

HANG- EN SLUITWERK

6 - Handgrepen



Reken op ons.

Auerhaan Lelystad is een bedrijf met een zeer lange historie; opgericht in 1885, is het bedrijf een bekende en betrouwbare toeleverancier van producten voor de carrosseriebouw, busbouw, machinebouw, scheepsbouw en jachtbouw. Vele vertegenwoordigingen van gerenommeerde fabrikanten in Europa en daarbuiten maken het productassortiment van Auerhaan tot een zeer breed programma. Het mag u dan ook duidelijk zijn dat de informatie die wij u geven via deze website nooit compleet kan zijn.



Hang- en Sluitwerk

Auerhaan levert kant-en-klare oplossingen voor slot- of vergrendelingssystemen en toegangscontrole voor nieuwbouw en aftermarket. Door een jarenlange samenwerking met toonaangevende fabrikanten zoals Weston Body Hardware (WBH) zijn betrouwbare en kwalitatief hoogwaardige producten ontwikkeld die onder andere worden toegepast in onderstaande bedrijfstakken:

Industriële toepassingen:

- Energie-, meet- en regeltechniek
- Generatoren
- Machinebouw
- Omkastingen

Voertuigbouw, carrosseriebouw en transport:

- Autoaanpassingen
- Bedrijfsvoertuigen
- Camper- en caravanbouw
- Militaire voertuigen en offroad voertuigen
- Railmateriaal
- Speciaalbouw

Gebouwenteknik:

- Klimaattechniek
- HVAC&R
- Toegangssystemen

Scheepsbouw en offshore:

- Commerciële vaartuigen
- Jachtbouw
- Marineschepen

Auerhaan is daarnaast ook uw partner in bovengenoemde sectoren op het gebied van comfort, hygiëne en interieur. U kunt hierbij denken aan producten als kookplaten en spoelbakken voor schepen en voertuigen alsook koel- en vrieskasten. Isolatiemateriaal ten behoeve van geluid, geluidsabsorptie, ontdreuning en isolatie van warmte of koude. Een breed programma LED verlichting. rubber- en kantprofielen, verwarming en ventilatie in 12 en 24 volt, vastzetsystemen en veiligheidsgordels.

1 - Kleine inbouwsloten

Het gamma “kleine inbouwsloten” omvat sluitingen voor kleinere deuren, luiken en kleppen van industriële kasten, gereedschapskisten of machines voor toepassingen binnen en buiten. Verschillende inbouwdiepten zijn leverbaar, bediening is mogelijk door middel van een normale sleutel of in sommige uitvoeringen door middel van speciaal gereedschap.

2 - Deurkrukken

Het assortiment “deurkrukken” bestaat uit opbouw-deurgrepen in afsluitbare en niet-afsluitbare modellen. De portierkrukken of T-krukken zijn ook verkrijgbaar als half-inbouw of met een inbouwschaal. Voor extra sterke toepassingen zijn onze “Heavy-Duty”modellen in modern design een goede keuze. De krukken zijn verchroomd of voorzien van een zwarte poedercoating.

3 - Inbouwsloten

Onze “inbouwsloten” kennen vele toepassingen, als deurslot in een omkasting van aggregaat of machine, in kisten voor de carrosseriebouw of serviceluiken van zwaar materieel, schepen en HVAC-opstellingen. Verkrijgbaar als klap- of T-greep uitgevoerd met grendel, vastzethaak, espagnolet of 3-weg sluitpunten. Uitgevoerd in RVS of sterke kunststof “driMET” (IP65 beschermd) in een aantrekkelijke vormgeving.

4 - Overigesluitingen

Auerhaan heeft bandenbaksloten, trekgrendels en eindknippen in staal, kunststof of RVS in diverse afmetingen. Verende deursloten met of zonder binnen-bediening en kabel- of stangbediende “anti-diefstal” sluitsystemen voor voertuigen en machines. Met de daarbij behorende deurvangers, schootplaten, slotpenen of -haken. Slotbedekkers in chroom of kunststof zorgen voor een nette afwerking.

5 - Scharnieren

Scharnieren zijn er in vele uitvoeringen. Voor elke toepassing hebben wij een geschikte oplossing. Vaste of uitneembare modellen in staal, RVS of zware kwaliteit kunststof. Van (verzonken) schroeven tot “blinde montage” door middel van draadeinden; de mogelijkheden zijn veelzijdig. Rechte stalen scharnieren, aanlaspaumelles (met of zonder smeennippel) en blokscharnieren in verschillende afmetingen. Een solide afwerking om uw product toegankelijk te maken.

