



ENCLOSURES

Easy Selection Guide

STANDARD ENCLOSURES



Enclosure – Selection

An industrial enclosure defined is a solution manufactured from a certain material designed to protect your electrical and electronic componentry from hostile environments.

There are a number of factors to consider when determining the right enclosure for your needs which when done correctly will ensure the life of internal componentry and the enclosure itself.

STEP 1: Physical size

step 1

Consider what componentry is being installed and where inside the enclosure. Also ensure there is adequate space for cabling.

This will determine which style of enclosure you will need starting from small terminal boxes, to medium sized wall mount and large floor standing enclosures.

- Terminal boxes start from size H65 x W50 x D45 mm
- Wall mount enclosures start from size H150 x W150 x D110 mm
- Floor standing enclosures start from size H1600 x W600 x D400 mm

STEP 2: IP Rating - Degree of protection required

step 2

The IP rating is defined in AS 60529 (IEC 60529) where upon successful testing an enclosure will be marked with a two digit classification code, which details the extent of resistance to solid objects/ particles and water.

The higher the number the better the resistance against a certain substance.

For example, in reference to IP67...

The first digit which is 6 reflects the enclosures dust and solid objects ingress protection rating... and the second digit which is 7 is the level of protection against water.

Sometimes the letter 'X' is used in place of the first or second digit to indicate that tests have not been made or are not considered relevant.

An additional code that is defined is an enclosures IK rating which reflects the resistance to mechanical impact. The IK rating is also a two digit code but is generally not as important as an IP code.

What level of protection does your equipment require against ingress of solid objects including dust and water?

What type of equipment are you protecting?



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step 3

STEP 3: Environment /Application

The place of installation needs to be considered and the potential threats on the enclosure.

What is the environment the enclosure is going in?

Is the application indoor or outdoor ?

Is the enclosure located in a harsh or chemical washdown environment

This will determine UV light considerations and the need for protection against corrosive substances in the atmosphere such as oils, chemicals, salt or fine dust.

Enclosure performance is dependant on the environment/application as various materials react differently to different situations

Refer to strength/corrosion chart and comparison of enclosure material

step 4

STEP 4: Type of Material

Select the appropriate material for your enclosure based upon the application and environment it is going in.

Each material has its own strengths/weaknesses and there are a number to choose from:

- Acrylonitrile butadiene styrene (ABS)
- Polycarbonate (PC)
- Glass fibre reinforced polyester (GRP)
- Aluminium (AL)
- Powder coated mild steel
- 316 Grade stainless steel (SS)

ABS and PC enclosures are typically an economical solution due to their material characteristic, whilst GRP and Aluminium are regarded as having good impact and corrosion resistance, and of course steel variants having excellent strength with stainless steel having the highest corrosion resistance.

Refer to strength/corrosion chart and comparison of enclosure material

step 5

STEP 5: Customisation and Accessories

What accessories are required for the enclosure to suit the application ?

Does your enclosure need any further modifications before installation?

Are special gland plates required ?

Whether you have a terminal box, wall mount enclosure or floor standing cabinet, at NHP we have a large range of accessories available to complement your enclosure solution ranging from mounting plates, DIN rail, rain hoods, mounting brackets, escutcheons, inner doors, locks, plinths, lights, mounting profiles and glazed doors to list a few.

Furthermore, we can provide a range of added services that include the ability to customise your enclosure to your specification through our Milling solution. This state of the art Computer Numerical Control (CNC) machining system can perform milling as well as engraving and cutting to any specification in the x-y-z plane to the highest precision, ensuring your demands are met.

Perfect for pushbuttons, indicators or cable entries.

Refer to Accessories

Comparison of enclosure material

The performance and limitations of an enclosure are dependent on the material it is made of, where the following gives an indication of benefits and drawbacks between the various materials on offer.

Acrylonitrile butadiene styrene (ABS)



Benefits:

- Easy machining with normal tools
- Easy colouring through pigmentation
- Low weight
- Good resistance to chemical attack
- Excellent insulating properties

Drawbacks:

- Slightly lower impact resistance and operating temperature range compared with PC
- Slightly lower UV resistance compared with PC.
- Not available in transparent form
- No EMC shielding

Polycarbonate (PC)



Benefits:

- Very high impact resistance
- Easy machining with normal tools
- High IP rating
- Wide operating temperature range
- Self-extinguishing
- Good resistance to chemical attack
- Light weight
- Good UV resistance
- Excellent insulating properties
- Cost-effective material for harsh environments

Drawbacks:

- No EMC shielding

Glass fibre reinforced polyester (GRP)



Benefits:

- Excellent record of resistance to corrosion and chemical attack
- High impact resistance
- Rigid construction
- High weather resistance
- Wide operating temperature range
- Fire resistant
- Good insulating properties

