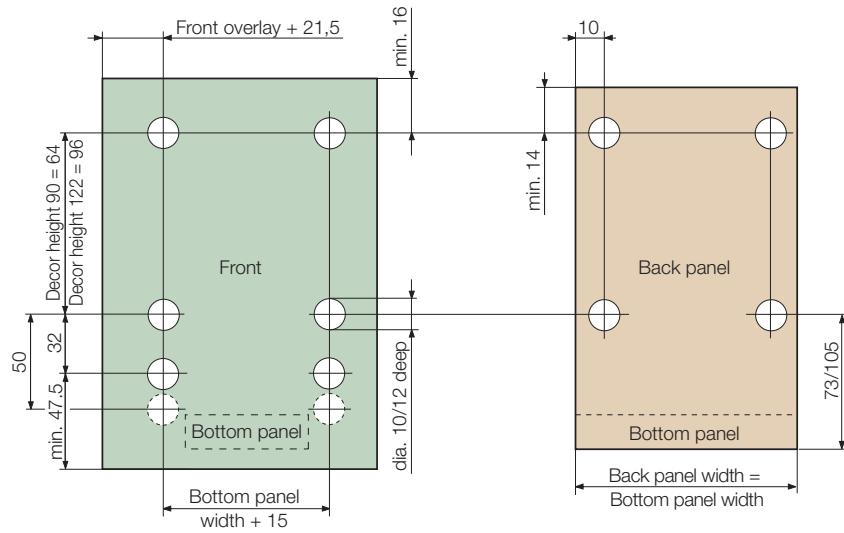


page 59

Nova Pro

Installation rectangle railing

Dowel mounting



Screw-on mounting

Chart for measurement Z (min. measurement)

System	13 6150 HF 4,2	15 6151VHF 4,2
Height 90 mm	72	72
Height 122 mm	104	104

Chart for measurement Y (min. measurement)

	26 7601 VHR 4,2	18 6150 HRI 4,2	14 6150 HR 4,2
	64	69	64
	96	101	96

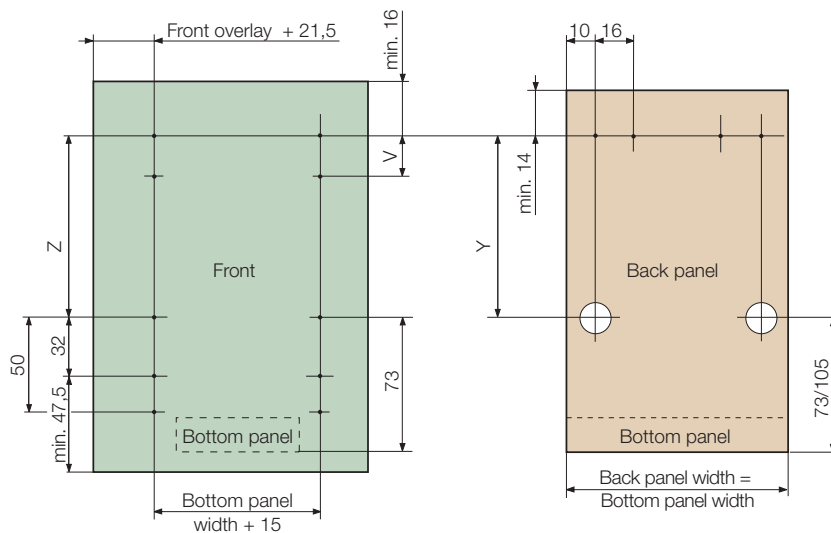


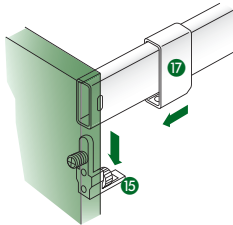
Chart for measurement V

Railing clip	Measurement V
13 6150/HF 4.2	32
15 6151/VHF 4.2	20
18 6150/HRI 4.2	16

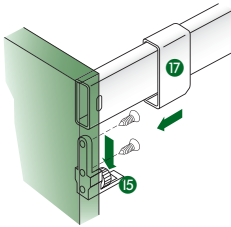
Installation rectangle railing

Angle correction clip on front panel

- 15 Type 6151/VHF 10, press-in version for bore dia. 10/12 deep
- 17 Cover cap type 6151 AK