6 - Handgrepen

Om vast te houden, open te maken of op te tillen, wij leveren diverse handgrepen voor in- en opbouw van interieur, machines of kisten. Voor grote schuif- of roldeuren of juist voor kleinere meet- en regelkastjes. Leverbaar zijn “traditionele” verchromde handgrepen of sterke kunststof met een glad of gestructureerd oppervlak (in zwarte kleur). Ook voor opklapbare of inkortbare handgrepen kunt u bij ons terecht.

7 - Speciale producten

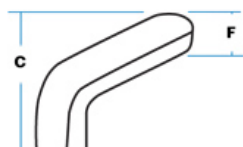
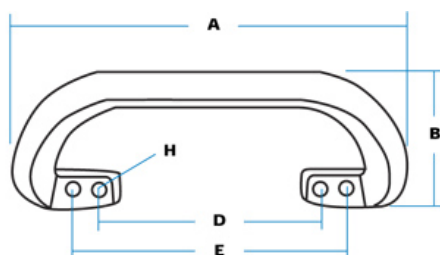
In dit hoofdstuk vindt u o.a. wegklapbare vasthouders, sjorogen of haken voor in- of opbouw om uw deur, luik, klep of lading stevig op zijn plaats te houden. Gefabriceerd van gegalvaniseerd staal, rubber, aluminium of RVS voor zware omstandigheden. Draaiplateau 's voor gemakkelijke toegang tot (bestuurders-) stoelen of machines en opklapbeugels voor stoelen of ook wel klapzitmonturen. Noodstoppen, brandstofdoppen en inspectiedeksels om uw machine of aggregaat te bedienen of onderhouden en robuuste opklapbare bekerhouders in diverse kleuren.



9/01725
Grab rail

ORDERING CODE

9/01725	300mm grab rail-black
9/01725/03	300mm grab rail, yellow, <u>RAL 1021</u>
5/00538/B	spare plugs black
5/00538/03	spare plugs , yellow, <u>RAL 1021</u>



SPECIFICATION

A Body Length	300 mm
B Body Width	102 mm
C Body Height	75 mm
D Hole centres	165 mm
E Hole centres	213 mm
F Cross section	25 mm
H Hole sizes (core)	7 mm
10 mm steel reinforcement core	

Plug diameter 15 mm accepting bolts to 12 mm head diameter x 7 mm shank.
Plug ref. 5/00538 (specify colour)

NOTE: Rigid steel core means that handle cannot be 'flexed' to accommodate deviations in fixing holes

'FOAMED' STEEL-CORED GRAB RAIL 300mm

Moulded in expanded polyurethane foam, this handle has a soft, resilient surface and no sharp edges, while the steel core provides strength and rigidity. This modern design replaces traditional steel stanchion rails, and ensures safety and comfort when used as a grab, or entry-assist rail.

! Soft, padded surface.
No sharp edges, for maximum safety.
Triangular section for good grip.
Mounting holes concealed by 'snap-in' plugs.

🔧 Attractive, textured finish.
Standard colours are black and yellow.
Other colours can be moulded subject to batch-quantity requirements.

🔩 Fixing by bolting through four holes in steel core. Handle cannot be 'flexed'.

M Moulded in expanded polyurethane foam around solid, 10mm steel rod.
Meets EC 95/28/CE regulations for combustibility (less than 100mm per minute)

A This handle is a direct alternative to Happich 930 0000

T **LOAD TESTING:**
Tests carried out by an independent proof house gave following results:
Parallel to fixing, load 3.70 Kilo-Newtons (377Kg) before distortion.
Vertical to fixing, load 3.56 Kilo-Newtons (363Kg) before distortion.
With ultimate strength over 1 tonne we recommend a safe working load of 250Kg (550lbs) max.



