



GRASSHOPPER®
GROUP LIMITED



Unihopper®

— GRASSHOPPER GROUP



PRODUCT MANUAL

UNDERMOUNT RUNNERS, BALL BEARING SLIDES, SUPERSLIM COBOX AND MAGIC BOX DRAWERS,
WARDROBE FITTINGS, HINGES, ADJUSTABLE LEGS, PUSH CATCHES, LED LIGHTING,
BESPOKE ALUMINIUM FRAMED GLASS DOORS, BESPOKE FURNITURE FRONTS AND MUCH MORE

2023 Edition 1

THE GRASSHOPPER GROUP

The Grasshopper Group started as an association in the late 1990s between a Chinese factory producing furniture fittings and a European business with a background in furniture manufacture. From that beginning it has developed into a global business manufacturing high quality Unihopper and GH-Pro components with a network of dedicated distributors covering every continent.

In early 2022 the new, state of the art factory complex and warehouse was completed and the advanced automated assembly lines commissioned.



The new factory replaces several older facilities and consolidates design, engineering, production, product testing and administration departments in one central location, conveniently close to the principal container port of Yantian.



The group's European headquarters and the 5,500 square metre warehouse and logistics centre is based near Krakow in Poland along with factories which produce both decorative and structural sheet glass products and bespoke aluminium framed furniture fronts with glass, ceramic or concrete infills.

The factories in Poland also engineer bespoke acrylic faced mdf, wood and board products using the latest CNC machinery.

Over 50,000 product lines are held in the European warehouse.

Grasshopper Group Limited in the UK distributes Unihopper and GH-Pro components, Grasshopper furniture fronts and a carefully curated range of high quality products from other brands.

We supply the whole of the UK with stock from our warehouse in Newbury offering next day delivery on all stock items.

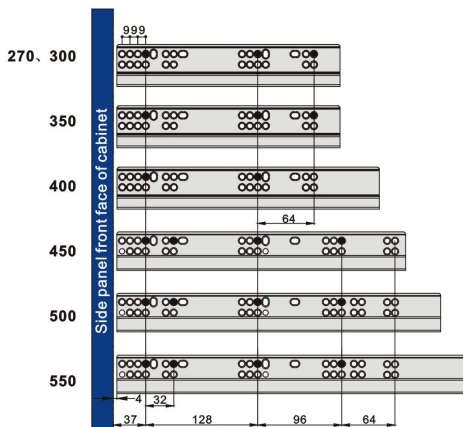
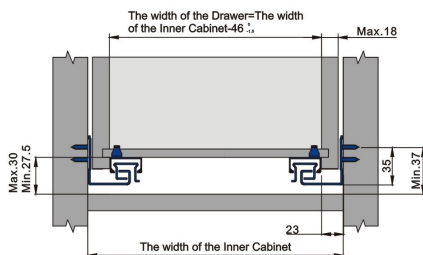
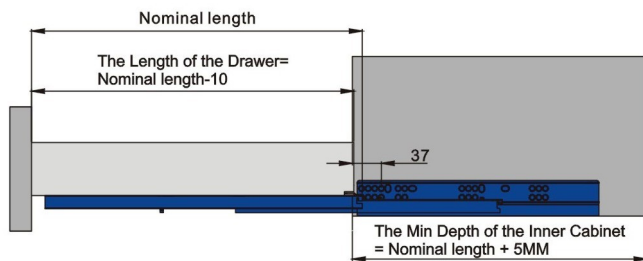
Unihopper full extension undermount runners are available with soft close or push to open mechanisms. They are designed to take 18mm drawer sides but can accommodate 19mm veneered board too.

Unihopper single extension undermount runners are available with soft close mechanisms with the same capacity as the full extension runners. They open to approximately 75% of their nominal length and offer a more economical solution with no compromise on quality.

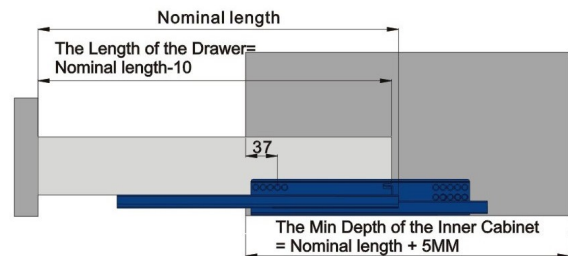
All the undermount runners are 35kg rated and come complete with easy-to-adjust 3D clips.

For complete peace of mind all Unihopper undermount runners are covered by our no-quibble life-time warranty.

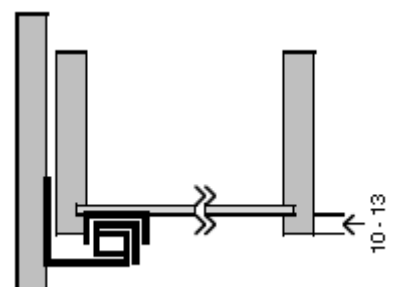
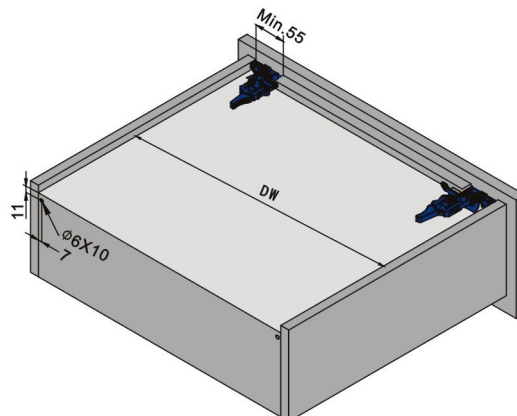
FULL EXTENSION



SINGLE EXTENSION



Nominal Length	Product Code		
	Full Extension		Single extension
	Soft Close	Push to Open	Soft Close
270 mm	CL12E2.270	CL14E2.270	CL22D2.270
300 mm	CL12E2.300	CL14E2.300	CL22D2.300
350 mm	CL12E2.350	CL14E2.350	CL22D2.350
400 mm	CL12E2.400	CL14E2.400	CL22D2.400
450 mm	CL12E2.450	CL14E2.450	CL22D2.450
500 mm	CL12E2.500	CL14E2.500	CL22D2.500
550 mm	CL12E2.550	CL14E2.550	CL22D2.550





BALL BEARING SLIDES

Grasshopper offers a wide range of high quality full extension Ball Bearing Slides (BBS) in a range of nominal lengths from 300mm to 1,000mm and with standard operation, soft close, push to open and even with soft close and push to open functions combined in one slide, **a world first**. All the slides with soft close have superior twin spring mechanisms for smoother action and much greater reliability than single spring types. Weight ratings are 35kg, 45kg and 100+kg depending on the model. They are a very versatile alternative to undermount runners, particularly for under-stair pull-outs, home office furniture and commercial applications.

For complete peace of mind all Grasshopper BBS are covered by our no-quibble lifetime warranty.



Standard Duty H45mm W12.7mm 35kg	
Nominal Length	Product Code
400 mm	02.GH45.400
450 mm	02.GH45.450
500 mm	02.GH45.500
550 mm	02.GH45.550
600 mm	02.GH45.600

Twin Spring SC H45mm W12.7mm 35kg	
Nominal Length	Product Code
300 mm	M32403.300
350 mm	M32403.350
400 mm	M32403.400
450 mm	M32403.450
500 mm	M32403.500
550 mm	M32403.550
700 mm	M32403.700

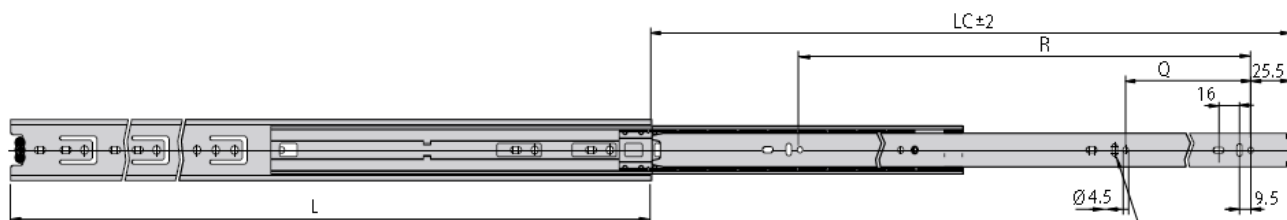
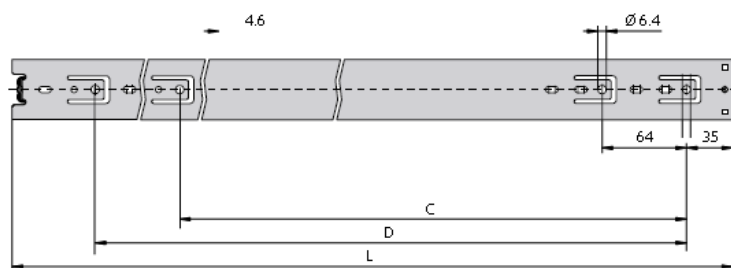
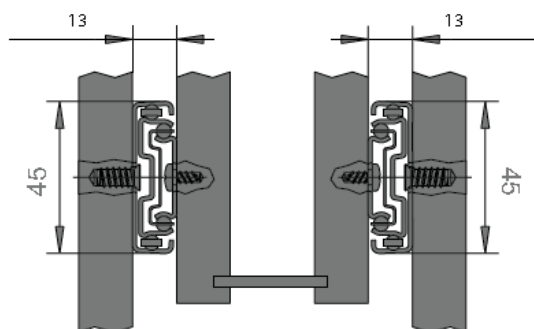
Push to Open H45mm W12.7mm 35kg	
Nominal Length	Product Code
300 mm	DS2201.300
350 mm	DS2201.350
550 mm	DS2201.550

Very Heavy Duty H53mm W19.0mm 100+kg	
Nominal Length	Product Code
700 mm	M32501.700
800 mm	M32501.800
900 mm	M32501.900
1000 mm	M32501.1000

Heavy Duty SC H45mm W12.8mm 45kg	
Nominal Length	Product Code
550 mm	02.GH70.550

Twin Spring PTO & SC H45mm W13.0mm 45kg	
Nominal Length	Product Code
350 mm	M32407.350
400 mm	M32407.400
450 mm	M32407.450
500 mm	M32407.500
550 mm	M32407.550

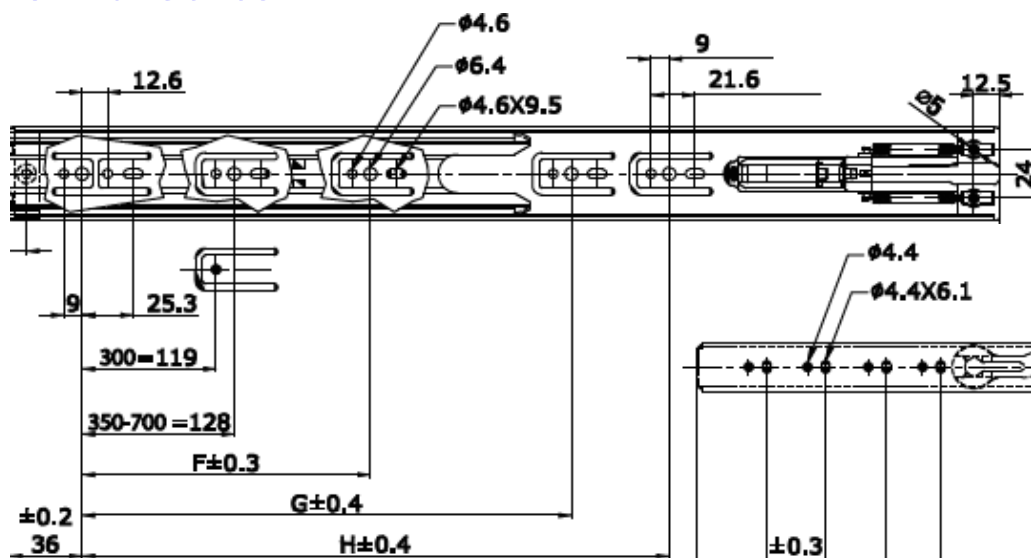
GH45 Series



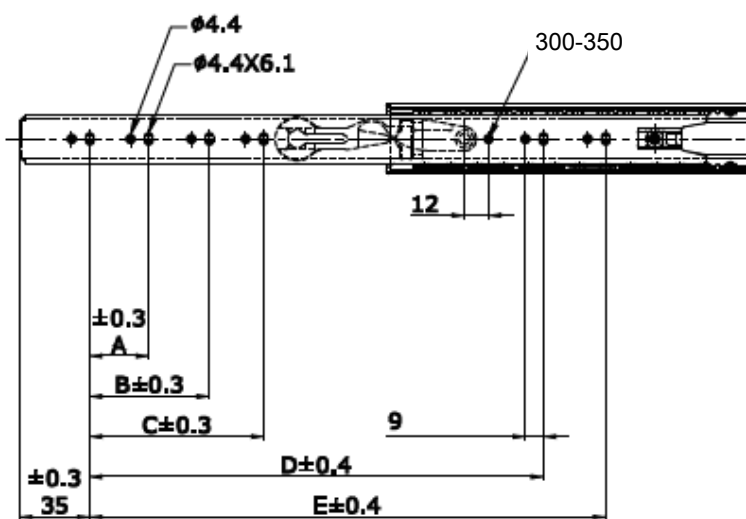
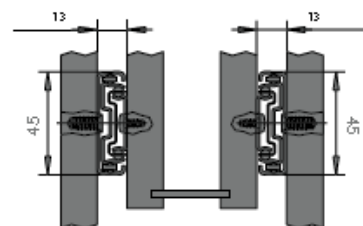
NL	C	D	Q	R	LC
400	224	288	160	320	397
450	256	320	160	352	447
500	320	384	192	416	497