Drawbacks:

- More expensive than PC
- Cannot be machined using standard tools
- No EMC shielding
- Heavier than other plastic enclosures

Aluminium (AL)



Benefits:

- Good resistance to chemical attack (painted)
- High impact resistance
- Wide operating temperature range
- Easy earthing
- EMC shielding. Note: to some extent already a standard enclosures
- Good heat sink properties
- Rigid construction

Drawbacks:

- More expensive than PC
- Heavier than PC and ABS
- Machining with special tools only

Mild steel



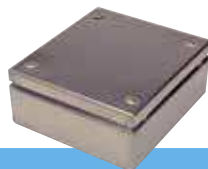
Benefits:

- Good resistance to chemical attack (powder coated RAL7035)
- High impact resistance
- Wide operating temperature range
- Easy earthing
- EMC shielding. Note: to some extent already as standard enclosures
- Strong and flexible

Drawbacks:

- More expensive than PC
- Heavier than PC and ABS
- Prone to corrosion
- Machining with special tools only

316 Stainless steel (SS)



Benefits:

- Good resistance to chemical attack and corrosion
- High impact resistance
- Wide operating temperature range
- Easy earthing
- High weather resistance
- Hygienic and aesthetic appearance
- EMC shielding. Note: to some extent already as standard enclosures
- Good heat sink properties
- Rigid construction

Drawbacks:

- More expensive than PC, Mild Steel
- Heavier than PC and ABS
- Difficult to fabricate
- Machining with special tools only

Material performance overview

The following table gives a comparative view and chemical resistance of the various enclosure materials.

	Acrylonitrile butadiene styrene (ABS)	Polycarbonate (PC)	Glass fibre reinforced polyester (GRP)	Aluminium (AL)	Powder Coated Mild Steel	316 Grade Stainless Steel (SS)
Outdoor use	●	● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ● ●
Indoor use	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ●
Cost	● ● ● ● ●	● ● ●	● ●	● ●	● ● ●	●
Light weight	● ● ● ● ●	● ● ● ● ●	● ● ●	● ●	●	●
High rigidity	●	● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ● ●
Impact Resistance	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ●
CHEMICAL RESISTANCE						
Salt Water environments	● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ●	● ●	● ● ● ● ●
Neutral salts	● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ●	● ●	● ● ● ● ●
Acids, low concentrations	● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ●	● ● ●	● ● ● ● ●
Acids, high concentrations	●	● ● ●	● ● ●	●	●	● ● ●
Alkalis, low concentrations	● ● ● ● ●	● ● ●	● ● ● ●	●	● ● ● ● ●	● ● ● ● ●
Alkalis, high concentrations	● ● ● ●	●	● ● ● ●	●	● ● ● ●	● ● ● ●
Petroleum	●	● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
Hydraulic oil	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ● ●
Alcohols	● ● ●	● ● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
Solvents	●	●	● ● ● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ● ●
Cooling fluids	● ● ● ● ●	● ● ●	● ● ● ● ●	● ● ●	● ● ●	● ● ● ● ●

● = Poor

● ● ● ● ● = Excellent

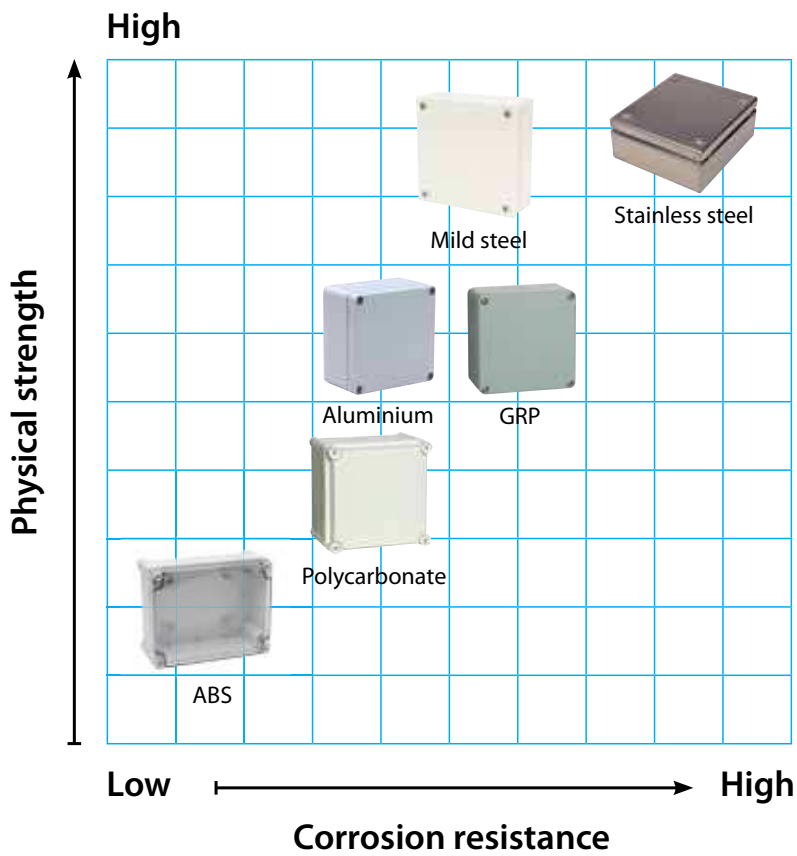
Data subject to change without notice.

