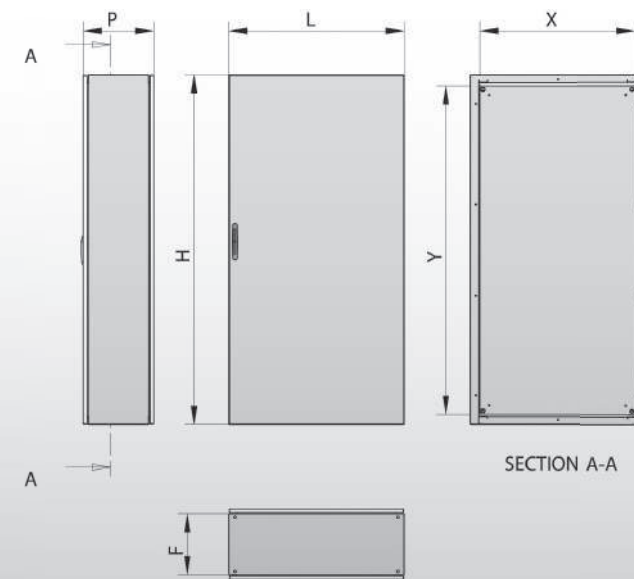




ENCLOSURES SERIES AF

Series AF monoblock enclosures – IP55

Description: the enclosures series AF have welded monoblock frame, rear removable panels in steel sheet thick 2.0 mm, doors in steel sheet thick 2.0 mm with inner stiffening frame, and mounting plates in galvanised steel thick 2.5 mm. Along the inner periphery on the structure there are slots on regular pattern. The enclosures are supplied with cable entry flanges. Painting is powder coating type, epoxypolyester RAL 7035 textured.

The series AF is available in the following versions:

AFB - enclosures with blind door and rear panel screwed, mounting plate

AFV - enclosure with external glazed door and inner blind door, rear panel screwed, mounting plate

AFD - enclosure with glazed external door and inner modular frame

Painting: epoxy-polyester powder coating paints

- panels: RAL 7035 textured
- plinth: RAL 7024 smooth (graphite grey)

Protection degree:

- IP55, IEC 62208 ; CEI EN 62262
- IK10, IEC 62208 ; CEI EN 62262
- Nema type 1-12: CSA22.2,941 e 942, UL508a

General technical features:

- thickness panels 15/10
- thickness door 20/10
- thickness mounting plate 25/10

Certifications:



Notes: for more technical details of AF series see page 115.

ENCLOSURES SERIES AF

AFB – Monoblock enclosure Single door

AFB enclosures with single door, include:

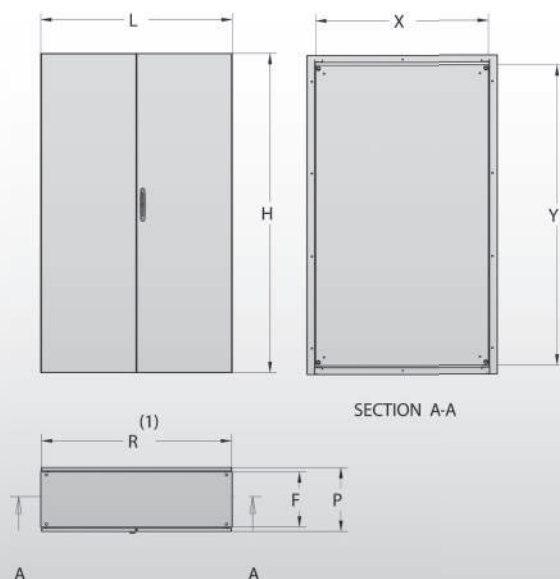
- Monoblock frame with cable entry
- Blind door **DBE** opening 120°, espanolette locking system, 3 mm double bar type (pag. 18)
- **RPE** rear panel (pag. 24)
- **PNA** mounting plate (pag. 27)

Elements to be ordered separately:

- Lifting eyebolts **GLR112** (pag. 57)
- Plinth **ZAK** H=100 mm (o 200 mm) and side flanges **FLK** (pag. 40)

Notes: - Enclosures W<1000 mm have single door;
- Doors, rear panels and mounting plates are suitable for use on the OK series