NL	C	D	Q	R	LC
550	352	416	224	448	547
600	416	480	256	512	597
DIMENSIONS IN MM					

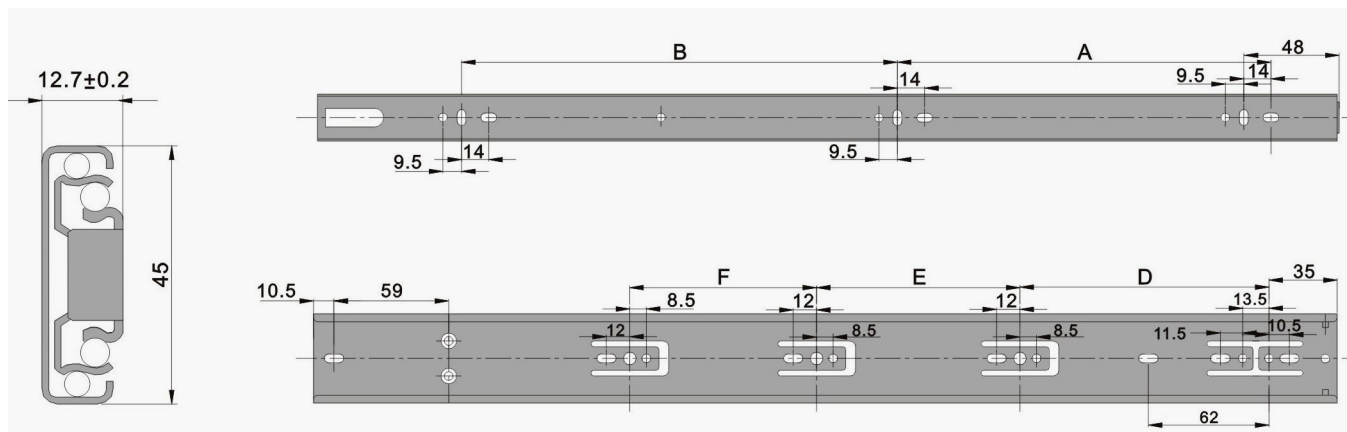
GH70 Series



NL	A	B	C	E	F	G
550	96	160	352	394	224	352
DIMENSIONS IN MM						

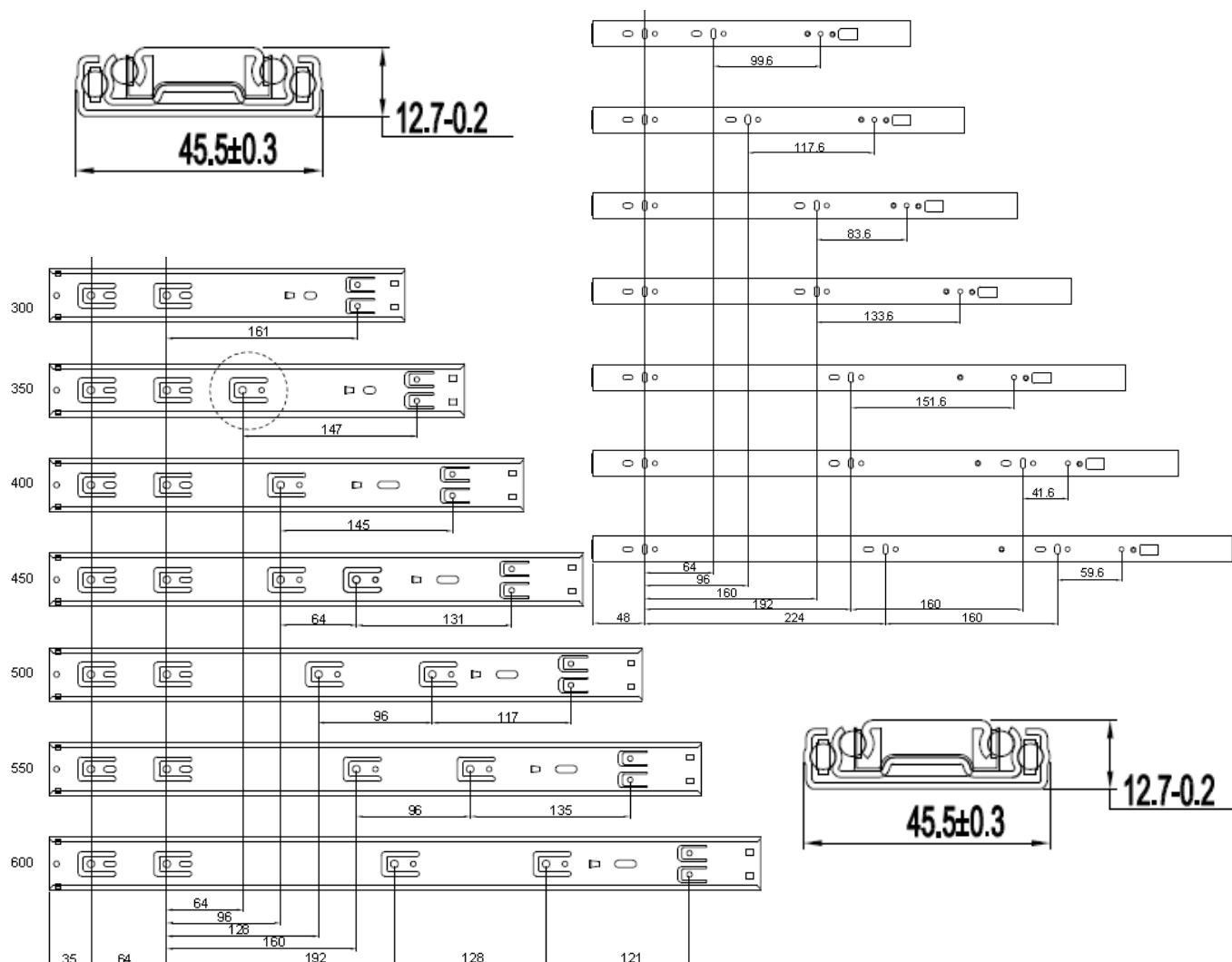


DS2201 Series

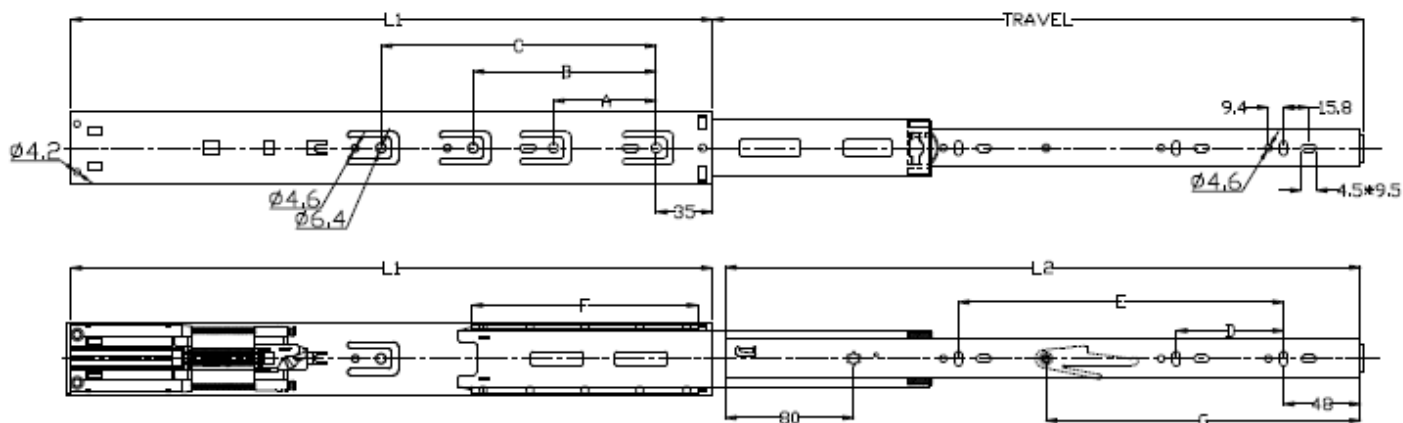


NL	A	B	D	E	F
300	96	82.5	87		
350	128	96	64	64	
550	192	224	128	128	96
DIMENSIONS IN MM					

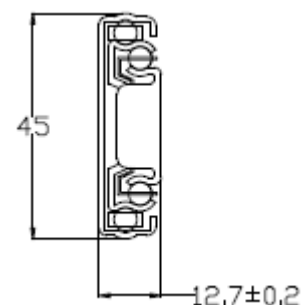
M32403 Series



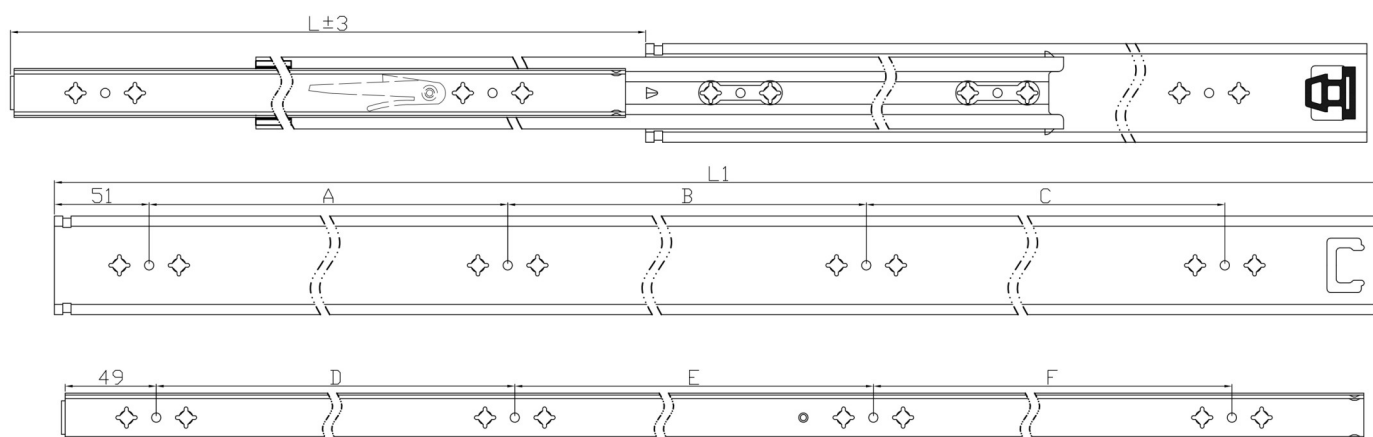
M32407 Series



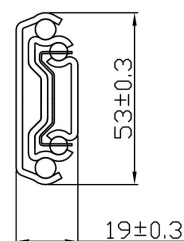
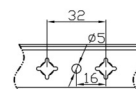
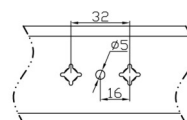
NL	L1	L2	TRAVEL	A	B	C	D	E	F	G
350	350	346	310	64	128		96		114	234
400	400	396	383	64	160		160		141	284
450	450	446	450	64	224		192		162	322.5
500	500	496	500	64	192	256	160		175	334.5
550	550	546	550	64	224	320	192	352	190	349.5
DIMENSIONS IN MM										



M32501 Series



NL	L	L1	A	B	C	D	E	F
700	700	700	192	192	192	192	192	192
800	800	800	224	224	224	224	224	224
900	900	900	256	256	256	256	256	256
1000	1000	1000	288	288	288	288	288	288
DIMENSIONS IN MM								

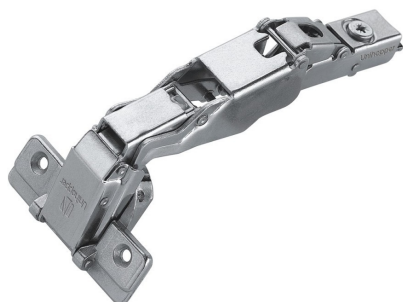


CLIP-ON SAFETY HINGES

Unihopper soft close clip on hinges are made with higher grade and thicker steel than equivalent products and have a more robust soft close system for reliable operation and a long operating life. To improve safety and prevent accidental disengagement if the hinge is knocked, release from the mounting plate requires a tab to be lifted rather than pressed in. Adjustment is quick and easy by cam on the hinge arm with the option of a cam adjusted plate to provide full and precise 3D adjustment. Also optional, cup and arm covers are available to give a sleeker finish to the installation. All hinges except the 165° heavy duty hinge are designed for door thicknesses between 14mm and 22mm. The 165° hinge will accommodate door thicknesses up to 26mm. If required the hinges are compatible with Blum angle stops to limit the opening angle. When fitted, the versions without soft close are identical in appearance to the standard soft close hinge.