The table is only to be used as a guide and environmental conditions must be taken into account when selecting your enclosure material.

Strength/corrosion resistance chart

Each material has its own strengths/weaknesses and whilst some materials offer excellent corrosion resistance, they may not offer the physical strength. This chart gives a visual comparison between the enclosure materials.

Strength/corrosion resistance of enclosure materials



Enclosure quick order matrix

NHP offers a wide range of enclosures varying in size from terminal boxes /compact industrial enclosures to wall mount and floor standing solutions.

Different materials are available to best fit the desired application.

Find the enclosure you need quickly and simply by choosing a type and material

	POLYCARBONATE (PC)	ACRYLONITRILE BUTADIENE STYRENE (ABS)
<p>Terminal Boxes / Industrial Enclosures</p> <p>Page 10-13</p>	 <p><i>MNX Series</i> <i>Piccolo Series</i></p> <p><i>Euronord Series</i> <i>Solid Series</i></p> <p><i>EK Series</i> <i>Cardmaster Series</i></p>	 <p><i>N-Line Series</i></p>
<p>Wall Mount</p> <p>Page 14-17</p>	 <p><i>CAB Series</i></p>	 <p><i>CAB Series</i></p>
<p>Floor Standing</p> <p>Page 18-21</p>		

ALUMINIUM (AL)	GLASS FIBRE REINFORCED POLYESTER (GRP)	MILD STEEL	STAINLESS STEEL (SS)
 <p><i>Euronord Series</i></p>	 <p><i>Euronord Series</i></p>	 <p><i>STB Series</i></p>	 <p><i>ESA Series</i></p>
 <p><i>CAB Series</i></p>		 <p><i>MAD Series</i></p>  <p><i>MAP Series</i></p>  <p><i>N-Line Series</i></p>	 <p><i>D93 Series</i></p>  <p><i>Sloped D93 Series</i></p>
		 <p><i>MKS Series</i></p>  <p><i>MKD Series</i></p>  <p><i>MCS Series</i></p>  <p><i>MCD Series</i></p>  <p><i>MCM Series</i></p>  <p><i>MPG Series</i></p>	 <p><i>EKSS Series</i></p>  <p><i>EKDS Series</i></p>  <p><i>MCSS Series</i></p>  <p><i>MCDS Series</i></p>

Terminal boxes – Selection



Thermoplastic - N-Line Series

- Nine sizes (starting from H95 x W65 x D60, up to H344 x W289 x W117)
- Grey base RAL7035 with grey or transparent cover
- IP 65 and IK07 protection
- Halogen free and RoHS compliant
- Cover screws - wire seal compatible
- Plain cover for printing, stickers and switches

Dimensions H x W x D (mm)	Plastic Enclosure		Mounting Plate (Steel)	DIN Rail	
	With Grey Cover	With Transparent Cover		Fixed Horizontally ¹⁾	Fixed Vertically ²⁾
95 x 65 x 60	NLP090706	NLP090706T	MP0907	-	-
110 x 110 x 65	NLP111107	NLP111107T	MP1111	-	-
130 x 95 x 65	NLP131007	NLP131007T	MP1310	-	-
130 x 130 x 75	NLP131308	NLP131308T	MP1313	-	-
187 x 122 x 90	NLP191209	NLP191209T	MP1912	MIV10	D140
201 x 163 x 98	NLP201610	NLP201610T	MP2016	D140	ARH2320
240 x 191 107	NLP241911	NLP241911T	MP2419	EKV12	DR210
289 x 239 x 107	NLP292411	NLP292411T	MP2924	DR215	DR265
344 x 289 x 117	NLP342911	NLP342911T	MP3429	ARH2328	DR316

¹⁾ DIN rail to suit width of enclosure
²⁾ DIN rail to suit height of enclosure



Polycarbonate - Fibox Solid Series

- Size H190 x W190 x D130 to H560 x W380 x D180
- Halogen free
- IP 66/67
- Impact resistance IK 08
- Colour grey RAL 7035
- Total insulation
- Smooth sided base
- Transparent or grey cover