9/01226
Grab Rail

ORDERING CODE

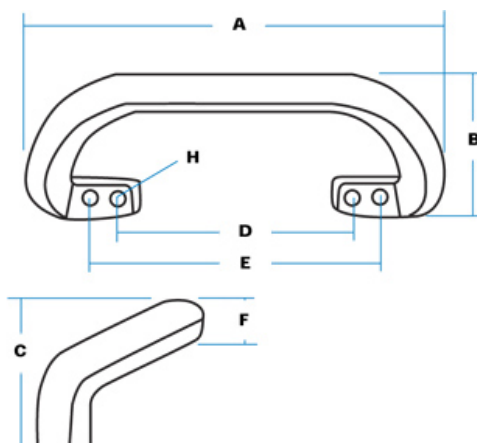
9/01226 475mm grab rail, black

SPECIFICATION

A Body Length	475 mm
B Body Width	90 mm
C Body Height	75 mm
D Hole centres	327 mm
E Hole centres	375 mm
F Cross section	33 mm
H Hole sizes (core)	7 mm
10 mm steel rod reinforcement core	

Plug diameter 15 mm accepting bolts to 12 mm head diameter x 7 mm shank.
Plug ref. 5/00538 (specify colour)

NOTE: Rigid steel core means that handle cannot be 'flexed' to accommodate deviations in fixing holes.



'FOAMED' STEEL-CORED GRAB RAIL 475mm

This model meets the requirement for an entry-assist rail with extended length of grip for use with entry steps on buses and coaches, or for high cabs and trucks. It is made in solid 10mm steel rod to achieve maximum strength without 'flexing'.

! Soft, padded surface.
No sharp edges, for maximum safety.
Triangular section for good grip.
Mounting holes concealed by 'snap-in' plugs.

🔧 Attractive, textured finish.
Standard colour is black. Other colours on request.

🔩 Fixing by bolting through holes in steel core. Handle cannot be 'flexed'.

M Moulded in expanded polyurethane foam around solid, 10mm steel rod.
Meets EC 95/28/CE regulation for combustibility (less than 100mm per minute).

A This handle is a direct alternative to Hapich 930 0001

T **LOAD TESTING:**
Tests carried out by an independent proof house gave following results:
Parallel to fixing, load 3.47 Kilo-Newtons (353Kg) before distortion.
Vertical to fixing, load 3.45 Kilo-Newtons (352Kg) before distortion.
With Ultimate strength over 1 tonne we recommend a safe working load of 250Kg (550lbs) max.



9/01228

Hand-hold in 'forward' mode, suitable for gantries, platforms, high-access doors, as a grab for standing passengers, machine covers and roller-shutters.

ORDERING CODE

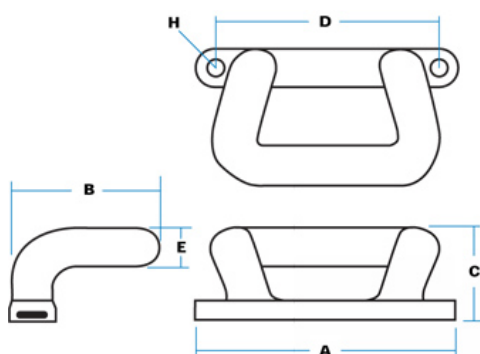
9/01228 Hand-hold, black

SPECIFICATION

A Body Length	175 mm
B Body Width	100 mm
C Body Height	66 mm
D Hole centres	151 mm
E Cross section	25 mm
H Hole sizes (core)	7 mm

10 mm steel rod reinforcement core
Plug diameter 15 mm accepting bolts to 12 mm head diameter x 7 mm shank.

Plug ref. 5/00538 (specify colour)



Hand-hold in reverse-mode: suitable for seat backs, trays and containers, trailers and caravans, marine applications.



'FOAMED' STEEL-CORED 'HAND-HOLD' 150mm

This unique design complements our range of larger "foamed" grab rails, but is suited to more restricted spaces. It makes an ideal alternative to traditional "6-inch" pulls, with textured, resilient surface, great strength, and a shape that lends itself to fixing in several modes as illustrated.

! Resilient, padded surface. No sharp edges, for maximum safety. Triangular section for good grip. Mounting holes concealed by 'snap-in' plugs.

! Attractive, textured finish. Standard colour is black, other colours can be moulded subject to batch-quantity requirements.

! Fixing by bolting through holes in top rail (through steel core).

M Moulded in expanded polyurethane foam around welded steel former (core). Meets EC 95/28/CE regulation for combustibility (less than 100mm per minute).

T **LOAD TESTING:**
The handle was tested to destruction, with the following results:
Parallel to axis fixing, max load 14.84 Kilo-Newtons (1.51 tonnes)
Vertical to fixing, max load 13.77 Kilo-Newtons (1.4 tonnes)
With Ultimate strength over 1 tonne we recommend a safe working load of 500Kg (1100lbs) max.