105°



165°



45°



90°

Unihopper safety hinges

Clip-on, Soft Close

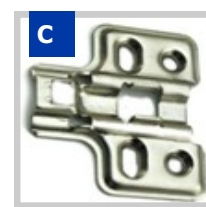
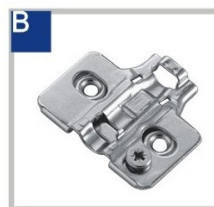
Type	Product Code
105° Full Overlay	HG1112.C0.1
105° Half Overlay	HG1112.C0.8
105° Inset	HG1112.C15.1
165° Full Overlay	HG1412.C0.1
45° Closing	HG1406.1
90° Parallel	HG1407.1

Mounting Plates and Covers

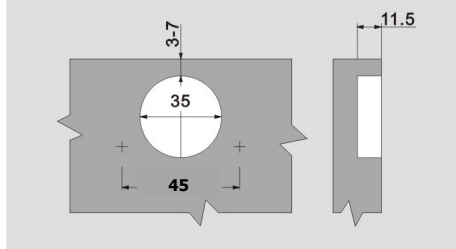
Two hole standard	HG1112.A1
Two hole euroscrew	HG1112.A2
Two hole 3D cam	HG1112.B
Four hole standard	HG1112.C
Cup and arm covers	HG1112.CD

Clip-on, without Soft Close

105° Full Overlay	HG1112.C0.0
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Screw mounting





CLIP-ON SOFT CLOSE HINGES

The three GH-Pro soft close clip on hinge ranges offer good quality cost effective alternatives to the Unihopper safety hinges.

The GH20 95° and 175° full overlay hinges are ideal for projects which require robust hardware where every penny counts. They have screw adjustment on the arm and come complete with a two hole standard base.

GH40 95° full overlay hinge arms have 3D cam adjustment and are complemented by two hole 3D plates which are supplied separately.

GH30 95° half overlay and inset hinges have 3D cam adjustment and come complete with a two hole 3D plate and cup and arm covers.

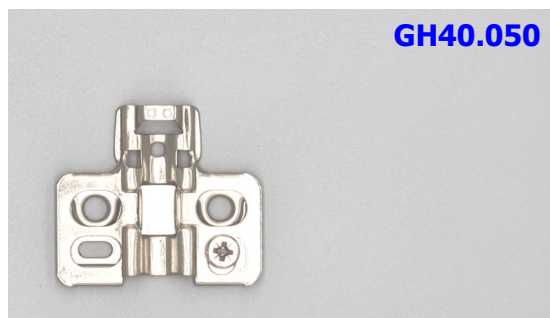
For complete peace of mind all GH-Pro hinges are covered by our no-quibble seven year warranty.



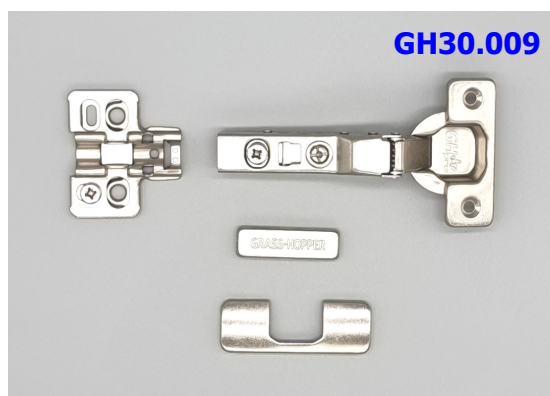
GH20.001



GH40.000



GH40.050



GH30.009

GH-Pro clip-on soft close hinges	
Type	Product Code
95° full overlay hinge, standard plate, euro screws	01.GH20.001
175° full overlay hinge, standard plate	01.GH20.175
95° full overlay hinge arm, 3D cam adjustment	01.GH40.000
Two hole 3D cam adjusted plate for GH40 hinges	01.GH40.050
95° half overlay hinge, 3D arm, 3D plate and covers	01.GH30.009
95° inset hinge, 3D arm, 3D plate and covers	01.GH30.018



GH20.175



GH30.018



Magic Box are premium quality double skin, slim sided drawers with full extension undermount runners. They are available in three heights - 80mm, 120mm and 170mm in Dark Grey or Matt White finish. Standard drawers have soft close runners with push to open as an option. For push to open types, replace "DBE" with "DBRE" in the product code when ordering. The load rating is 35kg.

Magic Box LED drawers are the **original** glass sided drawer with integral LED lighting which switches on automatically when the drawer is opened. Power is either by battery pack or transformer.

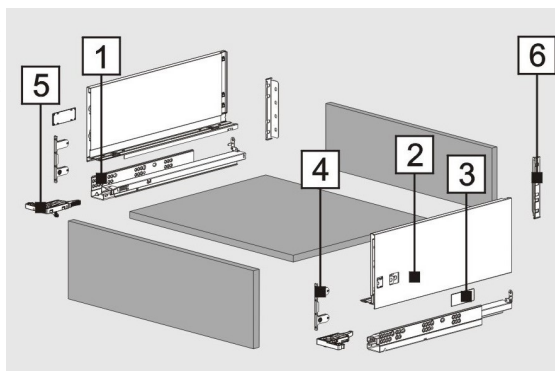
Everything you need is delivered in a single box. Installation and 6-way adjustment is quick and straightforward. Backs and bases are cut to size from any 16mm board with no further processing required.

For complete peace of mind all Magic Box drawers are covered by our no-quibble lifetime warranty.



IN THE BOX

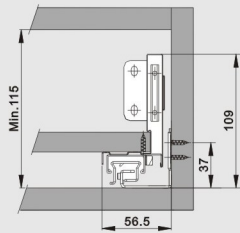
- 1 Undermount runners
- 2 Drawer sides
- 3 Cover panels
- 4 Front brackets
- 5 Adjustable clips
- 6 Back panel brackets



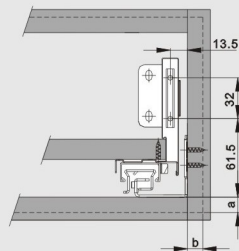
Magic Box		
H80		
Nominal length	Product Code	
	Standard	LED
H80		
270 mm	DBE1.270A.80	DBF1.270A1
300 mm	DBE1.300A.80	DBF1.300A1
350 mm	DBE1.350A.80	DBF1.350A1
400 mm	DBE1.400A.80	DBF1.400A1
450 mm	DBE1.450A.80	DBF1.450A1
500 mm	DBE1.500A.80	DBF1.500A1
550 mm	DBE1.550A.80	DBF1.550A1
H120		
270 mm	DBE1.270B.120	DBF1.270B1
300 mm	DBE1.300B.120	DBF1.300B1
350 mm	DBE1.350B.120	DBF1.350B1
400 mm	DBE1.400B.120	DBF1.400B1
450 mm	DBE1.450B.120	DBF1.450B1
500 mm	DBE1.500B.120	DBF1.500B1
550 mm	DBE1.550B.120	DBF1.550B1
H170		
270 mm	DBE3.270C.170	DBF1.270C1
300 mm	DBE3.300C.170	DBF1.300C1
350 mm	DBE3.350C.170	DBF1.350C1
400 mm	DBE3.400C.170	DBF1.400C1
450 mm	DBE3.450C.170	DBF1.450C1
500 mm	DBE3.500C.170	DBF1.500C1
550 mm	DBE3.550C.170	DBF1.550C1

H=80mm Installation instruction

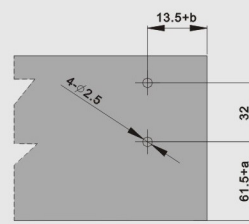
Inside cabinet dimension



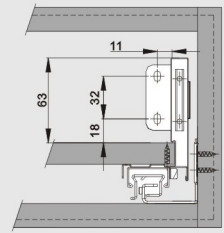
Front panel mounting positions



Front fixing brackets positions

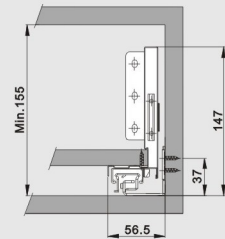


Back panel mounting positions

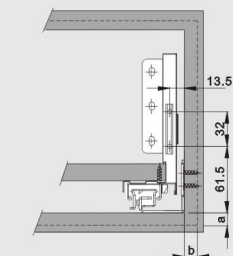


H=120mm Installation instruction

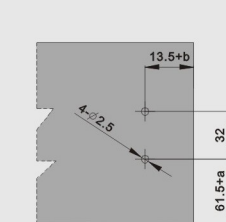
Inside cabinet dimension



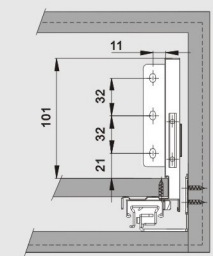
Front panel mounting positions



Front fixing brackets positions

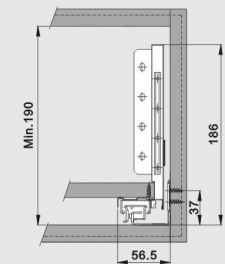


Back panel mounting positions

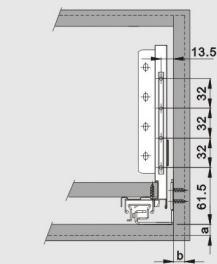


H=170mm Installation instruction

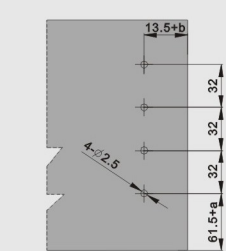
Inside cabinet dimension



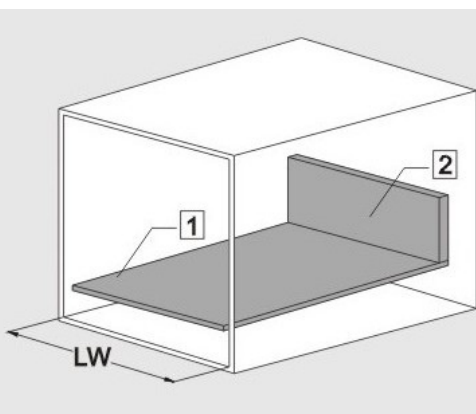
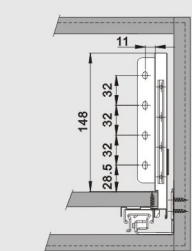
Front panel mounting positions



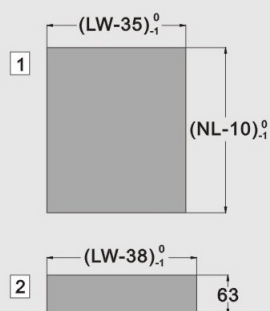
Front fixing brackets positions



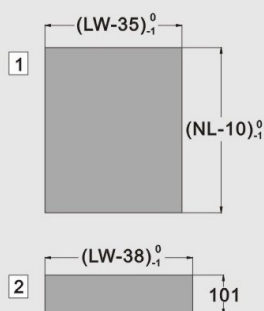
Back panel mounting positions



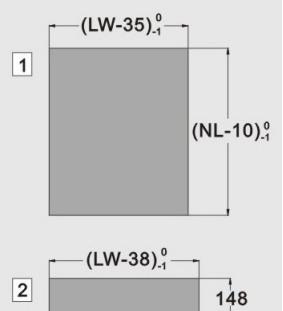
H80mm back and base



H120mm back and base



H120mm back and base



INNER MAGIC BOX



FOR H80 MAGIC BOX	PRODUCT CODE	
DARK GREY	WITHOUT GLASS	WITH GLASS
Plastic Bracket (pair)	DA6101E4.80.DG	
Front Cover (Pair)	DA6102E3.80.DG	
Aluminium Panel (1200mm long)	DA6103E3.120A.DG	DA6103E2.120A.DG