Dimensions (mm)				Enclosure		Mounting plate to suit		External Hinges	Wall mounting brackets
H	W	D	Base depth	With grey cover	With transparent cover	Steel	Insulated		
190	190	130	100	PC191913G	PC191913T	EKHVT	EKHVTP	MB10622S	MB10674
190	280	180	100	PC281918G	PC281918T	EKJVT	EKJVTP	MB10622S	MB10674
280	380	180	100	PC382818G	PC382818T	EKPVT	EKPVTP	MB10622S	MB10674

For complete range refer to Part A catalogue, Section 11 - 7



GRP - Fibox Euronord Series

- Size H75 x W80 x D55 to H250 x W402 x D120
- IP 66/67
- Impact resistant IK 08
- Rigid construction
- Excellent resistance to corrosion and chemical attack
- Stainless steel screws
- Good insulating properties
- Colour RAL 7001
- Light weight

Dimensions			Enclosure with grey cover	Mounting plate to suit (steel)	External hinges
H	W	D			
122	120	90	P121209	AM1212	AHA
260	160	92	P162609	PM1626	AHA
402	250	120	P254012	PM2540	AHA

For complete range refer to Part A catalogue, Section 11 - 25

Accessories

Thermoplastic - N-Line Series

Mounting plate



Pre-cut DIN rail



Polycarbonate - Fibox Solid Series

Mounting plate
(steel or insulated)



Hinged cover



Extension frame



Cover screws



Inspection window



GRP - Fibox Euronord Series

Mounting plate
(steel or insulated)



External hinges



Terminal boxes – Selection



Aluminium - Fibox Euronord Series

- Size H66 x W60 x D46 to H600 x W310 x D180
- IP 66/67 (IP 68 ALN Series)
- Impact resistant IK 08
- Captive stainless steel cover screws
- Colour RAL 7001
- Lighter than steel enclosures
- Rigid construction
- Good heat-sink properties
- Good resistance to chemical attack

Dimensions			Enclosure with grey cover	Mounting plate to suit (steel)	External hinges
H	W	D			
81	77	57	ALN080806	AM0808	N/A
222	125	81	ALN122208	PM1222	AHA
330	230	110	ALN233311	PM2333	AHA

For complete range refer to Part A catalogue, Section 11 -26

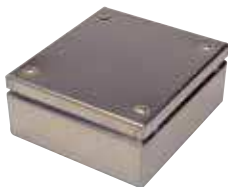


Mild Steel - Eldon STB Series

- Size H150 x W150 x D80 to H400 x W400 x D120
- 1.2 mm mild steel
- IP 66
- Impact resistant IK 10
- Colour grey RAL 7035 powder coated
- Body is folded and seam welded with holes for wall mounting
- PUR gasket
- Stainless steel captive cover screws
- Earthing studs M8 x 12 in body and cover

Dimensions (mm)			Enclosure	Mounting plate to suit (steel)	DIN profiles to suit (steel)	External hinges	Wall mounting brackets
H	W	D					
150	150	80	STB151508	BMP1515	BPP15	STBHO2	AW41
200	300	120	STB203012	BMP2030	BPP20	STBHO2	AW41
300	400	120	STB304012	BMP3040	BPP30	STBHO2	AW41

For complete range refer to Part A catalogue, Section 11 -27



Stainless Steel - Zanardo ESA Series

- Size H150 x W180 x D80 to H400 x W400 x D120
- IP 66
- IK 10
- 1.5 mm 316 grade stainless steel
- Folded and seam welded with holes for wall mounting
- Stainless steel captive cover screws
- Equipment profiles for mounting plate or DIN rail

Dimensions			Enclosure	Mounting plate to suit (steel)	Wall mounting brackets
H	W	D			
150	180	80	ES1A	ES1P	AG1A
200	200	120	ES22A	ES21P	AG1A
200	300	120	ES3A	ES3P	AG1A

For complete range refer to Part A catalogue, Section 11 -28

Accessories

Aluminium Fibox Euronord Series

Mounting plate
(steel)



Cover hinges



Mild steel - Eldon STB Series

Mounting plate
(steel)



Cover hinges



DIN profiles



Wall mounting brackets



Stainless steel - Zanardo ESA Series

Mounting plate
(steel)



Wall mounting brackets



Wall mount enclosures – Selection



MILD STEEL - N-Line Series

- RAL 7035 grey powder coating
- IP 66 and IK10 protection
- 2 mm galvanised steel mounting plate
- Gland plate included
- Quarter turn double-bit 3 mm insulated lock and key (black)
- Earth studs on body and door
- Reversible door