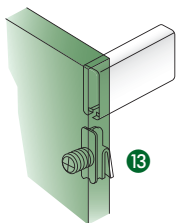


- 15 Type 6151/VHF 4.2, screw-on using Spax dia. 3.5 x 15 mm
- 17 Cover cap type 6151 AK

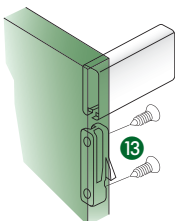


Railing fastening on front panel

- 13 Front railing clip, type 6150/HF 10, press-in version for bore dia. 10/12 deep for steel railings

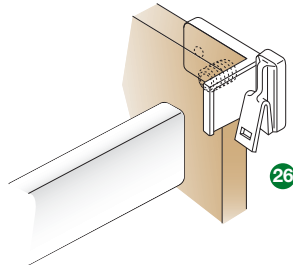


- 13 Front railing clip, type 6150/HF 4.2, screw-on using Spax dia. 3.5 x 20 mm for steel railings

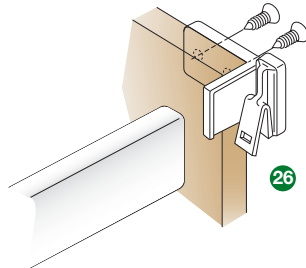


Railing fastening on back panel

- 26 Type 7601/VHR 10, press-in version for bore dia. 10/12 deep

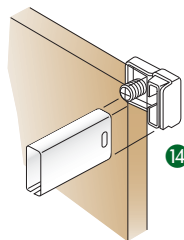


- 26 Type 7601/VHR 4.2, screw-on using Spax dia. 3.5 x 15 mm

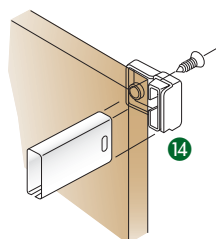


Railing fastening on back panel

- 14 Back railing clip, type 6150/HR10 press-in version for bore dia. 10/12 deep for steel railings

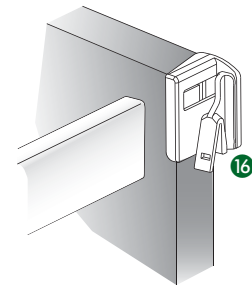


- 14 Back panel clip, type 6150/HR 4.2, screw-on using Spax dia. 3.5 x 15 mm for steel railings



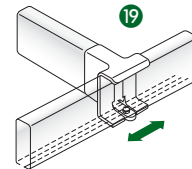
Railingclip for the RTA - steel back panel

- 16 RTA - back railing clip type 7601 VHR/RTA



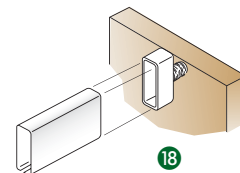
Railing dividers

- 19 Divider railing clip for divider railing, type 6180/HU

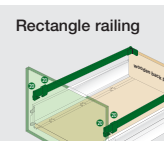
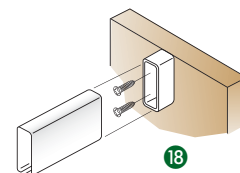


Center railing fastening

- 18 Railing clip, type 6150/HRI 10, press-in version for bore dia. 10/12 deep



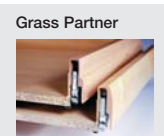
- 18 Railing clip, type 6150/HRI 4.2, screw-on using Spax dia. 3.5 x 15 mm