MOULDED STEEL-CORED HANDLES

Moulded in resilient elastomer around steel cores, these handles have been designed for those applications where great strength is required, but still offering good appearance and 'user-friendly' characteristics.



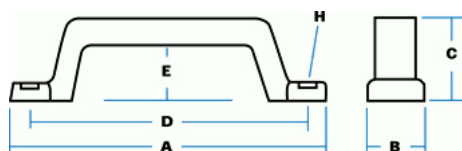
9/00404
(190mm)



9/00405
(280mm)

ORDERING CODE

9/00404 Moulded, steel-cored grab handle 190mm



SPECIFICATION

A Body Length	190 mm
B Body Width	28 mm
C Body Height	50 mm
D Hole centres	157 mm
E Under grip	32 mm
H Hole sizes dia within 15 mm dia recess	8 mm

! Semi-rigid surface, no hard edges, with plugs to conceal fixings.

🔧 Self-colour black with gloss, textured finish.

🔩 Fixing by bolting through holes in steel core.

M Moulded in thermoplastic elastomer around steel core.

A These handles are direct alternatives to Titgemeyer 588-242 and 633-500 and Furgocar 1908 - 10263/64.

T **LOAD TESTING:** Tests carried out by an independent proof house gave following results (at 15°C) before destruction.

Parallel to fixing:

9/00404, max load 19.47KN (1.99 tonnes)

9/00405, max load 12.83KN (1.30 tonnes)

Vertical to fixing:

9/00404, max load 13.67KN (1.39 tonnes)

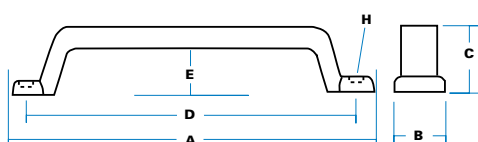
9/00405, max load 12.03KN (1.23 tonnes)

With Ultimate strength over 1 tonne we recommend a safe working load of 500Kg (1100lbs) max.

€ Highly competitive against market alternatives.

ORDERING CODE

9/00405 Moulded, steel-cored grab handle 280mm



SPECIFICATION

A Body Length	280 mm
B Body Width	28 mm
C Body Height	55 mm
D Hole centres	253 mm
E Under grip	37 mm
H Hole sizes dia within 18 mm dia recess	8 mm

After fixing it is recommended that cover plugs are permanently retained with a suitable adhesive.

Textured plugs are available under following references 9/00404-MP00444 (15mm dia).
9/00405-MP00445 (18mm dia).



CONCEALED-FIX MOULDED GRAB HANDLE

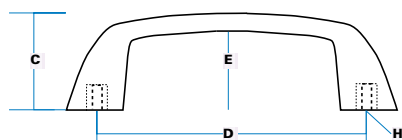
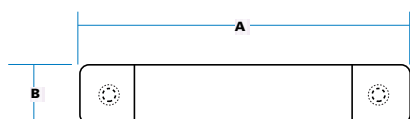
Clean, sharp lines characterise this new addition to our range, intended for surface-mount applications where fixing from inside is desired. The handle contains threaded brass inserts, moulded-in during manufacture, and has a relatively high grip for a gloved hand.



9/01526

ORDERING CODE

9/01526 Concealed-fix handle, black



SPECIFICATION

A Body Length	145 mm
B Body Width	26 mm
C Body Height (max)	43 mm
D Hole centres	117 mm
E Under grip	35 mm
H Hole sizes (depth) with M8 threaded inserts	16 mm



Black, fine textured finish



Moulded in Nylon-6, glass-bead filled and UV stabilised



LOAD TESTING:

Tests carried out by an independent proof house gave following results:-
Parallel to fixing: Max load 5.50KN (616kg) before fracture.

Vertical to fixing: Max load 4.50KN (504kg) before fracture.

With ultimate strength over 500Kg we recommend a safe working load of 200Kg (440lbs) max.

'ECONOMY' GRAB HANDLE

A smart, inexpensive handle with 'plant-on' fixing. It is made in black polypropylene with textured finish, with longitudinal ribbing to lighten weight and increase strength.



LOAD TESTING:

Tests carried out by an independent proof house gave following results.