NOTE: TOUGHENED GLASS PANEL NOT INCLUDED

8mm glass panel H67mm W = LW-116mm

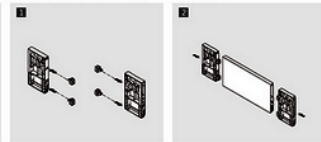
Cutting instruction

Cutting of aluminium front panel



Length = LW-127mm

Installation instruction



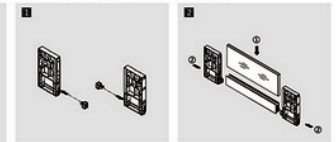
Cutting instruction

Cutting of glass holder

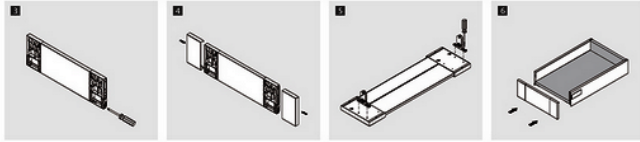


Length = LW-127mm

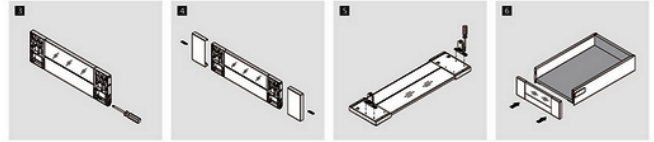
Installation instruction



Installation instruction



Installation instruction





FOR H120 MAGIC BOX	PRODUCT CODE	
DARK GREY	WITHOUT GLASS	WITH GLASS
Plastic Bracket (pair)	DA6101E4.120.DG	
Front Cover (Pair)	DA6102E3.120.DG	
Aluminium Panel (1200mm long)	DA6103E3.120A.DG	DA6103E2.120A.DG



NOTE: TOUGHENED GLASS PANEL NOT INCLUDED

8mm glass panel H105mm W = LW-116mm

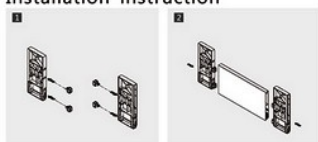
Cutting instruction

Cutting of aluminium front panel



Length = LW-127mm

Installation instruction



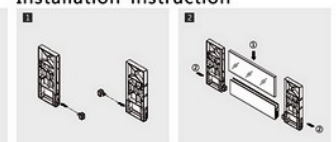
Cutting instruction

Cutting of glass holder

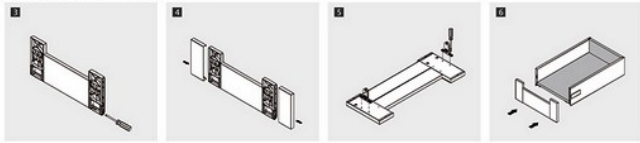


Length = LW-127mm

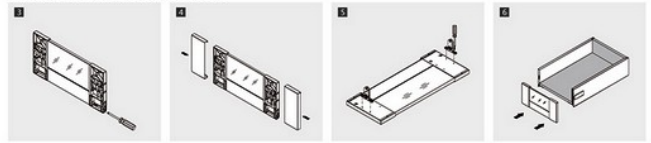
Installation instruction



Installation instruction



Installation instruction





FOR H170 MAGIC BOX	PRODUCT CODE	
DARK GREY	WITHOUT GLASS	WITH GLASS
Plastic Bracket (pair)	DA6101E4.170.DG	
Front Cover (Pair)	DA6102E3.170.DG	
Aluminium Panel (1200mm)	DA6103E3.120A.DG	DA6103E2.120A.DG
Aluminium Rail (1200mm)	DA6104E2.120C.DG	N/A



NOTE: TOUGHENED GLASS PANEL NOT INCLUDED

8mm glass panel H105mm W = LW-116mm

Cutting instruction

Cutting of aluminium front panel



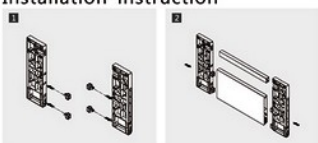
Length = LW-127mm

Cutting of aluminium bar



Length = LW-83mm

Installation instruction



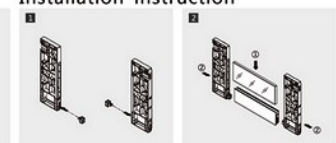
Cutting instruction

Cutting of glass holder

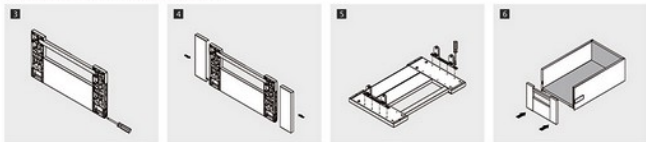


Length = LW-127mm

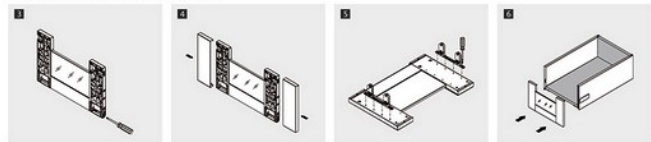
Installation instruction



Installation instruction



Installation instruction



LARDER TOWERS



Magic Box Larder Tower Packs are supplied as complete sets with all components except the drawer base and back panels and glass inserts. To achieve maximum drawer width zero protrusion hinges can be used or alternatively fitting suitable thin packing strips on the hinge side of the cabinet allows standard hinges to be used. The drawers are available with either plain aluminium fronts or aluminium and glass fronts as shown. Where the aluminium and glass option is chosen any 8mm thick clear, tinted, frosted or textured toughened glass can be used.

Up to four H170 drawers and one H80 drawer can be fitted within the overall maximum recommended height of 1,650mm from floor level to the base of the H80 drawer fitted to the top of the stack. For taller cabinets it is recommended that a shelf is fitted at a suitable height above the top drawer. To maximise space the bottom drawer should be fitted so that the runners rest on the base of the cabinet. Other drawers are spaced to accommodate items of different heights and to allow optimal spacing of the hinges.

Magic Box larder towers with aluminium fronts - contents of complete set												
Drawer Depth	450				500				550			
Cabinet Width	300	400	500	600	300	400	500	600	300	400	500	600
DBE1.450A.80.DG or DBRE1.450A.80.DG	1	1	1	1								
DBE3.450C.170.DG or DBRE3.450C.170.DG	4	4	4	4								
DBE1.500A.80.DG or DBRE1.500A.80.DG					1	1	1	1				
DBE3.500C.170.DG or DBRE3.500C.170.DG					4	4	4	4				
DBE1.550A.80.DG or DBRE1.550A.80.DG									1	1	1	1
DBE3.550C.170.DG or DBRE3.550C.170.DG									4	4	4	4
DA6101E4.80.DG (brackets)	1	1	1	1	1	1	1	1	1	1	1	1
DA6102E3.80.DG (covers)	1	1	1	1	1	1	1	1	1	1	1	1
DA6101E4.170.DG (brackets)	4	4	4	4	4	4	4	4	4	4	4	4
DA6102E3.170.DG (covers)	4	4	4	4	4	4	4	4	4	4	4	4
DA6103E3.120A.DG (front panel)	1	2	2	3	1	2	2	3	1	2	2	3
DA6104E2.120C.DG (front rail)	1	2	3	3	1	2	3	3	1	2	3	3

Magic Box larder towers for glass fronts - front panel and rail replaced by												
Drawer Depth	450				500				550			
Cabinet Width	300	400	500	600	300	400	500	600	300	400	500	600
DA6103E2.120A.DG (front panel)	1	2	2	3	1	2	2	3	1	2	2	3

Order Codes	DBE.A450.(W)*	DBE.A500.(W)*	DBE.A550.(W)*	* (W) = Cabinet Width
	DBE.A450.(W)*	DBE.A500.(W)*	DBE.A550.(W)*	
	DBE.G450.(W)*	DBE.G500.(W)*	DBE.G550.(W)*	
	DBE.G450.(W)*	DBE.G500.(W)*	DBE.G550.(W)*	
Aluminium fronts (SC)				
Aluminium fronts (PTO)				
Glass fronts (SC)				
Glass fronts (PTO)				

Superslim COBOX

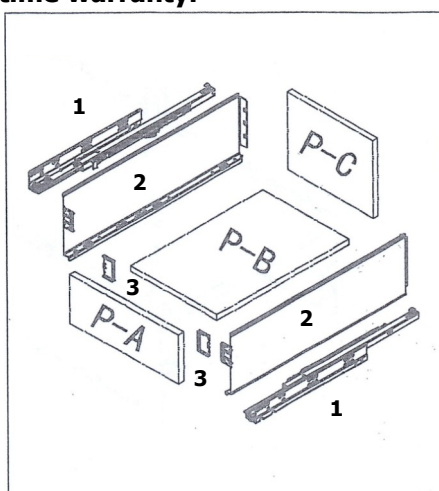


Superslim COBOX

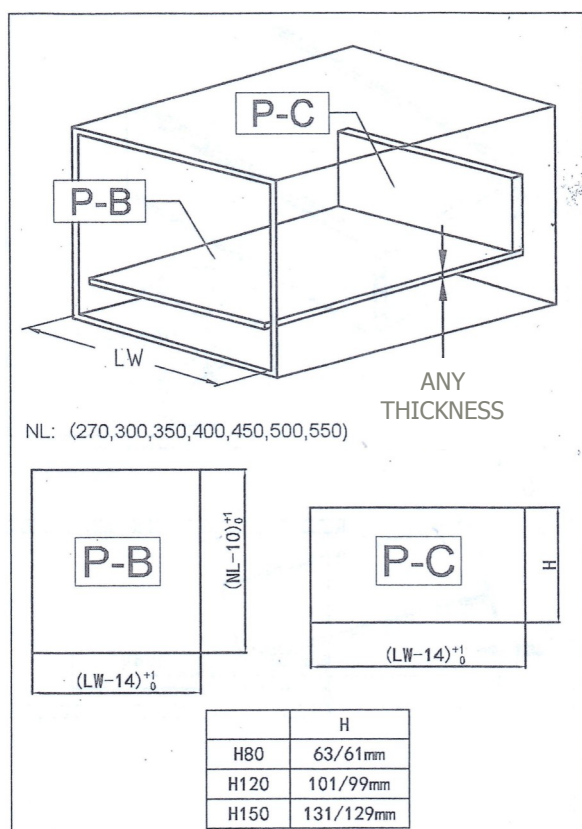
The new superslim COBOX drawers offer a stylish, durable and versatile alternative to the Magic Box twin walled range. With clean modern styling and rigid single skin sides produced from 1.2mm thick steel plate finished in a durable textured dark mocca-grey coating they are equally suited for installation in high quality domestic bedrooms, bathrooms and kitchens, home office applications or commercial projects such as student accommodation blocks and hotel developments. They are also ideally suited for use in caravans and camper van conversions.

The Unihopper single extension soft close runners provide a smooth soft close action and a 30kg rating for the drawers. Assembly is quick and easy with adequate adjustment. Any thickness of board can be used for the back and base giving extra flexibility to this innovative drawer system.

For complete peace of mind all Superslim COBOX components are covered by our no-quibble life-time warranty.