Rectangle railing
page 14-15



Accessories
page 38-41

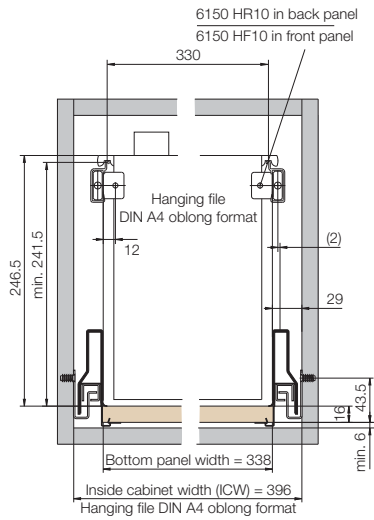


Grass Partner
page 59

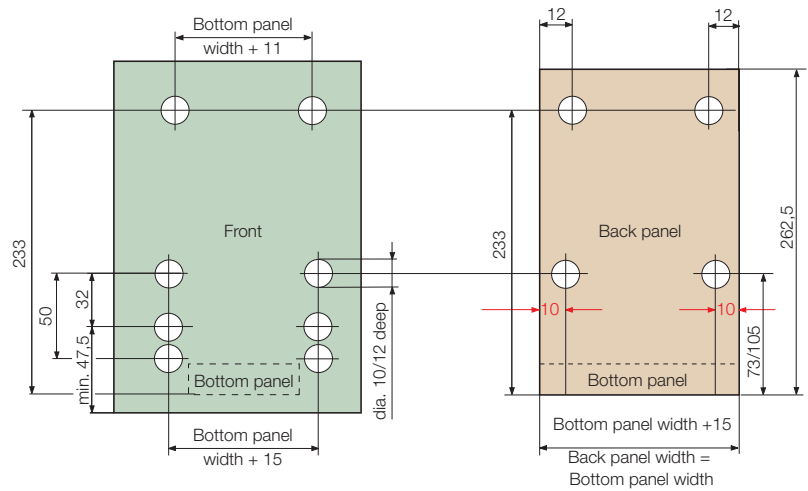
Nova Pro

Installation spacer

Installation measurement for extruded railing Type 6110/B-Rel for Nova



Front and back panel installation measurement



Use the following railing clips only:

Front railing clip 6150/HF 10 **13**, back railing clip 6150/HR 10 **14**

Interior pull-out drawer with Grass front

For mounting of the spacer use the 2nd hole.

Mounting of the cabinet member on the spacer use:

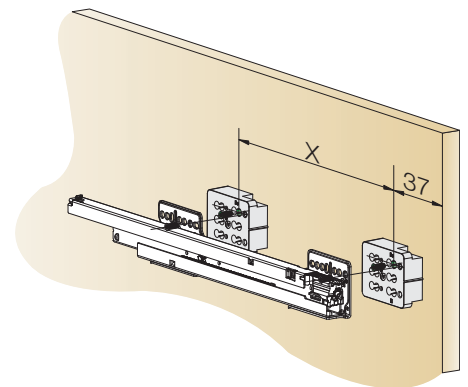
In front:

Cabinet member hole 1
Spacer hole 1

Back:

Cabinet member hole 2
Spacer hole 1

Euro screws: dia. 6 x 13 mm



Interior pull-out drawer with wooden front (front thickness 20 mm)

Note:

For mounting of the spacer use the 3rd hole.

Mounting of the cabinet member on the spacer use:

In front:

Cabinet member hole 1
Spacer hole 1

Back:

Cabinet member hole 2
Spacer hole 1

Euro screws: dia. 6 x 13 mm

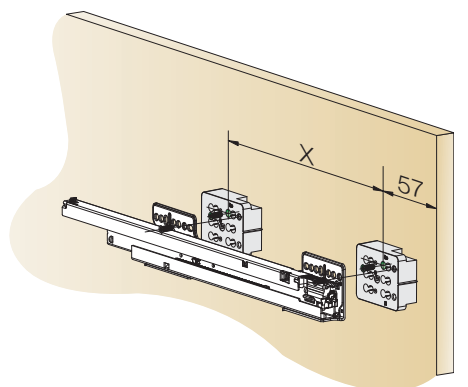


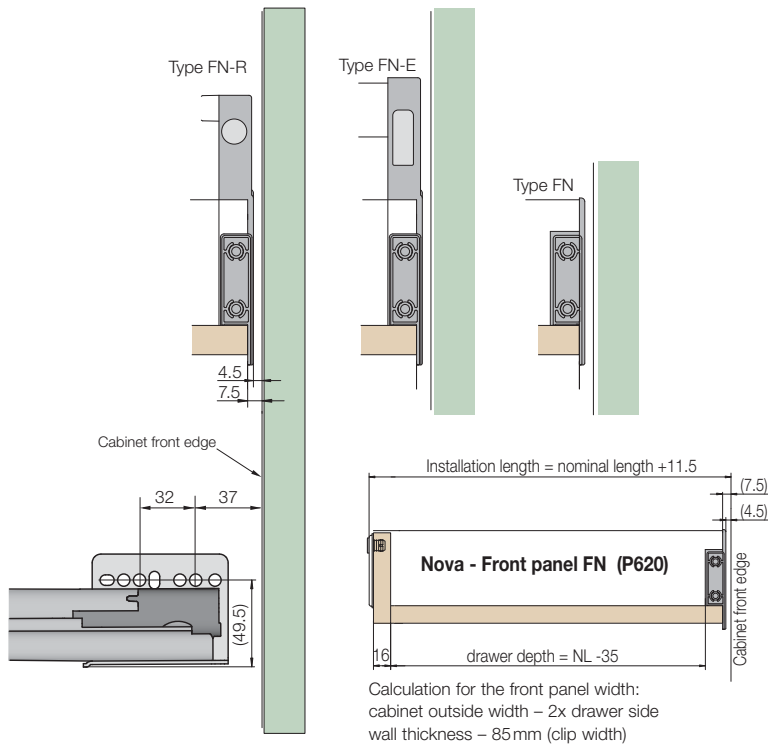
Table for measurement X

drawer length	measurement X
270 mm	160 mm
300 - 400 mm	224 mm
450 - 650 mm	288 mm

Installation extruded railing

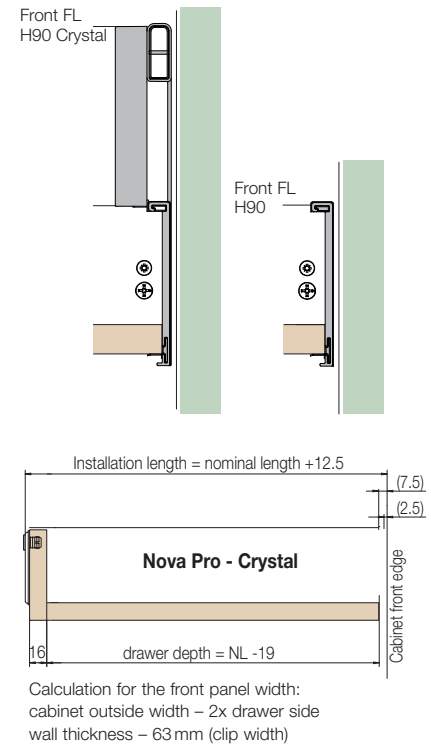
Nova P620 front for interior pull-out drawers

- Options:
Front FN
Front FN-R (round railing)
Front FN-E (rectangular railing)