Parallel to fixing: Max load 3.64 Kilo-Newtons (407kg) before handle pulled away from bolts.

Vertical to fixing: Max load 2.87 Kilo-Newtons (321kg) before handle pulled away from bolts.

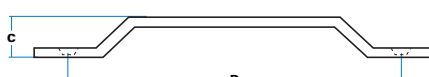
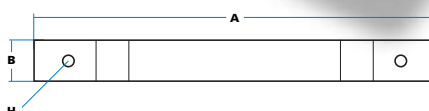
With ultimate strength over 500Kg we recommend a safe working load of 100Kg (220lbs) max.

ORDERING CODE

9/01790 'Economy' grab handle - open fixing

SPECIFICATION

A Body Length	245 mm
B Body Width	25 mm
C Body Height	40 mm
D Hole centres	203 mm
H Hole sizes c/s	7 mm 12 mm



9/01790
'Economy' Grab Handle



1/30357
Grab Handle
(173mm)

9/02357
Grab Handle
(203mm)

SPECIFICATION

A Length (1/30357)	173 mm
A1 Length (9/02357)	203 mm
B Hole centres (1/30357)	140 mm
B1 Hole centres (9/02357)	170 mm
C Width	30 mm
D Height	38 mm
H Hole sizes	5 x 8 mm within recess 10 x 13 mm

ORDERING CODE

1/30357 Grab handle, black, 173mm

9/02357 Grab handle, black, 203mm

PHYSICAL PROPERTIES OF POLYPROPYLENE

Izod\impact strength at 23°C	9.5 kJ/m ²
Embrittlement temperature	-20°C
Heat distortion temperature (4.6kg/cm ²)	95°C
Melting range	165 - 175°C
Burning rate (3 mm) thickness	23mm/minute
UL94 Flammability rating	UL94HB
Resistance to ultraviolet light	After long exposure, some loss of pigment but no detrimental effect on strength

EXTERNAL-FIX GRAB HANDLES with 'snap-shut' trim panels

NOW IN TWO SIZES!

Two useful grab handles, with integral 'snap-shut' panels to conceal fixing holes. Resilient, strong, with no sharp edges, they suit both inside and outside applications, such as vehicle seat-backs, cabinets, carrying-cases, etc.



Strong, lightweight, attractive.



Plant-on fixing, secured with bolts into slotted holes, integral cover panels.



Textured finish, normal colour black. Other colours to special request.



Moulded in polypropylene. See table for physical properties.

Meets EC 95/28CE regulation for combustibility (less than 100mm per minute).



LOAD TESTING: ON 1/30357:

Tests carried out by an independent proof house gave following results (at 15°C).

Parallel to fixing: Max load 3.00 Kilo-Newtons (306kg) before handle pulled away from bolts.

Vertical to fixing: Max load 1.24 Kilo-Newtons (126kg) before handle pulled away from bolts.

With ultimate strength over 300Kg we recommend a safe working load of 100Kg (220lbs) max.



9/00214
(black)

DIECAST GRAB-RAIL 250mm

This model was designed with clean, modern lines in reaction to traditional 'commode' style diecast grab handles with thin sections and curved shapes. It is ideal for use as an entry-assist on rear and side doors of trucks and vans, for compressor and engine covers, and on containerised gen-sets.



Low profile and wide section for good grip, with no sharp corners or edges. Fully plant-on, with semi-concealed fixing holes.



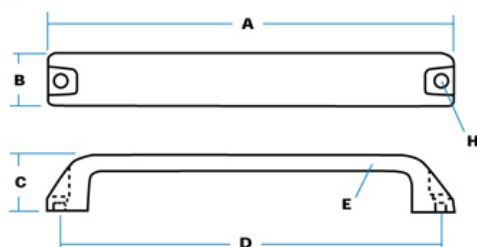
Black powder-coated. Special colours on request, volume permitting.