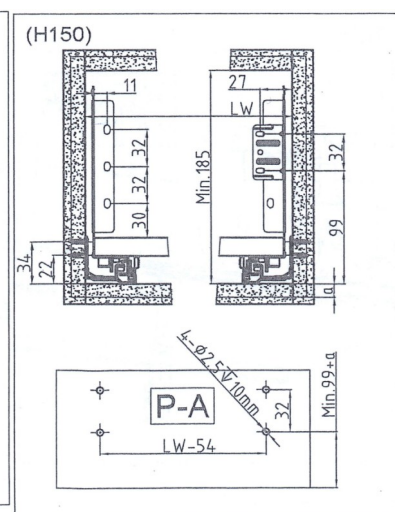
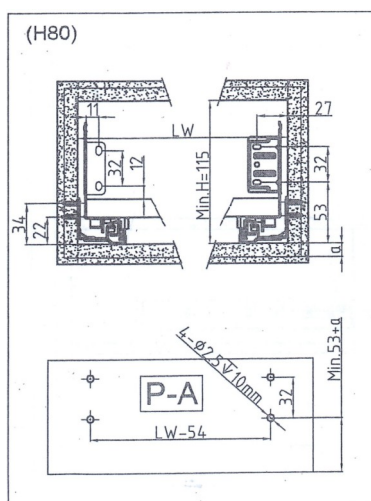


Superslim COBOX	
Nominal Length	Product Code
H80	
270 mm	DBEB1.270A2.TCA
300 mm	DBEB1.300A2.TCA
350 mm	DBEB1.350A2.TCA
400 mm	DBEB1.400A2.TCA
450 mm	DBEB1.450A2.TCA
500 mm	DBEB1.500A2.TCA
550 mm	DBEB1.550A2.TCA
H150	
270 mm	DBEB1.270C2.TCA
300 mm	DBEB1.300C2.TCA
350 mm	DBEB1.350C2.TCA
400 mm	DBEB1.400C2.TCA
450 mm	DBEB1.450C2.TCA
500 mm	DBEB1.500C2.TCA
550 mm	DBEB1.550C2.TCA



IN THE BOX

- 1 Undermount runners**
- 2 Drawer sides**
- 3 Front bracket covers**



CABINET LEGS



04.BI10.100



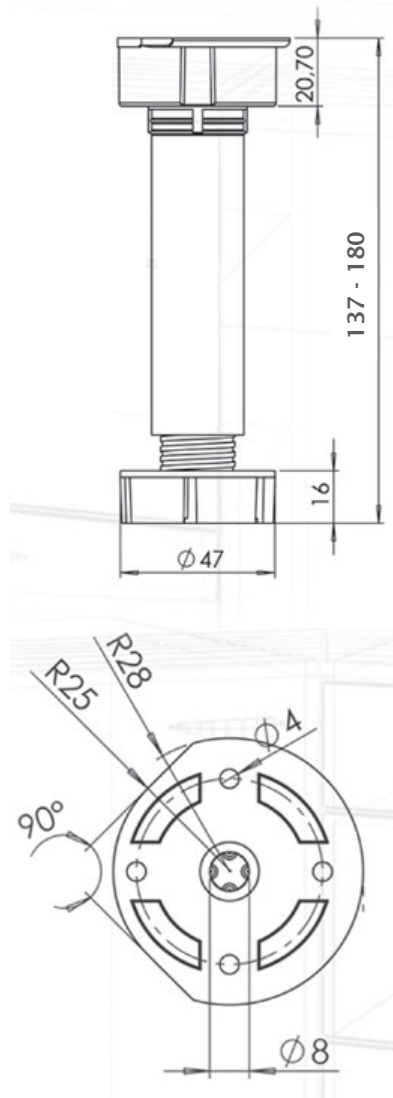
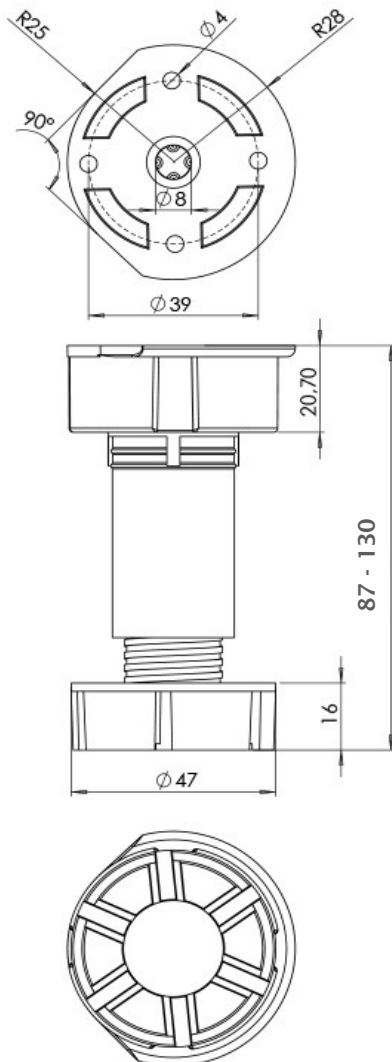
04.BI10.150

The BI10 range of legs and clips is ideal for floor cabinet installations with plinth heights from 87mm to 180mm. They are easy to fix and adjust and consist of three components, a socket, a threaded tube and a foot with an integrated adjustable screw. The screw-on two piece clip makes plinth fitting easy and secure.

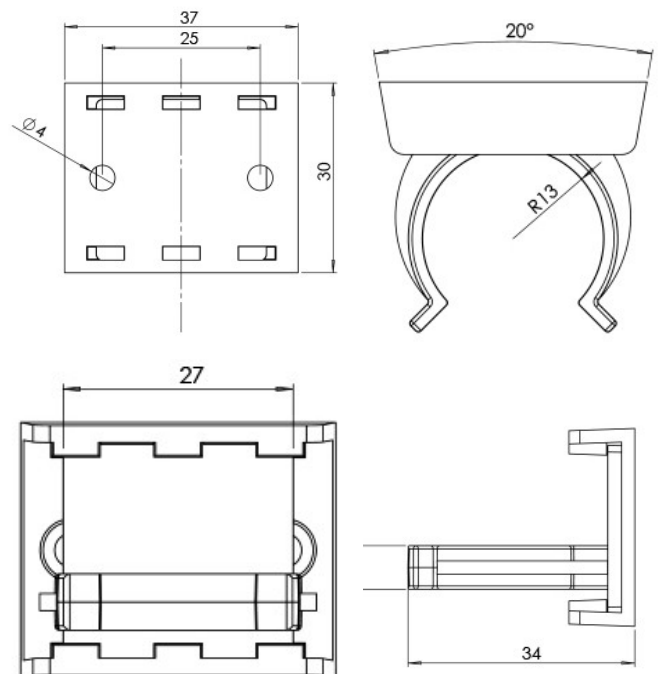
With a weight rating of 220kg they are robust enough for most installations

Standard Legs

Type	Product Code
Adjustable PVC leg h-90-130mm - 220kg	04.BI10.100
Adjustable PVC leg h-140-180mm - 220kg	04.BI10.150
PVC clip for legs - type A	04.BI10.000



04.BI10.000



MULTILEGS

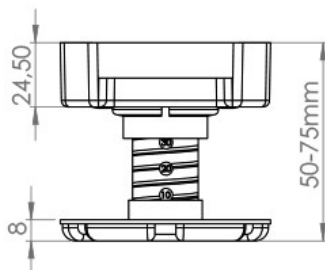
The BI50 MULTILEG is our premium quality leg, shatterproof and with a load rating of 450kg, these legs can support any piece of domestic or commercial cabinetry.

MULTILEGS are offered in three sizes with a total range of height adjustment from 50mm to 195mm.

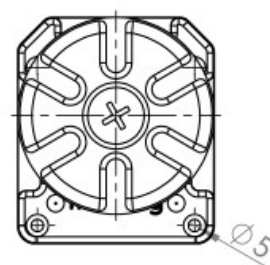
Even at maximum extension the legs' strength and stability are uncompromised.

MULTILEGS	
Type	Product Code
MULTILEG PVC leg h-50-75mm - 450kg	04.BI50.060
MULTILEG PVC leg h-85-125mm - 450kg	04.BI50.100
MULTILEG PVC leg h-125-195mm - 450kg	04.BI50.150
MULTILEG clip for plinths	04.BI50.099

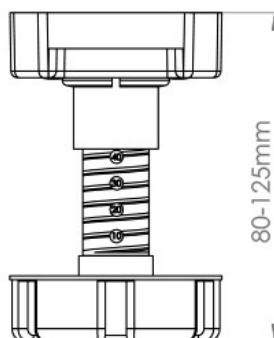
04.BI50.060



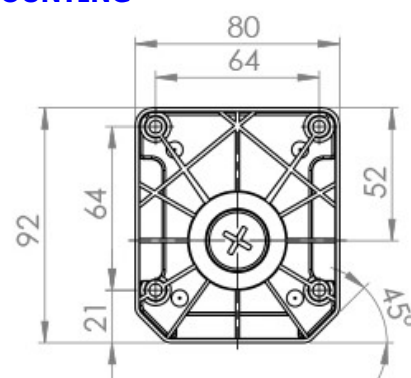
FOOT



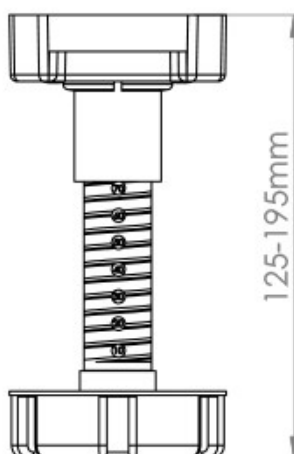
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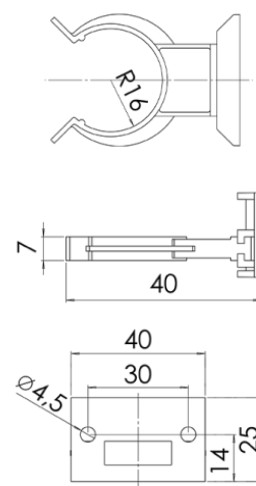
MOUNTING



04.BI50.150



CLIP



K-PUSH CATCHES



K-PUSH STRONG magnetic push catches have the power required to produce a reliable push to open function for understair pull-outs and even the largest and heaviest of cabinet doors. The 37mm throw provides plenty of space for fingers when opening but is easy to close with a smooth latching action thanks to the strong and reliable permanent magnet. The self adhesive brushed steel door plate is smart and discrete. K-PUSH catches are designed to be set in the cabinet sides but can be surface mounted with the optional base plate and cover if preferred.

K-PUSH STRONG MAGNETIC PUSH CATCHES

Type	Product Code
K-PUSH STRONG 37mm catch - Light Grey	IF-57008060IJ
K-PUSH STRONG 37mm catch - Dark Grey	IF-57008060EE
K-PUSH 37mm cover - White	IF-57025020AB
K-PUSH 37mm cover - Light Grey	IF-57025020IJ
K-PUSH 37mm cover - Dark Grey	IF-57025020EE
K-PUSH 37mm base plate - White	IF-57025040AB
K-PUSH 37mm base plate - Light Grey	IF-57025040IJ
K-PUSH 37mm base plate - Dark Grey	IF-57025040EE
15mm diameter door plate - Brushed Steel	IF-55006160XD



K-PUSH CATCH



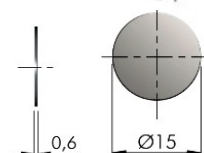
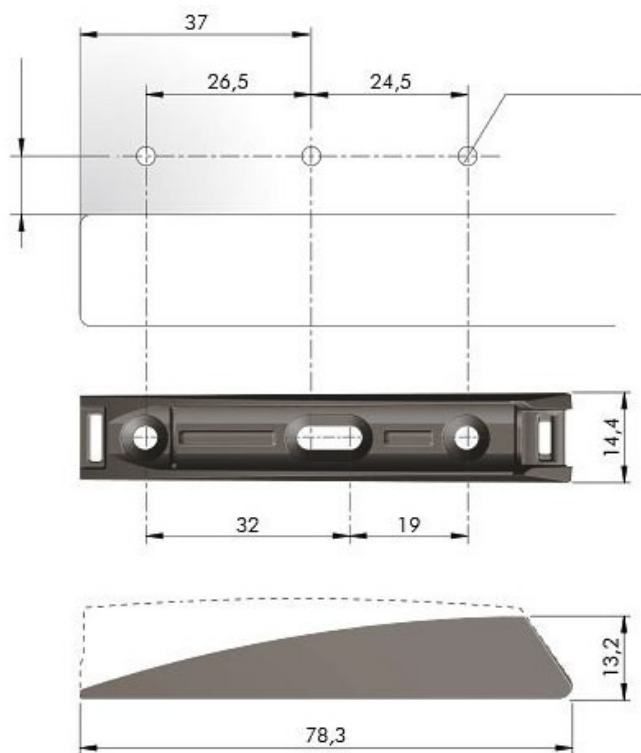
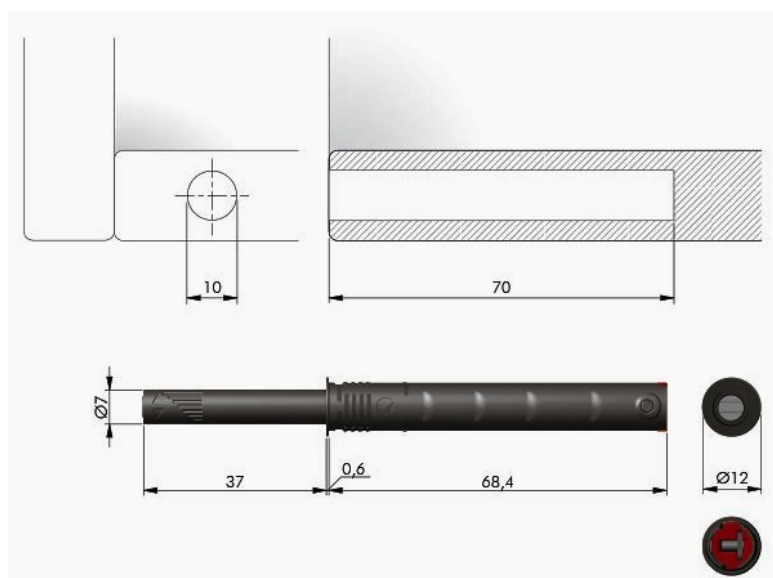
PLATE