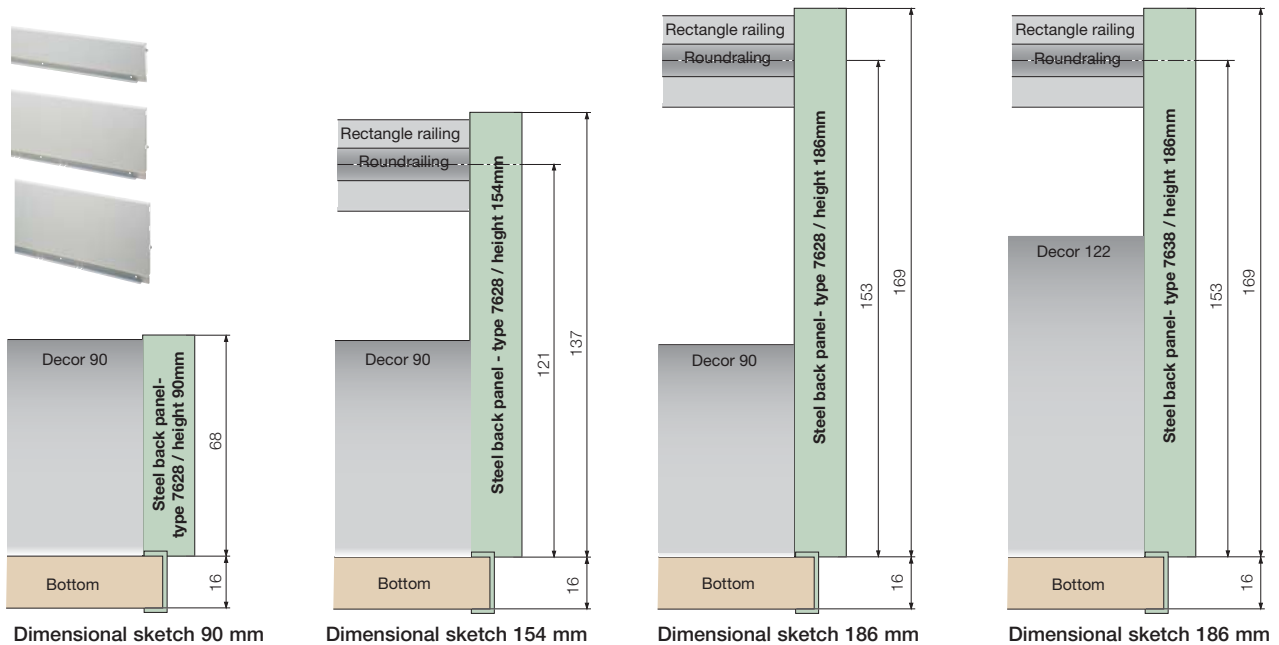


Nova Pro Crystal

interior pull-out drawers



Steel back panel



Accessories



page 38-41

Grass Partner



page 59

Nova Pro

Installation jigs

Grass cabinet member jig for Nova Pro

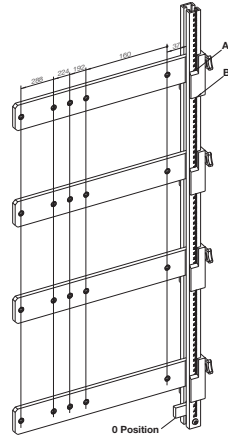
- For all Nova cabinet members (all lengths)
- For use with 5 mm dia. drill bits for 6 mm Euro screws (see photo below)
- When used in mounted cabinet, min. cabinet depth 350 mm

Drill bit with stop ring dia. 5 mm for Euroscrew



Application

There are two possibilities for positioning the stop:



- **Position A**
Align with centre of cabinet member bore holes
- **Position B**
Align with bottom edge of Nova decor (50 mm below fastening hole)



Type	Ord. No.
Nova cabinet member jig	94730
consisting of:	
1 Guiding bar + 4 fixing guides	
Drill bit with stop ring	92594

Procedure:

- 1 Place jig on cabinet (**0 position**)
- 2 Set drilling elements (**position A or B**)
- 3 Drill

Drill head front-bottom panel connector

For drilling the bottom panels of extra-wide drawers when using the Grass bottom panel connector



Bottom panel connector



Drill head set comprising:

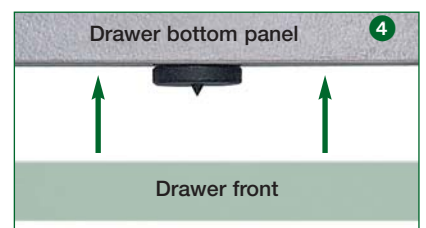
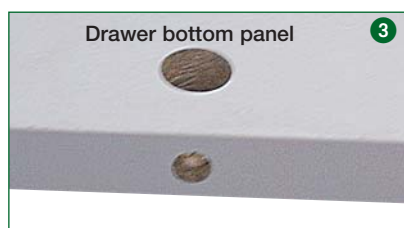
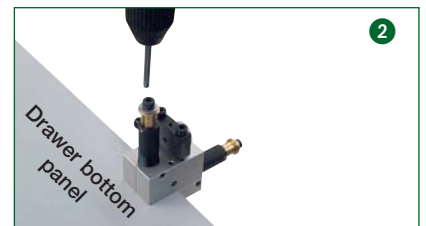
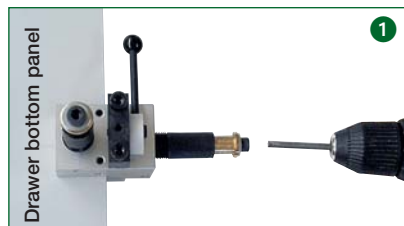
- 1 x Drill head
- 1 x Punch
- 1 x 15 mm drill bit
- 1 x 8 mm drill bit
- 1 x hex. screwdriver bit
- 1 x 3 mm allen key
- 1 x 4 mm allen key