ORDERING CODE

9/00214	Diecast grab rail-black
9/00224	Diecast grab rail-chrome

SPECIFICATION

A	Body Length	255 mm
B	Body Width	33 mm
C	Body Height	35 mm
D	Hole centres	238 mm
E	Section min (ribbed)	3 mm
H	Hole sizes (diameter)	7 mm, c/s 12 mm



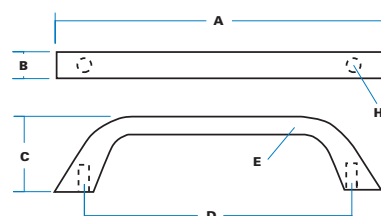
7/10668
(chrome)

ORDERING CODE

7/10668	Grab handle-chrome
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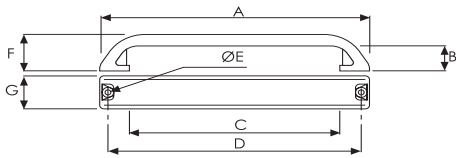
SPECIFICATION

A	Body Length	136mm
B	Body Width	13mm
C	Body Height	32mm
D	Hole centres	114mm
E	Section	8mm
H	Hole sizes (depth) tapped 10-32 UNF	8mm

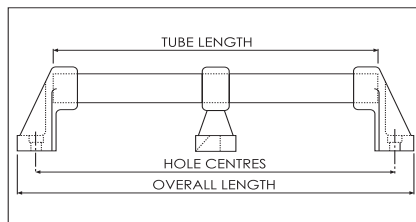


CONCEALED-FIX DIECAST GRAB HANDLE

An attractive handle with 'streamlined' design to avoid sharp corners, with fixing from underneath into two tapped holes. Available in hand polished chromium-plated finish.



	A	B	C	D	E	F	G	H
0856/002					Weight 40g			
METRIC (mm)	254	25.4	204	238	7.0	34.5	32	



N.B. Tubes and stays are supplied separately.

PART NUMBER (TUBE ONLY)	TUBE LENGTH	OVERALL LENGTH	HOLE CENTRES	WEIGHT
9800/4139	266mm	330mm	300mm	190g
9800/4140	366mm	430mm	400mm	260g
9800/4141	466mm	530mm	500mm	330g
9800/4142	566mm	630mm	600mm	400g
9800/4144	666mm	730mm	700mm	470g
9800/4145	766mm	830mm	800mm	540g

		END STAY						
		Black polyamide.						
	A	B	C	D	E	F	G	H
9800/4138					Weight 70g			
METRIC (mm)	80	30	60	46	8	54		

		CENTRE STAY						
		Black polyamide.						
	A	B	C	D	E	F	G	H
9800/4151					Weight 50g			
METRIC (mm)	80	30	60	46	8	34		

HANDLES

Pull handles Black powder coat on die-cast case.

1/20550
Grab Handle

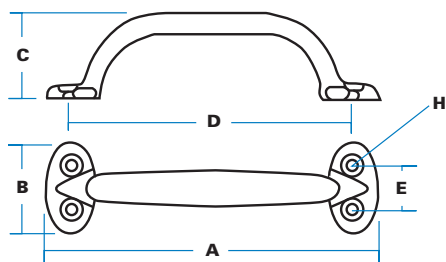


ORDERING CODE

1/20550 'Traditional' grab handle chrome

SPECIFICATION

A Total Length	165 mm
B Width (max)	41 mm
C Height (max)	46 mm
D Hole centres	140 mm
E Hole centres	19 mm
H Hole sizes (diameter)	5mm, c/s 10 mm



'TRADITIONAL' GRAB HANDLE

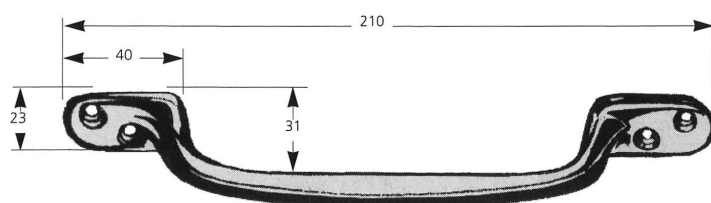
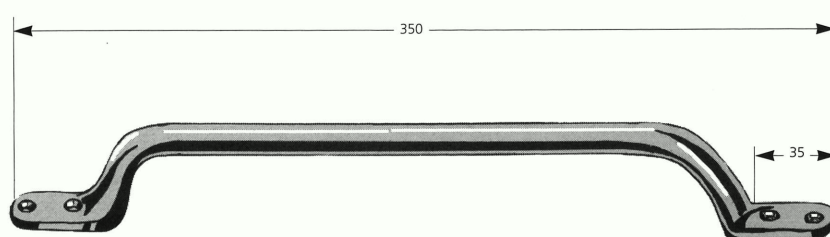
Traditionally-styled handle for plant-on fitting. Hand-polished and chromium plated to a very high standard. Other finishes to special order.