CODE	Nominal dimensions			Other dimensions			Dim. Inner plate	
	H	L	P	F	Door code	Rear panel code	X	Y
AFB1264	1200	600	400	346	DBE126	RPE126	490	1080
AFB1284	1200	800	400	346	DBE128	RPE128	690	1080
AFB12A4	1200	1000	400	346	DBE12A	RPE12A	890	1080
AFB1464	1400	600	400	346	DBE146	RPE146	490	1280
AFB1484	1400	800	400	346	DBE148	RPE148	690	1280
AFB14A4	1400	1000	400	346	DBE14A	RPE14A	890	1280
AFB1664	1600	600	400	346	DBE166	RPE166	490	1480
AFB1684	1600	800	400	346	DBE168	RPE168	690	1480
AFB16A4	1600	1000	400	346	DBE16A	RPE16A	890	1480
AFB1864	1800	600	400	346	DBE186	RPE186	490	1680
AFB1865	1800	600	500	446	DBE186	RPE186	490	1680
AFB1884	1800	800	400	346	DBE188	RPE188	690	1680
AFB1885	1800	800	500	446	DBE188	RPE188	690	1680
AFB18A4	1800	1000	400	346	DBE18A	RPE18A	890	1680
AFB18A5	1800	1000	500	446	DBE18A	RPE18A	890	1680
AFB2064	2000	600	400	346	DBE206	RPE206	490	1880
AFB2065	2000	600	500	446	DBE206	RPE206	490	1880
AFB2084	2000	800	400	346	DBE208	RPE208	690	1880
AFB2085	2000	800	500	446	DBE208	RPE208	690	1880
AFB20A4	2000	1000	400	346	DBE20A	RPE20A	890	1880
AFB20A5	2000	1000	500	446	DBE20A	RPE20A	890	1880



ENCLOSURES SERIES AF

AFB - Monoblock enclosure Double door

AFB enclosures with double doors are supplied with:

- monoblock frame with cable entry and flange
- pair of blind doors **DBE** 120° opening (pag. 18)
- rear panel screwed **RPE** (pag. 24)
- mounting plates in galvanised steel code **PNA** (pag. 27)

Elements to be ordered separately:

- Lifting eyebolts **GLR112** (pag. 57)
- Plinth **ZAK + FLK** H=100 mm (also available H=200 mm) (pag. 40)

CODE	Nominal dimensions			Other dimensions				Dim. Inner plate	
	H	L	P	F	R	Door code	Rear panel code	X	Y
AFB12C4	1200	1200	400	346	1192	DBE12C	RPE12C	1090	1080
AFB14C4	1400	1200	400	346	1192	DBE14C	RPE14C	1090	1280
AFB16C4	1600	1200	400	346	1192	DBE16C	RPE16C	1090	1480
AFB18C4	1800	1200	400	346	1192	DBE18C	RPE18C	1090	1680
AFB18C5	1800	1200	500	446	1192	DBE18C	RPE18C	1090	1680
AFB18E4	1800	1600	400	346	792(1)	DBE18E	RPE18E	749(1)	1680
AFB18E5	1800	1600	500	446	792(1)	DBE18E	RPE18E	749(1)	1680
AFB20C4	2000	1200	400	346	1192	DBE20C	RPE20C	1090	1880
AFB20C5	2000	1200	500	446	1192	DBE20C	RPE20C	1090	1880
AFB20E5	2000	1600	500	446	792(1)	DBE20E	RPE20E	749(1)	1880

Note: - (1) For enclosures l=1600 mm there are two rear panels and the frame has a central vertical upright;
- (2) Enclosures width l=1600 mm have two screwed mounting plates.

ENCLOSURES SERIES AF

AFV – Monoblock enclosure with glazed door

AFV enclosures are supplied with:

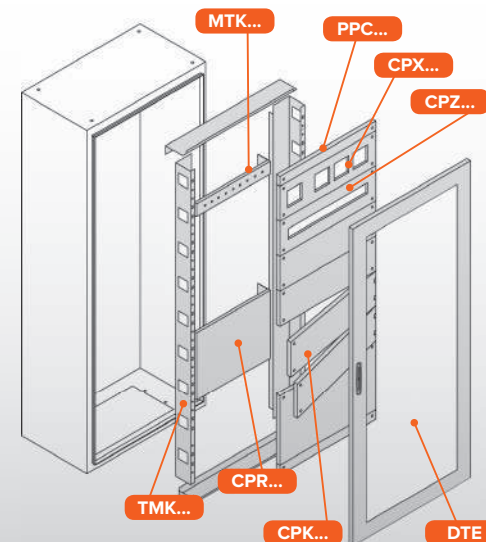
- Monoblock frame with cable entry and flanges
- Glazed door **DTE** opening 120° (pag. 19), espanolette locking, 3 mm double bar
- Inner blind door **DBI** (pag. 21)
- Rear panel **RPE** (pag. 24)
- Mounting plate **PNA** in galvanised steel (pag. 27)

Elements to be ordered separately:

- Lifting eyebolts **GLR112** (pag. 57)
- Plinth **ZAK + FLK** H=100 mm (also available H=200 mm) (pag. 40)