Dimensions (mm)			Enclosure	Wall Mounting Brackets
H	W	D		
200	200	155	NLS0202015	AW41
300	250	155	NLS0302515	AW41
300	300	210	NLS0303021	AW41
400	300	210	NLS0403021	AW41
400	400	210	NLS0404021	AW41
500	400	210	NLS0504021	AW41
500	500	210	NLS0505021	AW41
600	400	210	NLS0604021	AW41
600	400	300	NLS0604030	AW41
600	600	210	NLS0606021	AW41
600	600	300	NLS0606030	AW41
800	600	210	NLS0806021	AW41
800	600	300	NLS0806030	AW41
1000	800	300	NLS1008030	AW41



ABS - Fibox CAB Series

- Size H150 x W150 x D110 to H600 x W400 x D220
- Halogen free
- IP 65
- Impact resistant IK 08
- Totally insulated
- Colour grey RAL 7035
- Transparent or grey hinged cover options
- Latch or DIN 3 mm lock

Dimensions (mm)			Enclosure		Mounting plate to suit (steel)	DIN rail to suit	Wall mounting brackets
H	W	D	With grey cover	With transparent cover			
150	150	110	CABABS151511G	CABABS151511T	EKIV15	N/A	FP12017
300	200	180	CABABS302018 G3B	CABABS302018T3B	EKIV23	N/A	FP12017
500	400	200	CABABS504020G3B	CABABS504020T3B	EKIV54	EKIV37	FP12017

For complete range refer to Part A catalogue, Section 11 -30



Polycarbonate - Fibox CAB Series

- Size H150 x W150 x D110 to H600 x W400 x D220
- Halogen free
- IP 65
- Impact resistant IK 08
- Totally insulated
- Colour grey RAL 7035
- Transparent or grey hinged cover options
- Latch or DIN 3 mm lock

Dimensions (mm)			Enclosure		Mounting plate to suit (steel)	DIN rail to suit	Wall mounting brackets
H	W	D	With grey cover	With transparent cover			
300	200	180	CABPC302018G3B	CABPC302018T3B	EKIV23	N/A	FP12017
300	300	180	CABPC303018G3B	CABPC303018T3B	EKIV33	EKIV27	FP12017
400	300	180	CABPC403018G3B	CABPC403018T3B	EKIV43	EKIV27	FP12017

Accessories

Mild Steel - N-Line Series

Mounting plate (steel)



Modular chassis



Rain hoods



Inner doors



Wall mounting brackets



Key and lock combinations



Depth adjustment kit



ABS - Fibox CAB Series

Mounting plate (steel)



Pre-cut DIN 35 mounting rail



Aluminium front plate



Aluminium inner door



Wall mounting brackets



Polycarbonate - Fibox CAB Series

Mounting plate (steel)



DIN modular frame & escutcheon



Aluminium front plate



Aluminium inner door



Wall mounting brackets



Wall mount enclosures – Selection



GRP - Fibox CAB Series

- Size H315 x W215 x D170 to H1035 x W835 x D300
- IP 65 (except CAB 302017 IP 66)
- Impact resistant IK 10
- Totally insulated
- Colour grey RAL 7035
- One piece body = improved mechanical resistance
- Flame resistant: UL 94 V-O
- DIN 3 mm lock

Dimensions (mm)			Enclosure with grey cover	Mounting plate to suit		Wall mounting bracket to suit		DIN modular mounting frame to suit	DIN modular front plate
H	W	D		Steel	Insulated	Steel	Polyamide		
415	315	170	CAB403017	MP4030	MP4030 P	MFCAB	TFCAB	MF4030	FP40302X12
615	415	230	CAB604023	MP6040	MP6040 P	MFCAB	TFCAB	MF6040	FP60403X18
735	535	270	CAB705027	MP7050	MP7050 P	MFCAB	TFCAB	MF7050	FP70504X22

For complete range refer to Part A catalogue, Section 11 -31



Mild Steel - Eldon MAD (Double door) Series

- Double Door: Size H600 x W800 x D300 to H1400 x W1000 x D300
- IP 55 Double door
- Impact resistant IK 10
- RAL 7035 powder coated
- Folded and seam welded
- Concealed hinges, providing 130° opening and clean smooth lines
- 3 mm DIN locks - 3 piont locking
- One piece polyurethane seal
- Gland plate openings
- Galvanised steel mounting plate

Dimensions (mm)			No. of gland plates	No. of locks	Weight (kg)	Standard enclosure with mounting plate and lock	Wall mount brackets to suit
H	W	D					
1200	1000	300	2	1	74	MAD1201030R5	AW41
1200	1200	300	2	1	86	MAD1201230R5	AW41