Type	Ord. No.
Drill head set for front-bottom panel connector	94770
Bottom panel connector	26744-38

How to use the drilling jig

(see figures 1 to 4 at the right)

Installation see page 40



Installation jigs

Markers for bore holes on Nova Pro front panels

Application

The Grass dowel marker is used to mark dowel bore holes precisely on the front panel, which is used to fasten the Grass Nova drawer slides.



Dowel marker type

- P910 for height 63 mm
- P920 for height 90/122 mm

Type	Ord. No.
Marker	
Nova height 63	94036
Nova height 90 and 122	92050

Hand insertion die for Nova front hooks, height 90 mm and 122 mm

Application

Attach front hook type P920 / P930, position die and strike.



Type	Ord. No.
Insertion die for front hooks	
Nova P920 / P930	91555

Hand insertion die for Nova front hooks, height 63 mm

Application

Push front hook type P910 onto jig, position over predrilled holes and strike.



Type	Ord. No.
Insertion die for front hooks	
Nova P910	94035

Hand insertion die for front-bottom panel connector

Application

Place front-bottom panel connector in insertion die, position and knock into place.



Installation note

Drilling positions for front - bottom panel fastening

Type	Ord. No.
Insertion die for front-bottom panel connector	94030

Hand insertion die round railing front clips

Application

For the front clip of round railing system type 7600/REL-ET



Type	Ord. No.
Insertion die for round railing front clip	93526

Nova Pro

Installation jigs

Hand insertion die for front railing bracket with tilt adjustment

Application

For the front railing clip type 6151/VHF 4.2



Type	Ord. No.
Insertion die for front railing clip 6151	92595

Hand insertion die for front railing clip

Application

For the front railing clip type 6150/HF 10



Type	Ord. No.
Insertion die for front railing clip 6150	37086

3.5 mm dia. pilot drill

Application

The Grass pilot drill is used to predrill the bore holes for the 3.5 mm diameter Spax screws, so that all tolerance deviations can be eliminated.



Type	Ord. No.
Pilot drill	35692
Replacement drill bit	90561

5 mm dia. drill bit with stop ring for Euro screw bores

Application

To predrill holes when using Euro screws



Type	Ord. No.
Drill bit for Euro screws	92594

Grass screwdriver

Application

Grass screwdriver is used for hinges and drawer slides (Pozidrive #2)



Type	Ord. No.
Grass screwdriver	10256-00

ZMV-pro



General information

The machine has been especially designed for the semi-automatic assembly of drawers and pull-outs. This is the device for the complete Grass Nova Pro.

Basic outfit

- There are no sizing errors because the back panel sets the drawer width.
- Easy and simple operation, durable design and construction, high performance
- Consistently high quality results

zmv-pro

Machine dimensions

Grass ZMV-pro
 Type 1200 mm ca. 1460 x 920 mm
 Type 1500 mm ca. 1760 x 920 mm

With Grass ZMV-pro you can handle drawer widths of

100 -1200 mm	Type 1200
100 -1500 mm	Type 1500

- Easy and efficient operation
- Sturdy frame structure
- Pneumatic control
- CE tested

Power supply

Pneumatic: 6 bar pressure dry
 subject to technical modification, variations in colour are possible.

Brochure ZMV-pro 71111-00

or under www.grass.at

ZP-3N



General information

For the assembly of drawers and pull-outs in widths of up to 140 cm. Special widths upon request.