BASE



COVER



PUSH CATCHES

The Unihopper surface mounted push catches are now produced in the Grasshopper Group's new state of the art factory and have greatly improved quality and finish compared with the visually similar products previously in our range. The catches are available in two types, a magnetic version which comes with a screw-in door plate and a rubber tipped non-magnetic type for installations where the door does not need to be held in place when closed. The catches have a low profile, just 11mm high when mounted and the pale grey and brushed steel finish blends well with any cabinet style. Unihopper HG1112.C0.0 hinges are recommended for use with the magnetic catches

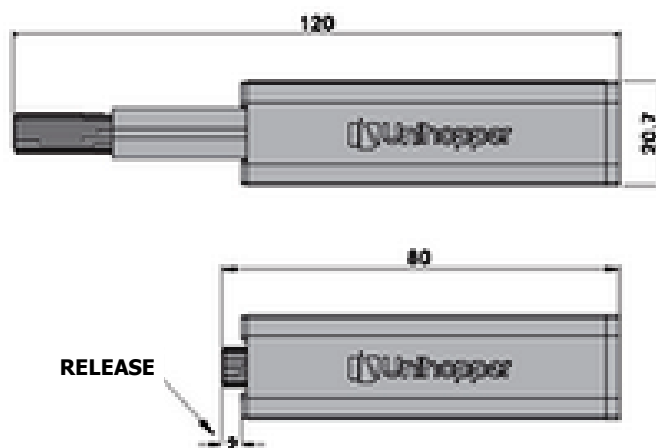
MAGNETIC TYPE



BUFFER TYPE



UNIHOOPER PUSH CATCHES	
Type	Product Code
Push catch - surface mounted, magnetic type	MC1113C.GR
Push catch - surface mounted, buffer type	MC1117A.GR



The Unihopper RE11 series soft close gas lift with adjustable damping is easy to fit and adjust. It is available in 60N, 80N, 120N and 150N versions.

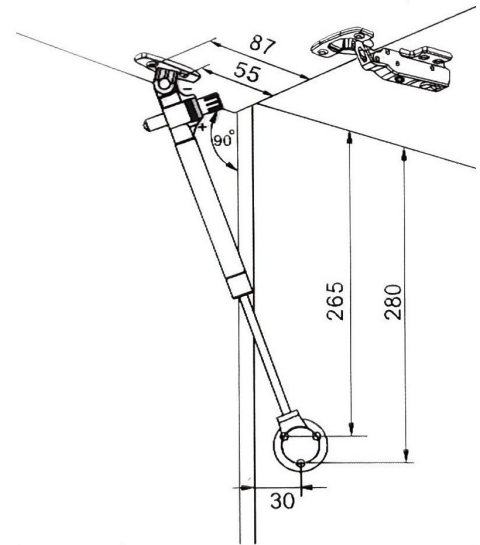


GH.RE11 Gas Lift



Adjustable Damper

Power	Product Code
60N	GH.RE11.060
80N	GH.RE11.080
120N	GH.RE11.120
150N	GH.RE11.150



The Unihopper RE09 is constructed from chromed steel with polished steel ball joints and will enhance the appearance of any item of high quality bespoke furniture. It is available in 60N and 80N versions.

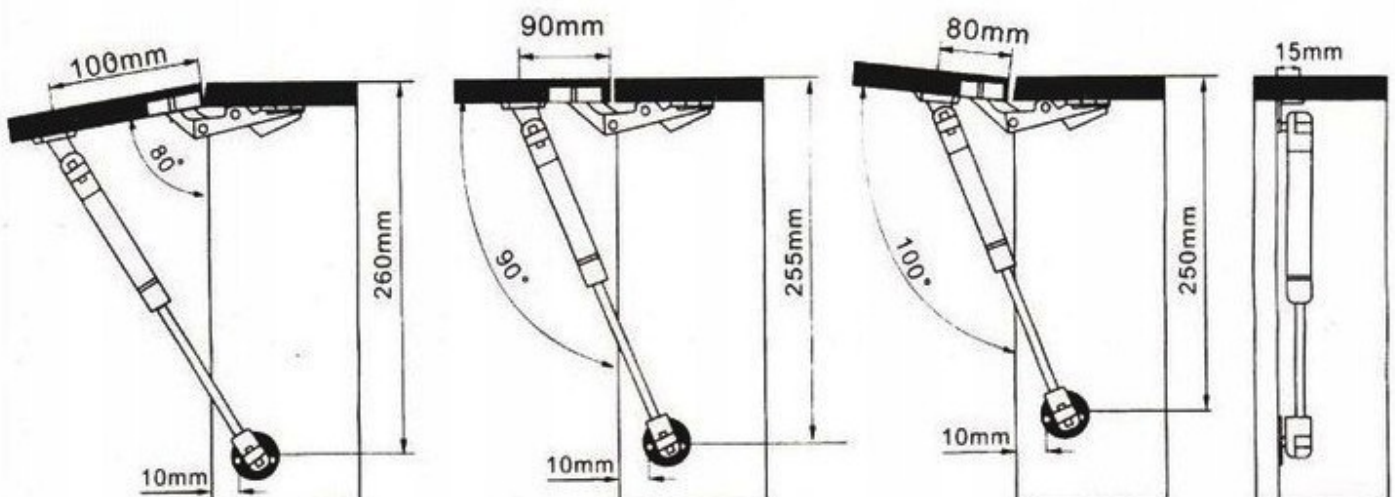
GH.RE09 Gas Lift



Power	Product Code
60N	GH.RE09.060
80N	GH.RE09.080

Unihopper gas lift power requirements

Lift up panel height (mm)	Lift up panel width (mm)			
	450	600	900	1200
300	1 x 60N	1 x 80N	2 x 60N	2 x 80N
350	1 x 80N	2 x 50N	2 x 80N	2 x 80N
400	2 x 50N	1 x 120N	2 x 80N	2 x 120N
450	1 x 120N	1 x 150N	2 x 120N	2 x 150N
500	1 x 150N	2 x 80N	2 x 120N	N/A
550	2 x 80N	2 x 120N	2 x 150N	N/A
600	2 x 120N	2 x 120N	N/A	N/A
650	2 x 120N	2 x 150	N/A	N/A



Grasshopper's GH-Pro range of gas lifts and gas stays are premium quality products with power ranges from 50N to 120N and a five year no quibble guarantee. They are easy to fit and come with either standard or quick-fit mountings. All metal parts are solid and bright plated with all fixings included for both solid wood and aluminium framed doors. Apart from the short gas lift which is finished in white, all other products in the range have metallic silver barrels and mid grey end pieces which complement a wide range of furniture finishes.

GH.RE08 Gas Lift



GH.RE04 - BARK Gas Stay



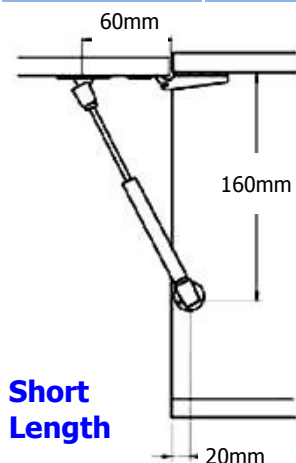
GH.RE04B Gas Lift



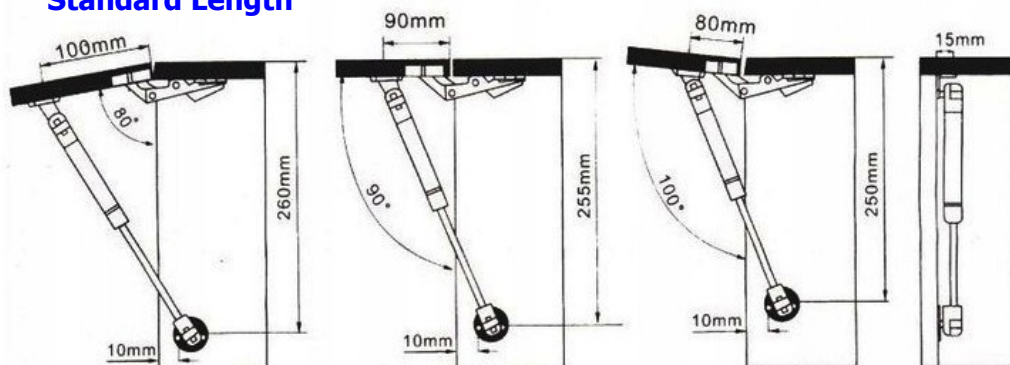
GH.RE04BE Gas Lift

Product Code	Description
GH.RE04.BARK	Standard length drop down stay in grey, 80N
GH.RE04B.050	Standard length lift in grey, 50N
GH.RE04B.060	Standard length lift in grey, 60N
GH.RE04B.080	Standard length lift in grey, 80N
GH.RE04B.120	Standard length lift in grey, 120N
GH.RE04BE.050	Standard length quick release lifts in grey, 50N (2)
GH.RE04BE.080	Standard length quick release lift in grey, 80N
GH.RE04BE.120	Standard length quick release lift in grey, 120N
GH.RE08.060SWT	Short length quick release lift in white, 60N

GH-Pro gas lift power requirements				
Panel height (mm)	Lift up panel width (mm)			
	450	600	900	1200
300	1 x 60N	1 x 80N	2 x 60N	2 x 80N
350	1 x 80N	2 x 50N	2 x 80N	2 x 80N
400	2 x 50N	1 x 120N	2 x 80N	2 x 120N
450	1 x 120N	1 x 150N	2 x 120N	2 x 150N
500	1 x 150N	2 x 80N	2 x 120N	N/A
550	2 x 80N	2 x 120N	2 x 150N	N/A
600	2 x 120N	2 x 120N	N/A	N/A
650	2 x 120N	2 x 150	N/A	N/A



Standard Length



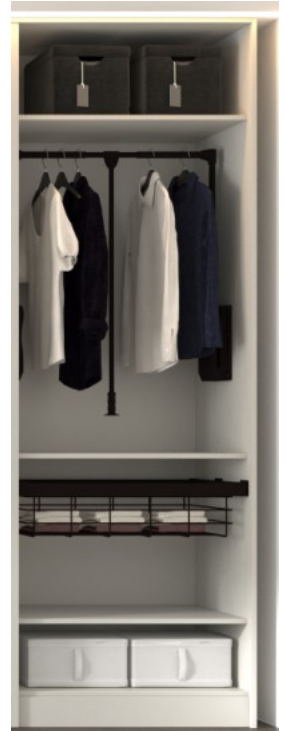
WARDROBE SYSTEM



The Unihopper Moka range of wardrobe fittings is available in mocca and white colourways. All of the framed pull out fittings have soft close undermount runners and the top mounted tie rack and hanging rail have an integrated soft close mechanism.

Each pull out fitting is available in three sizes to fit cabinet widths of 600mm, 800mm and 900mm but the frames can be extended by up to 50mm to fit non-standard furniture. Every item in the range is supplied as a complete set in one box, making ordering and installation as simple as possible.

The whole range is covered by Unihopper's no quibble life-time guarantee.



WS4117S Jewellery Tray

Like all pull out wardrobe units, the jewelry tray can be fitted with a drawer front if preferred.