For complete range refer to Part A catalogue, Section 11 -37



Stainless Steel - Zanardo D93 (Standard)/D93SR (Sloping roof) Series

- Standard: Size H300 x W200 x D150 to H1400 x W800 x D400
- Sloping roof: Size H480 x W200 x D184 to H1090 x W600 x D320
- IP 66 / IK 10
- 1.5 mm 316 stainless steel
- Folded and seam welded
- Concealed hinges providing 120° opening
- Polyurethane one piece gasket provides a continuous seal
- Zinc plated mounting plate
- Stainless steel 3 mm DIN lock
- Sloping roof: 20 mm overhang and 38° sloped roof
- Glazed door and/or gland plate entries in various materials available upon request

Outside Dimensions (mm)				No. of locks	Standard enclosure with mounting plate and lock
H	H	W	D		
600	400	300	200	1	D403020SR
837	600	400	250	2	D604025SR

Dimensions (mm)			No. of locks	Weight (kg)	Standard enclosure with mounting plate & lock	Wall mount brackets to suit (stainless steel)	Inner door to suit (mild steel)	Rain hoods to suit (stainless steel)
H	W	D						
400	400	200	1	10.5	D404020	AG1A	ID4040	RH4020
600	600	300	2	28.5	D606030	AG1A	-	RH6030
800	600	300	2	32.5	D806030	AG1A	ID8060	RH6030

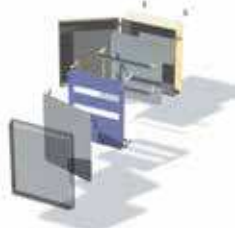
Accessories

GRP - Fibox CAB Series

Mounting plate
(steel or insulated)



DIN modular frame & escutcheon



Aluminium front plate



Aluminium inner door



Wall mounting brackets



Mild steel - Eldon MAD (Double door) Series

Rain hoods



Gland plates



Plinths



Key and lock combinations



Stainless steel - Zanardo D93 (Standard)/D93R (Sloping roof) Series

Rain hoods



Inner doors



Wall mounting brackets



Locks



Ventilation plates



Floor standing enclosures – Selection



Mild steel - Eldon Compact MKS (Single door)/MKD (Double door) Series

- Single Door: Size H1600 x W600 x D400 to H2000 x W1000 x D400
- Double Door: Size H1600 x W1200 x D400 to H2000 x W1600 x D400
- IP 56/55 (Single/Double door)
- RAL 7035 powder coated
- Four times folded and seam welded frame
- Removable roof panels
- 4 point locking system with 3 mm DIN lock
- Fully formed
- Adjustable mounting plate

Outside Dimensions (mm)			Weight (kg)	Standard enclosure	Plinth front and rear panels to suit (100 mm high)	Plinth side panels to suit (100 mm high)
H	W	D				
1800	800	400	123	MKS18084R5	PF1080	PS1040
1800	1000	400	142	MKS18104R5	PF1100	PS1040
1800	1200	400	175	MKD18124R5	PF1120	PS1040
2000	1200	400	195	MKD20124R5	PF1120	PS1040

For complete range refer to Part A catalogue, Section 11 - 51-53



Mild steel - Eldon Bayable MCS (Single door)/MCD (Double door) Series

- Single Door: Size H1800 x W600 x D400 to H2000 x W1000 x D800
- Double Door: Size H1800 x W1200 x D400 to H2000 x W1200 x D800
- IP 56/55 (Single/Double door)
- RAL 7035 powder coated
- Seam welded reversed open profiles
- Doors can be mounted for left or right openings
- Removable roof panels
- 4 point locking system with 3 mm DIN lock
- Adjustable mounting plate
- Side panels sold separately
- Modular Design
- Ideal when buying or combining cabinets

Outside Dimensions (mm)			Weight (kg)	Standard enclosure	Side panels to suit (set of two)	Plinth front and rear panels to suit (100 mm high)	Plinth side panels to suit (100 mm high)
H	W	D					
1800	800	400	113	MCS18084R5	SPM1804R5	PF1080	PS1040
2000	800	500	127	MCS20085R5	SPM2005R5	PF1080	PS1050
2000	600	600	107	MCS20066R5	SPM2006R5	PF1060	PS1060
1800	1200	400	173	MCD18124R5	SPM1804R5	PF1120	PS1040
2000	1200	800	185	MCD20124R5	SPM2004R5	PF1120	PS1040

For complete range refer to Part A catalogue, Section 11 - 55-58



Mild steel - Eldon MCM Series

- Size H1600 x W600 x D600 to H1600 x W600 x D800
- IP 44
- RAL 7035 powder coated
- Frame is seam welded reversed open profile with 25 mm integrated hole pattern
- Front and rear door is surface mounted with concealed hinges
- Keyboard tray hinged and painted two tone grey/brown
- 2 or 4 point locking system with standard 3 mm DIN lock
- Monitor and keyboard tray fitted with key lock
- Roof and side panels are removable