Polished aluminium.

299/35



722



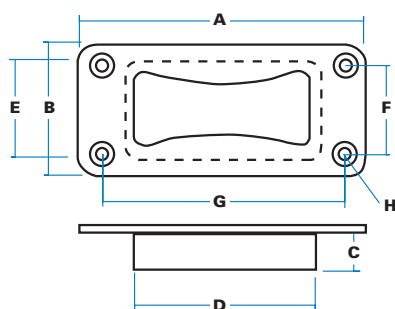


9/01390
Grab Handle

ORDERING CODE

9/01390 Recess grab handle, moulded

9/01391 Recess grab handle, diecast



SPECIFICATION

A Length (outer)	133 mm
B Width (outer)	60 mm
C Depth	21 mm
D Length (inner)	95 mm
E Width (inner)	45 mm
F Hole centres	41 mm
G Hole centres	114 mm
H Hole sizes (diameter)	6 mm, c/s 10 mm

Note: Because of construction detail, there are projections on dimension 'D' to 115 mm on diecast model.

DOUBLE-SIDED FLUSH-FIT GRAB HANDLES

This design is available in both diecast and moulded construction. It is completely flush-fitting and easy to fix into panel aperture. The shaped edges allow easy action with roller shutters and sliding doors. Use the diecast version when handle is used to lift heavy equipment.



Fix through countersunk holes in top plate.



Diecast handle is black powder-coated, moulded handle has textured finish.



Diecast in zinc alloy, or moulded in glass-filled nylon with top and bottom plates ultrasonically welded together.



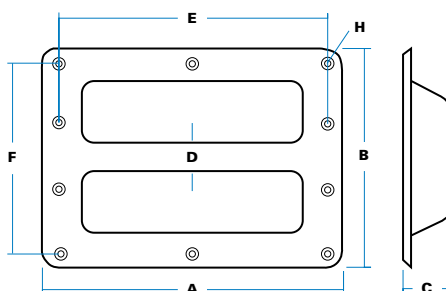
9/01389/01
Grab Handle

ORDERING CODE

9/01389/01 Flush-fit grab handle- black

SPECIFICATION

A Length	230 mm
B Width	170 mm
C Depth	30 mm
D Strap width	22 mm
E Hole centres	203 mm
F Hole centres	153 mm
H Hole sizes (diameter)	5 mm, 10 mm recess



Consult engineering drawing for details of hole positions. Frame in 2 mm galvanised steel.



9/01115
Grab Handle

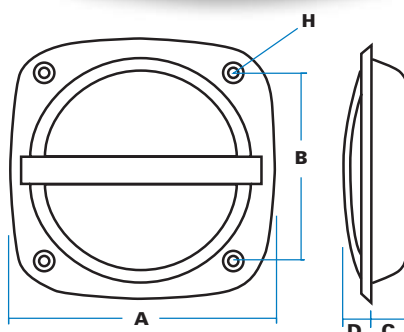
ORDERING CODE

9/01115 Semi-flush handle-black

5/00939 Moulded gasket

SPECIFICATION

A Width	125 mm
B Centres	90 mm
C Depth	16 mm
D Height	10 mm
H Holes (diameter)	5 mm, C/S 9 mm
Inside diameter of pan 105 mm. Edges are embossed	



FLUSH-FIT STEEL GRAB HANDLE

encapsulated in synthetic rubber (TPE)

A fully-recessed grab handle, large enough to receive a gloved hand. The unit is completely corrosion-resistant and shaped to allow run-off of water (spray, etc.). It is suitable for large commercial vehicles and trailers, etc.

! Galvanised steel frame with resilient moulded covering for user-friendly feel.

🔧 Smooth, semi-gloss finish. Standard colour is black.

🔩 Fixing through recessed holes in rim, use stainless steel or plated screws/rivets to avoid corrosion stains.

T **LOAD TESTING:**
Rig testing parallel to fixings achieved loads of over 6.00KN (610Kg) before significant distortion. We recommend a Safe Working Load of 200Kg (440lb)

THERMAL TESTING:
Cycled between +15°C & -30°C without embrittlement. Does not soften below +70°C.