WS4119S PVC Rattan Basket

The PVC woven Rattan Basket is 170mm deep and has a concealed steel frame. The Steel Storage Basket is available in either 100mm or 150mm depths



WS4120S Steel Storage Basket

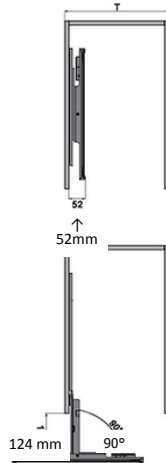


WS4122S Trousers Rack



WS4126S Shoe Rack

WARDROBE SYSTEM



WS3104S1 Rotating LED Mirror

The rotating LED Mirror extends on soft closing slides and turns to 90° when fully extended. There is a full length LED strip built into either side of the mirror which illuminates automatically when the mirror is extended. The LEDs are powered by a small battery pack which is mounted behind the mirror.

The minimal frames at either side of the mirror are in mocca finish. The mirror is a generous 1,040mm by 423mm size.

WS4307S Top mounted Hanger



WS4310S Side mounted Tie Rack

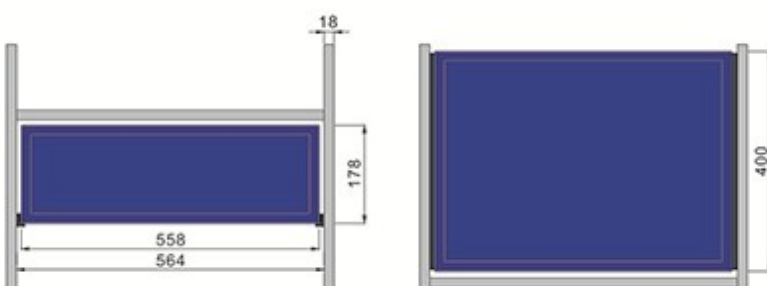


WS4138FP Lockbox

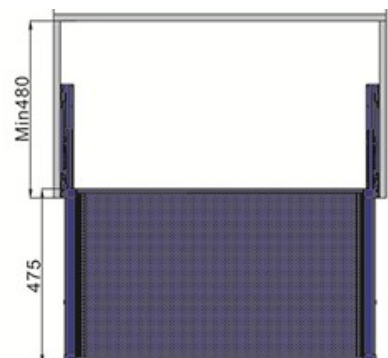
The Unihopper Lockbox has the option to unlock using a code input with the touch screen number pad or by touching the fingerprint sensor. The lockbox can be opened to reveal the touch screen but will not open fully until unlocked. A matching front can be fitted to hide the lockbox within a cabinet of fitted drawers.



WS4138FP Lockbox Dimensions



Pull out Wardrobe Unit Dimensions



WARDROBE RAILS

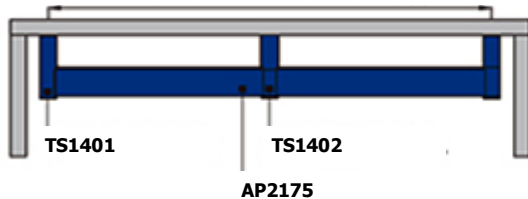
Unihopper offers two types of hanging rail to complement the Moka range of wardrobe fittings. The AP2175 fixed rail is a 30mm x 12mm aluminium profile with a plastic buffer fitted to the top to protect the surface of the rail from scratching and to ease the silent movement of hangers along the rail. The rail is available in mocca and silvers and will support over 50kg of hanging clothes without flexing. End supports can be either top mounted or side mounted and the top mounted 90 degree support allows two rails to be connected to maximise hanging space in a corner unit.

The other rail is the WS2101S series of pull-downs (detailed on the next page) which give easy access to clothes hanging at a higher level. Also known as wardrobe lifts, they are pulled down by the central handle and when released a built in soft close spring mechanism returns the rail to the upright position.

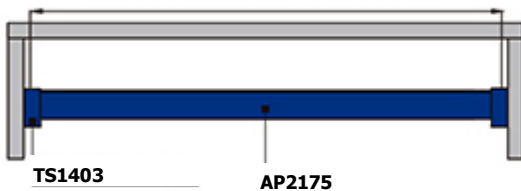


Product Code	Description
AP2175.600.(*)	Unihopper wardrobe rail NL590mm
AP2175.950.(*)	Unihopper wardrobe rail NL950mm
AP2175.1000.(*)	Unihopper wardrobe rail NL1000mm
AP2175.1200.(*)	Unihopper wardrobe rail NL1190mm
AP2175.1500.(*)	Unihopper wardrobe rail NL1500mm
TS1401.(*)	AP2175 top mounted end support
TS1402.(*)	AP2175 top mounted middle support
TS1403.(*)	AP2175 side mounted end support
TS1404.(*)	AP2175 top mounted corner support
(*)	MCA = moccca, SV = silver

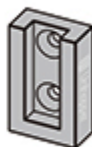
External cabinet width less 150mm



Inner cabinet width less 12mm

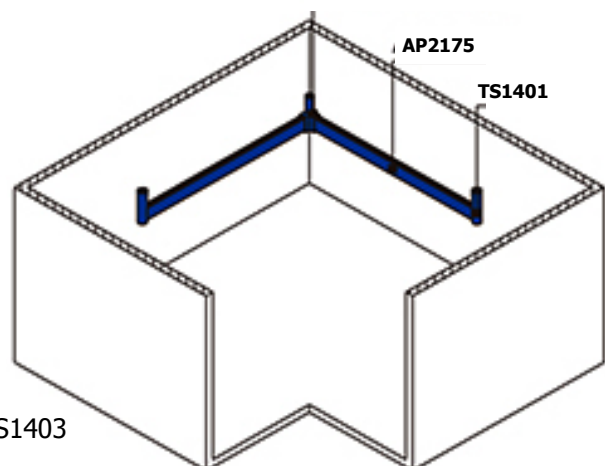


TS1401

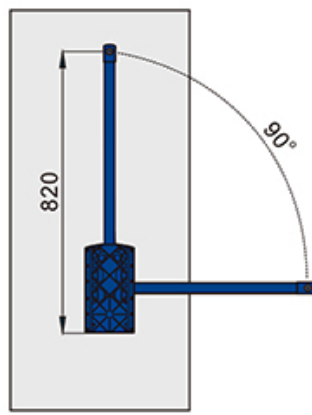
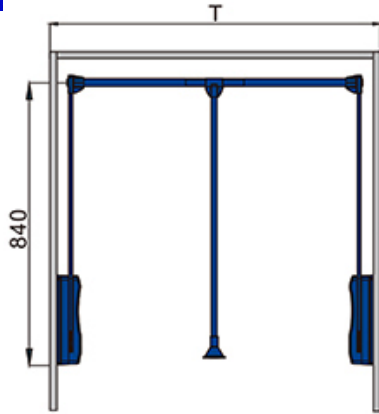


TS1403

TS1404



WARDROBE LIFTS



The WS2101S rail is easily pulled down from the vertical to horizontal position for easy access to clothes hanging in taller wardrobes. The mechanism counterbalances the weight of the hanging clothes and the integrated soft close mechanism gently returns the rail to the vertical position.



Product Code	Description
WS2101S.450-600.MCA	Wardrobe lift 450-600mm, mocca
WS2101S.450-600.SV	Wardrobe lift 450-600mm, silver
WS2101S.600-830.MCA	Wardrobe lift 600-830mm, mocca
WS2101S.600-830.SV	Wardrobe lift 600-830mm, silver
WS2101S.830-1150.MCA	Wardrobe lift 830-1150mm, mocca
WS2101S.830-1150.SV	Wardrobe lift 830-1150mm, silver

The hanging rail can be easily cut to size to fit any width of wardrobe in the range for each model of wardrobe lift. As shown in the diagram (above left) the covers protrude by 20mm below the lift mechanism. The Unihopper wardrobe lift will support up to 12.5kg of hanging clothes.

Product Code	External cabinet width "T"
WS2101S.450-600	544mm to 654mm
WS2101S.600-830	644mm to 914mm
WS2101S.830-1150	876mm to 1289mm

LED LIGHTING



The Neonlynx flexible LED strip is designed to make curved or straight lines of light in furniture. It slots directly into a 4mm wide, 11mm deep rebate so does not require profiles or lenses and offers much more design freedom than traditional LED strips. Made from high quality silicone for consistent colour temperature, it also has an IP65 protection rating so is suitable for installation in potentially damp environments.

The Neonlynx strip is available in 1m, 3m and 5m lengths with a 1.5m power cable at each end so that both ends of a cut strip can be used without needing connectors or re-wiring. The power cables clip into the 24 volt DC transformers which are available with 15W, 30W and 50W outputs. The transformers come with a 2m mains lead for easy integration with fitted furniture.

Switching can be by touch sensors, motion sensors or mechanical switching. Touch and motion sensors can be integrated discreetly into furniture and operate on the mains supply for optimum energy efficiency.



LED STRIP



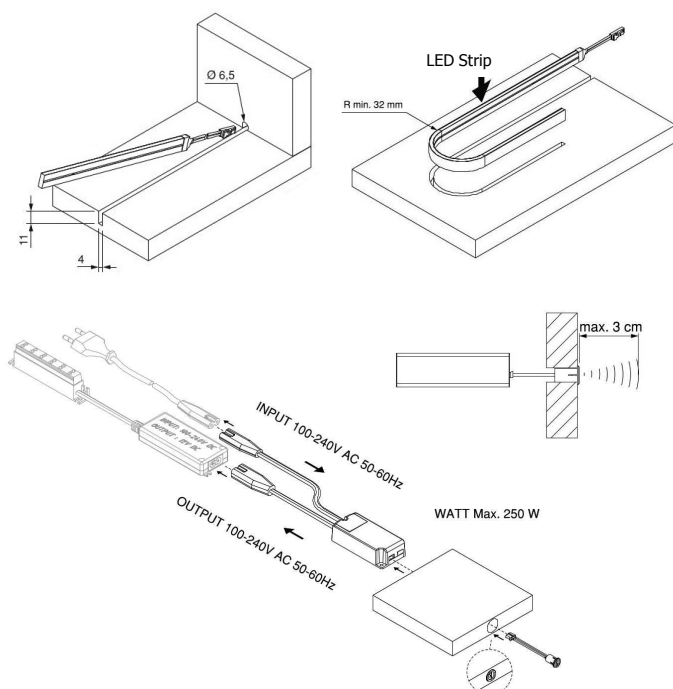
24V TRANSFORMER



SENSOR SWITCH

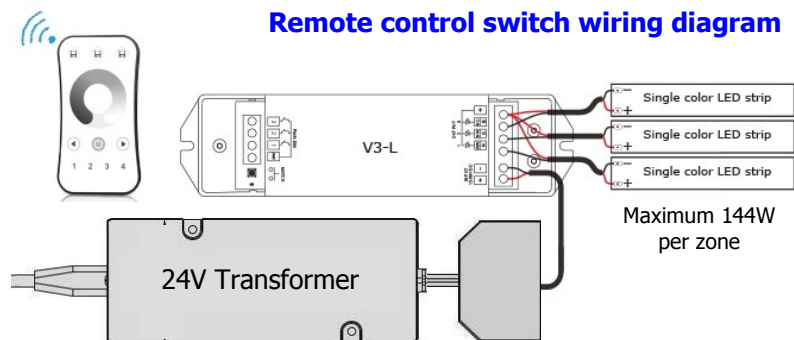


TOUCH SWITCH



Product Code	Description
NL5204220	1m Neonlynx LED Strip - Natural White
NL5206020	1m Neonlynx LED Strip - Warm White
NL5204320	3m Neonlynx LED Strip - Natural White
NL5206120	3m Neonlynx LED Strip - Warm White
NL5204420	5m Neonlynx LED Strip - Natural White
NL5206220	5m Neonlynx LED Strip - Warm White
NL5211220	24V 15W Transformer
NL5147620	24V 30W Transformer
NL5147720	24V 50W Transformer
NL5209520	24V 100W Transformer for NL5205920
NL5205920	Remote control dimmer switch
NL5205720	Remote control handset
NL5040725	Door switch - single
NL5040825	Door switch - double
NL7001920	Touch sensor switch
NL7006011	Contact for touch sensor switch

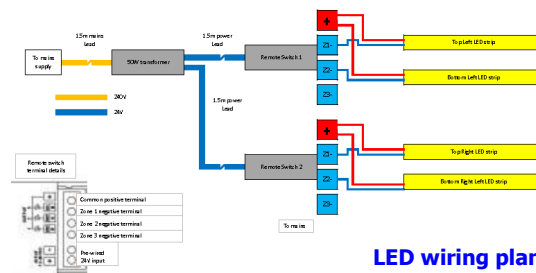
The Remote control dimmer switch and handset make sophisticated lighting designs easy to install and set up. Each handset can control up to four remote switches and the lighting controlled by each remote switch can be split into three zones, each of which can be dimmed independently allowing one handset to adjust the light intensity in up to twelve zones. To make the most of the remote switch's functions it is ideally paired with the Neonlynx 100W driver and one or more Six to One adaptors.