CODE	Nominal dimensions			Other dimensions			Dim. Inner plate	
	H	L	P	Glazed door code	Inner door code	Rear panel code	X	Y
AFV1264	1200	600	400	DTE126	DBI126	RPE126	490	1080
AFV1284	1200	800	400	DTE128	DBI128	RPE128	690	1080
AFV12A4	1200	1000	400	DTE12A	DBI12A	RPE12A	890	1080
AFV1464	1400	600	400	DTE146	DBI146	RPE146	490	1280
AFV1484	1400	800	400	DTE148	DBI148	RPE148	690	1280
AFV14A4	1400	1000	400	DTE14A	DBI14A	RPE14A	890	1280
AFV1664	1600	600	400	DTE166	DBI166	RPE166	490	1480
AFV1684	1600	800	400	DTE168	DBI168	RPE168	690	1480
AFV16A4	1600	1000	400	DTE16A	DBI16A	RPE16A	890	1480
AFV1864	1800	600	400	DTE186	DBI186	RPE186	490	1680
AFV1865	1800	600	500	DTE186	DBI186	RPE186	490	1680
AFV1884	1800	800	400	DTE188	DBI188	RPE188	690	1680
AFV1885	1800	800	500	DTE188	DBI188	RPE188	690	1680
AFV18A4	1800	1000	400	DTE18A	DBI18A	RPE18A	890	1680
AFV18A5	1800	1000	500	DTE18A	DBI18A	RPE18A	890	1680
AFV2064	2000	600	400	DTE206	DBI206	RPE206	490	1880
AFV2065	2000	600	500	DTE206	DBI206	RPE206	490	1880
AFV2084	2000	800	400	DTE208	DBI208	RPE208	690	1880
AFV2085	2000	800	500	DTE208	DBI208	RPE208	690	1880
AFV20A4	2000	1000	400	DTE20A	DBI20A	RPE20A	890	1880
AFV20A5	2000	1000	500	DTE20A	DBI20A	RPE20A	890	1880

Note: - cabinets larger than 1000 mm have two doors;
- doors, backs and internal plates are the same as those used on OK cabinets;
- 95mm distance between external door and internal door.



ENCLOSURES SERIES AF

AFV - Enclosure with double glazed doors

AFV enclosures are supplied with:

- Monoblock frames with cable entry and flanges
- **DTE** double glazed doors, opening 120°, espanolette locking system, double bar 3mm (pag. 19)
- **DBI** double inner doors opening 110°, (pag. 21)
- **RPE** rear panel (pag. 24)
- **PNA** mounting plate in galvanised steel (pag. 27)

Elements to be ordered separately:

- Lifting eyebolts **GLR112** (pag. 57)
- Plinth **ZAK** + **FLK** H=100 mm (also H=200 mm), (pag. 40)

Note:

- Enclosures width 1600 mm have a rear intermediate upright and a pair of rear panels
- the doors, the backs and the mounting plates are the same as those used on the OK series

CODE	Nominal dimensions			Other dimensions and codes					
	H	L	P	R	CODE glazed doors	CODE inner doors	CODE back panel	X	Y
AFV12C4	1200	1200	400	1192	DTE12C	DBI12C	RPE12C	1090	1080
AFV14C4	1400	1200	400	1192	DTE14C	DBI14C	RPE14C	1090	1280
AFV16C4	1600	1200	400	1192	DTE16C	DBI16C	RPE16C	1090	1480
AFV18C4	1800	1200	400	1192	DTE18C	DBI18C	RPE18C	1090	1680
AFV18C5	1800	1200	500	1192	DTE18C	DBI18C	RPE18C	1090	1680
AFV18E4	1800	1600	400	792(1)	DTE18E	DBI18E	RPE18E	749(2)	1680
AFV18E5	1800	1600	500	792(1)	DTE18E	DBI18E	RPE18E	749(2)	1680
AFV20C4	2000	1200	400	1192	DTE20C	DBI20C	RPE20C	1090	1880
AFV20C5	2000	1200	500	1192	DTE20C	DBI20C	RPE20C	1090	1880
AFV20E5	2000	1600	500	792(1)	DTE20E	DBI20E	RPE20E	749(2)	1880

- Notes:**
- the rear panels for wardrobes l = 1600 mm are two and the frame is intended with a central upright on the back
 - there are two wiring plates for cabinets l = 1600 mm, coupled and screwed together
 - the dimensional characteristics of the doors, rear panels and plates are the same as those of the OK series cabinets

ENCLOSURES SERIES AF

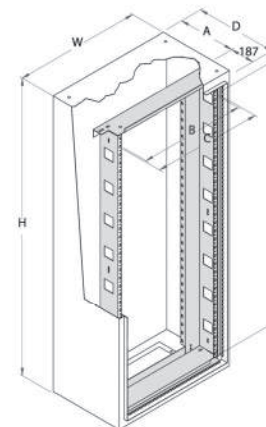
AFD - Enclosures with modular inner frame