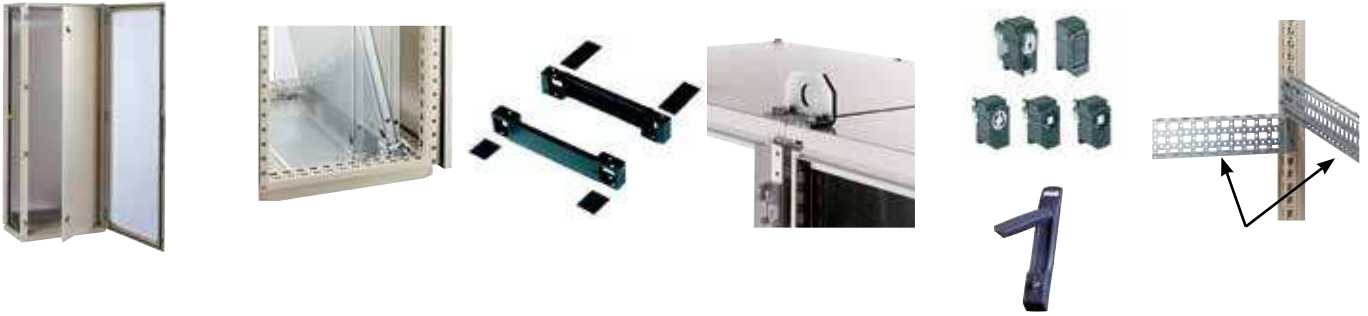
Outside Dimensions (mm)			For monitor size	Weight (kg)	Standard enclosure	Plinth front and rear panels to suit (100 mm high)	Plinth side panels to suit (100 mm high)
H	W	D					
1600	600	600	14" - 17"	110	MCM16066	PF1060	PS1060
1600	600	800	19" - 21"	120	MCM16068	PF1060	PS1080

For complete range refer to Part A catalogue, Section 11 - 63

Accessories

Mild steel - Eldon Compact MKS (Single)/MKD (Double door) Series

Glazed & inner doors Mounting plates Plinths Lifting device Swing handles and inserts Click-in profiles



Mild steel - Eldon Bayable MCS (Single)/MCD (Double door) Series

Glazed & inner doors Mounting plates Lifting / combining brackets Enclosure lights Swing handles and inserts Side panels



Mild steel - Eldon MCM Series

Plinths



Floor standing enclosures – Selection



Mild steel - Eldon MPG Series

- Size H985 x W600 x D400 to H985 x W1200 x D400
- IP 66/ 55 (single/double door)
- RAL 7035 powder coated
- Concealed hinges on top edge provide 80° opening
- DIN 3 mm locks. 2 for top panel and 2 for front door
- Bottom opening for cable access
- Roof panel is a single folded surface angled 12° from horizontal
- Adjustable mounting plate in steps of 12.5 mm
- Removable rear panel and front door

Outside Dimensions (mm)			Usable depth (mm)	Weight (kg)	Complete console with mounting plate and lock	Plinth front and rear panels (100 mm high)	Plinth side panels to suit (100 mm high)
H	W	D					
985	800	400	333	70	MPG08R5	PF1080	PST1040
985	1000	400	333	81	MPG10R5	PF1100	PST1040

For complete range refer to Part A catalogue, Section 11 - 61



Stainless Steel - Eldon Compact EKSS (Single door)/EKDS (Double door)

- Single Door: Size H1800 x W600 x D400 to H2000 x W1000 x D400
- Double Door: Size H1800 x W1200 x D400 to H2000 x W1600 x D400
- IP 66 / IK 10
- AISI 316L pre-grained stainless steel
- One piece body with integrated depth profiles
- Removable rear panels
- 4 point locking system with chrome plated 3 mm DIN lock
- Adjustable mounting plate

Outside Dimensions (mm)			Weight (kg)	Standard enclosure	Plinth front and rear panels to suit (100 mm high 316L stainless steel)	Plinth side panels to suit (100 mm high 316L stainless steel)
H	W	D				
1800	600	400	90	EKSS18064316	PFS1060316	PSS1040316
2000	800	400	119.3	EKSS20084316	PFS1080316	PSS1040316
1800	1200	400	152	EKDS181244X316	PFS1120316	PSS1040316
1800	1600	400	198	EKDS181644X316	PFS1080316 (x 2)	PSS1050316