SEMI-FLUSH STEEL HANDLE

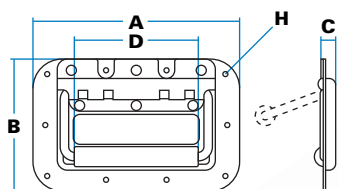
This model uses the same recess pan as our 'T' handle sets, 9/00186 etc, with a 10mm steel 'strap' welded across the recess to provide a strong, neat, semi-flush handle, Black finish, gasket supplied separately



9/01914SS
Recess-mounted handle,
stainless steel

ORDERING CODE

9/01914SS Recess handle, stainless steel



SPECIFICATION

A Plate Length	160 mm
B Pan Width	107 mm
C Pan Depth	6 mm
D Grip Length	110 mm
E Grip Diameter	12 mm
H Hole sizes (dia.)	6 mm

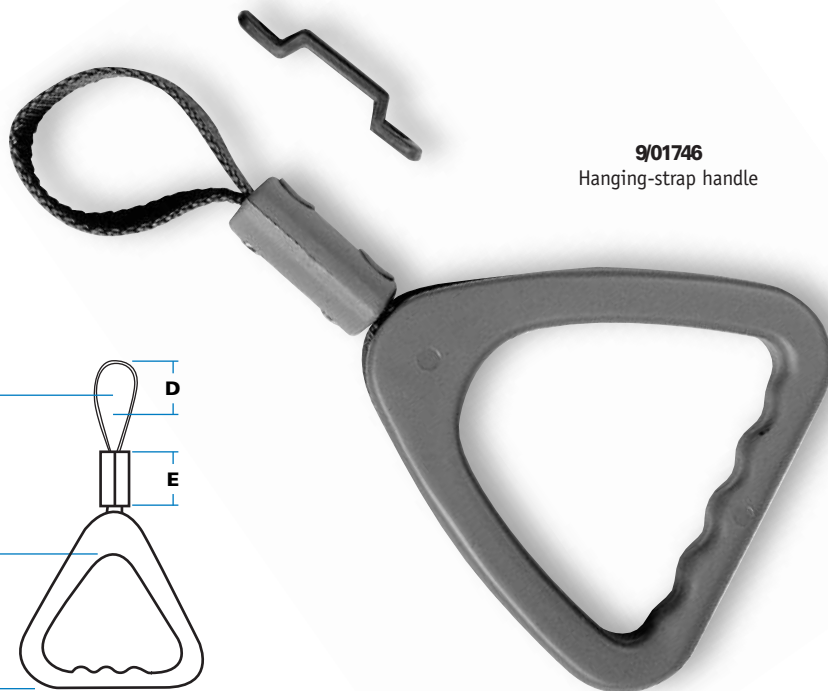
Angle of opening 85°. Consult engineering drawing for position of (10) fixing holes. Panel cut-out dimensions 75mm x 127mm.

LIFT-UP HANDLES - RECESS MOUNTING

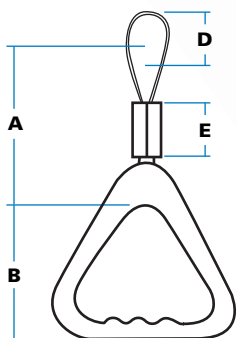
Very useful, plant-on 'chest' handle, with attached backplate and concealed spring which returns to 'rest' position. Stainless steel throughout, with 'grip' in resilient rubber. Also available for surface mounting (without recess plate) to special order.

HANGING- STRAP HANDLE (30mm RAIL)

A well-proven design for coaches and light railcars, this is a solid, moulded handle with comfortable, wide grip and 25 mm woven strap. Normally for 30 mm rail, it can be cut and adjusted to give tight or loose fit, and used on rails up to 50 mm diameter. A moulded 'top-hat' bracket is provided.



9/01746
Hanging-strap handle



SPECIFICATION

A Height to rail centre (max.)	130 mm
B Grip height	100 mm
C Grip width	130 mm
D Max diameter	50 mm
E Sleeve length	50 mm

ORDERING CODE

9/01746 Hanging-strap handle, grey

Note: Strap length can be provided exactly to size for volume contract requirements.



Cut strap to desired size and secure with 2-piece sleeve. Attach bracket on top of rail to prevent sideways movement.



Normal finish is grey, black and other colours to special order.



Handle, brackets and strap moulded in polypropylene, (Burning rate less than 100 mm per minute).



On a test-rig, handle withstood loads of 2.1kN (470lbf). Recommended safe load is 1kN (225lbf).

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Reken op ons.