Basic outfit

- Frame construction
- Pneumatic drive
- 3 stops for back panel height
- Quick-change frame adjustable to all Nova Pro lengths
- For all Nova slide systems

zp3-n

Machine dimensions

length 2.07 m; width 1.00 m;
 height 1.95 m

Space requirement

length 2.20 m; width 2.00 m;
 height 2.20 m

- Easy and efficient operation
- Sturdy frame structure
- Semi-automatic width adjustment
- Tool set and operation instructions
- Any desired drawer width possible
- CE tested

Power supply

Pneumatic: 6 bar pressure dry
 Subject to technical modification, variations in colour are possible.

Brochure ZP-3N 71111-00

or under www.grass.at

Nova Pro

Installation jigs

Ecoflex



∞ ecoflex

- Drilling depth stop in gearbox
- Stop guide adjustment with clamping lever
- Integrated dust extraction
- Hold-down block
- Pneumatic control
- Simple, well-conceived handling = efficient operation
- Compact construction

- Insertion die arm
- Complete pneumatic control
- Complete electronic control
- 5-spindle gearbox with drill chucks (excluding drill bits)
- Tool-free changing of gearbox
- Tool-free quick-change drill chuck

- Bi-conical drill chuck
- Integrated dust extraction
- Blow-out function
- Integrated workplace lighting
- Standard blow-out gun
- Lockable main switch
- Drilling distance adjustment using handwheel with digital display

- Separate scale for cup distance and drill hole line
- Universal insertion die
- 2 lever stops
- Automatic start and stop of drilling motor
- Drilling depth detection on the workpiece
- Tool set

Machine dimensions

Width: 0.8 m
Height: 0.76 m
Length: 0.84 m
Weight: 71.5 kg

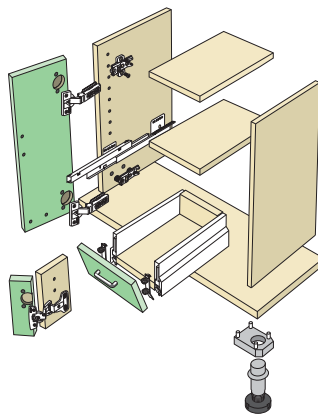
Connection requirements

Electrical: 3 x 380 V/50 Hz / 1.5 kW*
Pneumatic: 6 bar, dry
Dust extraction system: Ø 80 mm

* other voltages on request

Ecoflex

- Hinges, baseplates with dowels
- Kd-fittings, construction supports
- Line boring
- Exposed hinge



Brochure Ecoflex 71111-00

or under www.grass.at

Multiflex



multiflex

- 14-spindle vertical gearbox, 90° swivel
- Drilling depth stop with scale
- Service-friendly
- Stop guide adjustment with handwheel
- 3-spindle horizontal gearbox
- Simple, well-conceived handling = efficient operation
- Compact construction, sturdy machine base

- Insertion die clamping arm
- Complete pneumatic control
- Complete electronic control
- 14-spindle gearbox with drill chuck (excl. drill bits)
- 2 connections for dust extraction
- Tool set
- Operating manual

Connection requirements

Electrical:
3 x 400 V/50 Hz / 1,5 kW*

Pneumatic:
6 bar, dry

Dust extraction system:
2 x 100 mm dia.

* other voltages on request

Machine dimensions

without base:

Width: 1.0 m , Height: 0.91 m,
Depth: 1.16 m

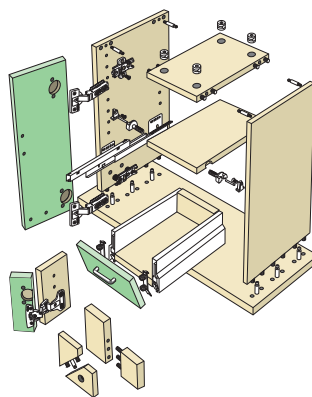
with base:

Width: 1.0 m , Height: 1.65 m,
Depth: 1.26 m

Weight: 160 kg without
base 220 kg with base

Multiflex

- Hinges, baseplates with dowels
- Kd-fittings, construction supports
- Line boring, cabinet members
- Dowel holes
- Drawers, frame connections, 90° mitre
- Exposed hinge