For complete range refer to Part A catalogue, Section 11 -65-67



Stainless Steel - Eldon Bayable MCSS (Single door)/MCDS (Double door) Series

- Single Door: Size H1800 x W600 x D500 to H2000 x W1000 x D600
- Double Door: Size H1800 x W1000 x D500 to H2000 x W1200 x D600
- IP 56/55 (Single/Double door)
- IK 10
- Seam welded reversed open profiles with integrated depth profiles
- AISI 316L pre-grained stainless steel
- Doors can be mounted for left or right openings
- Removable roof panels
- 4 point locking system with chrome plated 3 mm DIN lock
- Side walls sold separately
- Adjustable mounting plate

Outside Dimensions (mm)			Weight (kg)	Standard enclosure	Side panels to suit (set of two, 316L stainless steel)	Plinth front and rear panels to suit (100 mm high, 316L stainless steel)	Plinth side panels to suit (100 mm high, 316L stainless steel)
H	W	D					
1800	800	500	117	MCSS18085316	SPMS1805316	PFS1080316	PSS1050316
2000	800	600	131	MCSS20086316	SPMS2006316	PFS1080316	PSS1060316
1800	1200	500	178	MCDS18125316	SPMS1805316	PFS1120316	PSS1050316
2000	1200	600	196	MCDS20125316	SPMS2006316	PFS1120316	PSS1060316

For complete range refer to Part A catalogue, Section 11 -69-71

Accessories

Mild steel - Eldon MPG Series

Plinths

Mounting plate
Adjustment brackets



Stainless steel - Eldon Compact EKSS (Single door)/EKDS (Double door) Series

Glazed & inner doors

Mounting plates,
Adjustment brackets

Plinths

Rain hoods

Swing handles and inserts

Enclosure lights



Stainless steel - Eldon Bayable MCSS (Single door)/MCDS (Double door) Series

Glazed & inner doors

Mounting plates,
Adjustment brackets

Combining brackets

Lifting device

Swing handles and inserts

Side panels



Example

A contractor requires a plastic enclosure to house terminal blocks with a minimum rating of IP 65. The size should be approximately H180 x W130 x D85 mm. This is all the information he has given and at this point and you have two choices that fit the requirement as shown below:

Terminal Box – N-Line NLP Series ABS - IP 65



Ordering Details:

Dimensions (mm)			Plastic Enclosure		Mounting Plate (Steel)	DIN Rail to suit	
H	W	D	With grey cover	With transparent cover		Fixed horizontally	Fixed vertically
110	110	65	NLP111107	NLP111107T	MP1111	-	-
130	95	65	NLP131007	NLP131007T	MP1310	-	-
130	130	75	NLP131308	NLP131308T	MP1313	-	-
187	122	90	NLP191209	NLP191209T	MP1912	MIV10	D140
201	163	98	NLP201610	NLP201610T	MP2016	D140	ARH2320
240	191	107	NLP241911	NLP241911T	MP2419	EKV12	DR210

Further questions you would need to ask are:

- Is the application intended for indoors?
- Would you prefer a grey or transparent cover?
- Do you also require pre-cut DIN rail fixed horizontally or vertically in the enclosure or a mounting plate to suit?

They reply with indoor application, grey cover and a DIN rail to suit the width of the terminal box (fixed horizontally).

The recommendation for selection would be the **NLP191209** and **MIV10**, since this grey plastic enclosure size is closest to the requirement and suited to indoors where there is minimal exposure to UV light.

Dimensions (mm)			Plastic Enclosure		Mounting Plate (Steel)	DIN Rail to suit	
H	W	D	With grey cover	With transparent cover		Fixed horizontally ¹⁾	Fixed vertically ²⁾
187	122	90	NLP191209	NLP191209T	MP1912	MIV10	D140

¹⁾ DIN rail to suit width of enclosure

²⁾ DIN rail to suit height of enclosure



Industrial enclosure customisation

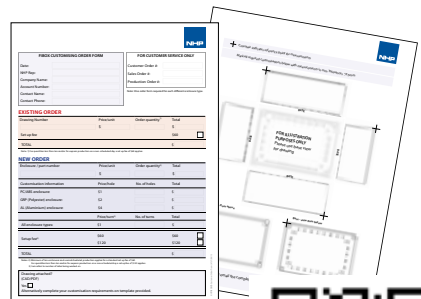
NHP can also provide customisation of industrial enclosure to suit your specification. Through our state of the art Computer Numerical Control (CNC) machining system, we can perform milling as well as engraving and cutting to any specification in the x-y-z plane to the highest precision, ensuring your demands are met.

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- Quick turnaround with high repeatability including threaded and unthreaded holes, cable entries, cut-outs on any side of the enclosure
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 - Polyester (GRP)
 - Aluminium (AL)
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Industrial enclosure customisation order form



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