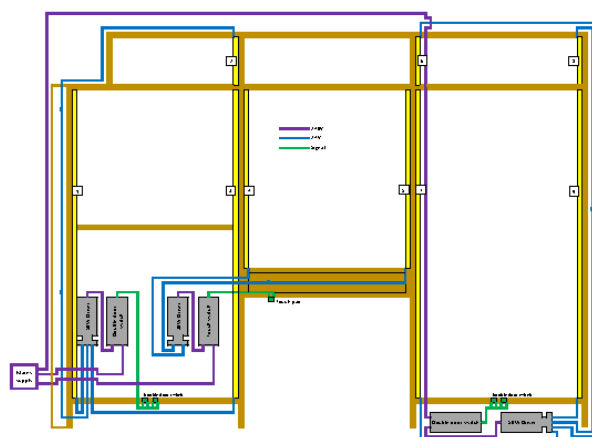
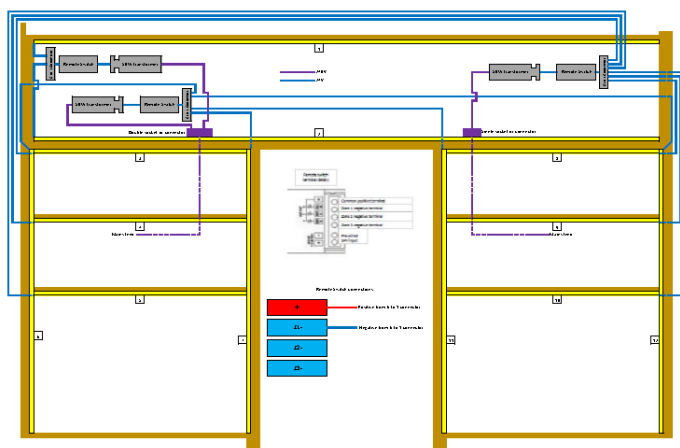
Technical Support

The Neonlynx LED lighting system is simple to install and use but to get the most from the functions and flexibility it offers we are pleased to give individual advice and support to ensure the best outcome for your project. Given details of your plans we will advise on the most economical and practical way of achieving your design criteria, backed up if required with Schematics and Wiring Plans to guide the installation process. Just contact us through our web site (www.grass-hopperuk.co.uk) or send an e-mail - with a plan of your project attached - to info@grass-hopperuk.co.uk and we will respond with a list of the components you will need to use to achieve your design brief at minimum cost.

You can then order exactly what you need through our on-line shop.



If the installation requires more complex circuitry then we can also provide detailed schematics and wiring plans like the examples shown alongside and below.



LED schematic diagrams



Bespoke Made to Measure Aluminium Framed Glass Doors and Furniture Fronts

Grasshopper Solutions Aluminium Frames are manufactured in the Group's state of the art aluminium processing factory in Poland where machines using advanced CNC technology produce consistent accuracy of product dimensions and component fit. The factory's dimensional database ensures precise milling of hinge locations for any commercially available hinge.

The Grasshopper Solutions Glass Factory uses similar technology to process the glass for the aluminium framed fronts. Production runs can be from just a few individual pieces to thousands of cut, polished and laminated glass components.

Any photograph or graphic can be applied to the glass either as a surface film or between laminated glass sheets.

Any 4mm thick glass or sheet material can be used in the frames. The alternatives include clear, frosted, tinted, self coloured and painted glass as well as textured, fluted and patterned designs.

For safety all clear, etched and self coloured glass is toughened and glass which cannot be heat treated, such as painted and mirror glass, has a safety film applied before fitting.

Frames can also be supplied as a set of components for glazing and assembly by our customers.

The fronts and frames can be drilled to take surface mounted handles or alternatively a range of edge fitted handle profiles are available for which several milling options are available.

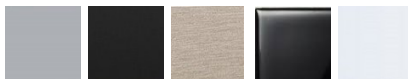
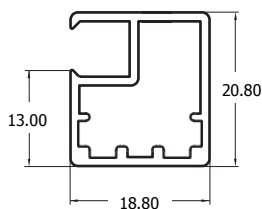
With seven styles of frame, each available in up to four finishes and Lacobel's wide range of coloured and textured glass, the options available for designers are almost limitless.

The lead time for order to dispatch is normally three to four weeks.

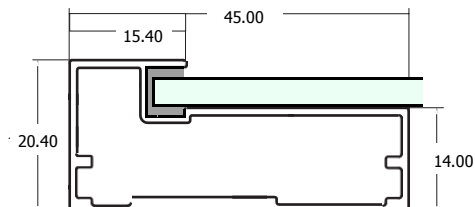
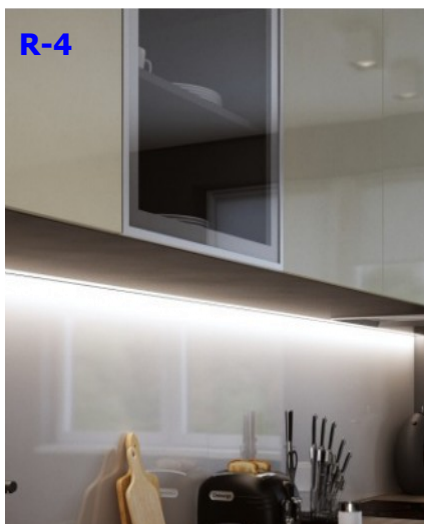
FURNITURE FRONTS

Frame Options

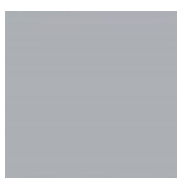
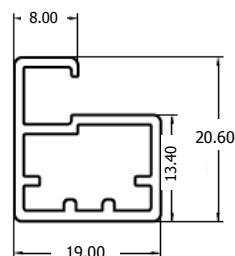
R-1



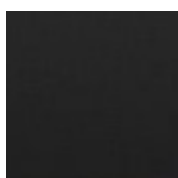
R-4



R-10



Silver



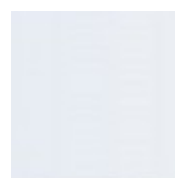
Matt Black



Inox



Gloss Black

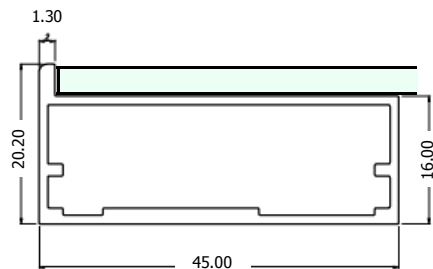


Gloss White

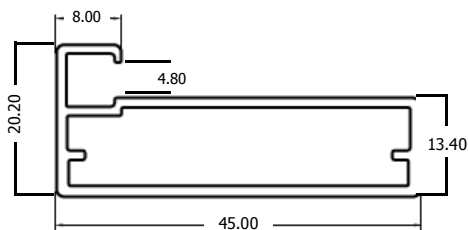
FURNITURE FRONTS

Frame Options

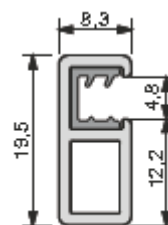
R-11



R-13



R-15

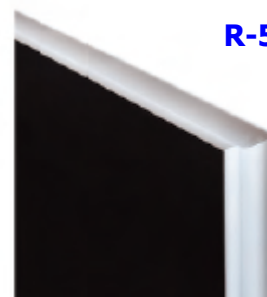
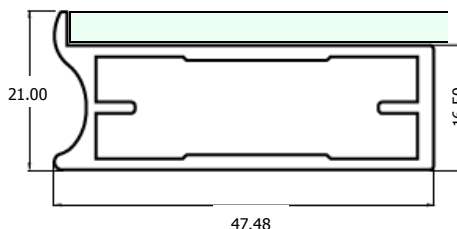


FURNITURE FRONTS

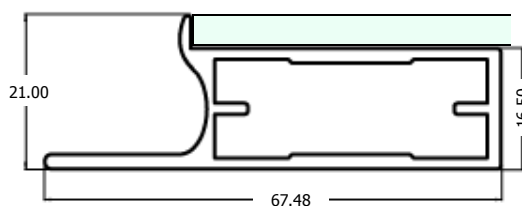
Handle Options

Frame profiles R-50 and R-51 can be combined in a single frame to form an integral handle on any edge or to create a finger gap between fronts. When used in glass fronted drawers the R-51 profile is used for the top frame.

For the other profiles any handle can be fitted to the front of the door or we offer a range of edge and rear mounted handle options which create a very clean, minimalist style. The handle profiles can be fitted full length, as a cut section or as a full length profile with the projecting handle milled out as shown below right. Handle profiles are available in Silver, Inox and Gloss Black finishes.



R-50

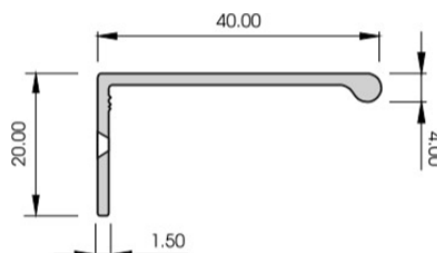


R-51



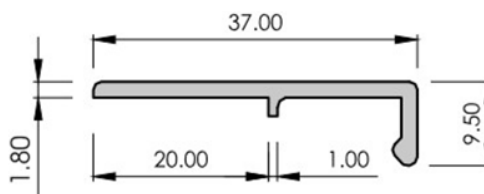
Handle Profile LU-9

This handle profile is fixed to the frame with screws behind the frame profile.



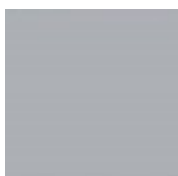
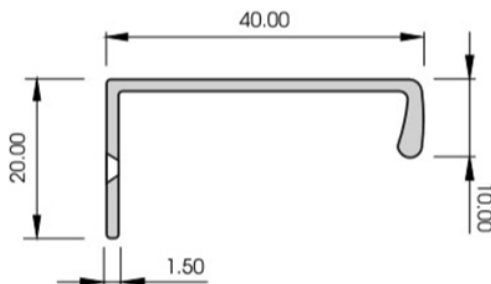
Handle Profile LU-11

This handle profile is fixed to the frame with double sided adhesive tape.



Handle Profile LU-15

This handle profile is fixed to the frame with screws behind the frame profile.



Silver



Inox

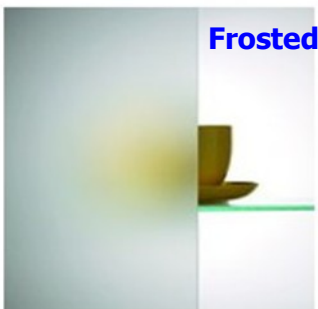


Gloss Black

FURNITURE FRONTS

Insert Options

Grasshopper Solutions only use high quality European manufactured glass products as inserts. Apart from the Lacobel, Matelac, Lacomat and Planibel ranges a wide range of Fluted, Textured and Patterned glass can be specified.



LACOBEL

MINIMALIST



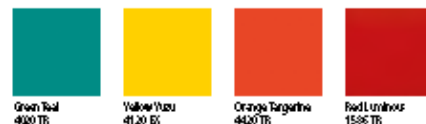
NATURAL



TRADITIONAL



VIBRANT

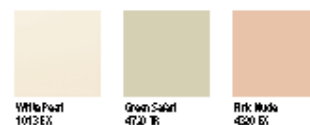


MATELAC

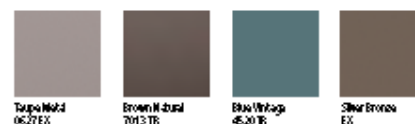
MINIMALIST



NATURAL

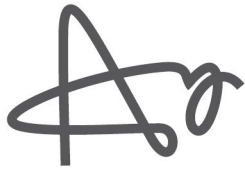


TRADITIONAL



VIBRANT





GRASSHOPPER®
GROUP LIMITED

LACQUERED MDF DOORS

As an alternative to aluminium and glass doors Grasshopper Solutions offers a range of high quality lacquered MDF cabinet doors. They are available in flat, shaker, moulded and fielded styles. The doors are milled out of solid high quality MDF board and then a specialist multi-coat lacquer is applied to produce a flawless, hard wearing finish. The doors are a bespoke, made to measure product and lead time from order to dispatch is normally four to six weeks. There are nine designs and the standard colours are white, cream and anthracite but any RAL colour can be specified for a small additional charge per order. The doors can be finished with either a satin or gloss finish.



NOTES:

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



ALL UK STOCK - NEXT DAY DELIVERY



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