Brochure Multiflex 71111-00

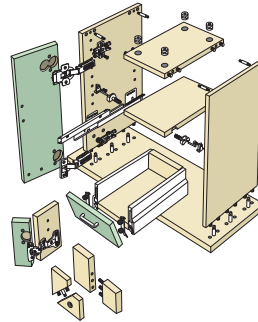
or under www.grass.at

Nova Pro

Installation jigs

Combipress 23/19

- Hinges, baseplates with dowels
- Kd-fittings, construction supports
- Line boring, cabinet members
- Dowel holes
- Drawers, frame connections, 90° mitre
- Exposed hinge



 **combipress**

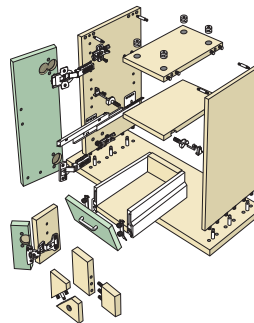


Brochure Combipress 71111-00

or under www.grass.at

Flexipress V/H

- Hinges, baseplates with dowels
- Kd-fittings, construction supports
- Line boring, cabinet members
- Dowel holes
- Drawers, frame connections, 90° mitre
- Exposed hinge



 **flexipress**



Brochure Flexipress V/H 71111-00

or under www.grass.at

Plan & More

- 3D visualisations
- Parts lists, drilling diagrams, order lists, etc. at a click of the mouse
- Standard cabinet, corner cabinet, L cabinet
- Plinth, back panel and top variants
- Interior pull-outs behind doors
- Plan the compartments for the Grass Vario System
- Save in Excel, DXF, BMP
- Include colours or wood textures in your designs
- Nova Pro, Nova Side Cover, Nova Spirit, ...



Plan & more 62636-00

www.plan-more.com - News, Updates, Demoverion, ...

Partner

A valuable basis: the Nova Pro runner system.

The best thing about the Grass Nova Pro System is that it enables you to mount all of your solutions on to a single body runner, the Grass Nova Pro. This not only makes the logistical aspects of your work that much easier – above all, it makes for simpler processing – with the same drill profile for each and every application.



Wire basket made of stainless steel. (Sige)



A valuable combination: wooden drawers using the Grass Nova Pro System with in-built Airmatic cushioning. (Rockenhausen)

Flexibility and a wealth of ideas.

The Nova Pro System enables Grass to let its customers view furniture manufacturing from a completely new and beneficial perspective: Grass now opens up unrivalled scope for them to implement creative designs by mounting furniture components such as waste separation systems, wire baskets or frames made of all kinds of materials on to the Nova Pro runner system.



A specific storage material, a specific solution: both using the same runner system.



Waste separation system (Hailo)



Functional waste separation system mounted on Grass Nova Pro.

Open for ideas and joint projects.

At this very moment, Grass is already working together with a number of tremendous partners. At this very moment, a number of furniture manufacturers are using the unique Nova Pro System. So why not join forces with Grass to create added value? We look forward to hearing from you!

Contact: Holzwerk Rockenhausen GmbH & Co. KG
Kaiserslauterer Str. 11
D-67806 Rockenhausen
www.holzwerk-rockenhausen.de

Sige s.p.a.
Via Baianca 10
I-60020 Polverigi (AN)
www.sige-spa.it

Hailo-Werk
Daimlerstraße 8
35708 Haiger
www.hailo-einbautechnik.de

ELCO Kunststoffe GmbH
Osnabrücker Landstr. 154
D-3335 Gütersloh
www.elcokunststoffe.de

Ninkplast GmbH
Benzstraße 6
D-32079 Bad Salzufflen
www.ninka.com

Vibo S.p.A.
Via delle Tezze - 36070
Trissino (VI) Italy
www.viboitaly.com



Grass GmbH, Furniture Fittings
Grass Platz 1
6973 Höchst
Österreich

Tel. +43 / 5578 / 701-0
Fax +43 / 5578 / 701-59

www.grass.at, info@grass.at