AFD enclosures are supplied with:

- Monoblock frame
- cable entry with removable flanges
- **DTE** glazed door (pag.19)
- **RPE** rear screwed panel (pag. 24)
- **TMI** modular inner frame
- Mounting plate **PNA** in galvanised steel (pag. 27)

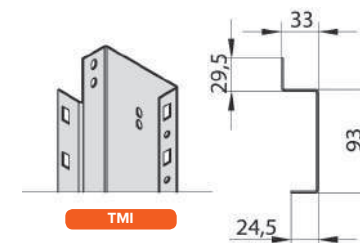
Note:

- for details of the internal modular system (pag. 80 see following)



CODE	Nominal dimensions			Other dimensions			
	H	L	P	A	B	C	N
AFD1264	1200	600	400	200	440	465	1000
AFD1284	1200	600	400	200	440	465	1000
AFD1464	1400	600	400	200	440	465	1200
AFD1484	1400	800	400	200	640	665	1200
AFD1664	1600	600	400	200	440	465	1400
AFD1684	1600	800	400	200	640	665	1400
AFD1864	1800	600	400	200	440	465	1600
AFD1865	1800	600	500	300	440	465	1600
AFD1884	1800	800	400	200	640	665	1600
AFD1885	1800	800	500	300	640	665	1600
AFD2064	2000	600	400	200	440	465	1800
AFD2065	2000	600	500	300	440	465	1800
AFD2084	2000	800	400	200	640	665	1800
AFD2085	2000	800	500	300	640	665	1800

FEATURES FEATURES MODULAR FRAME

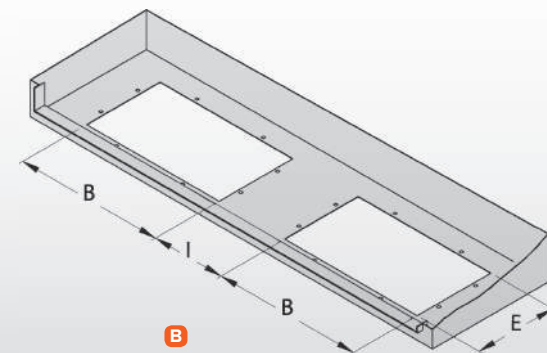
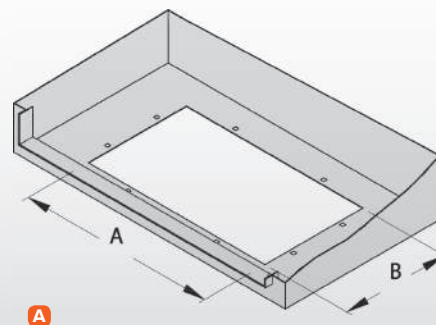
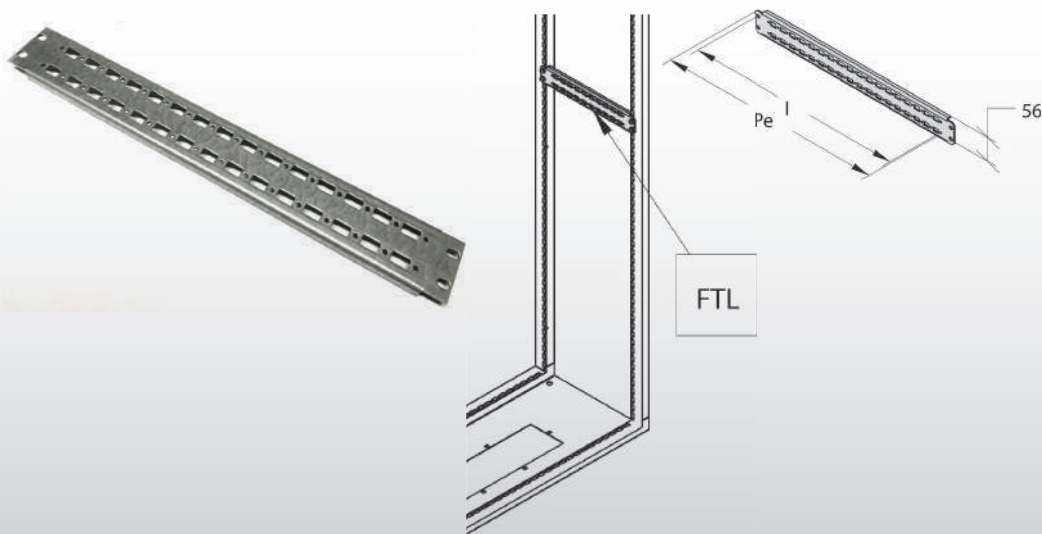


- Note:**
- "N" is the total height to be filled with modular panels, the necessary compensation panels h=50mm each are not included in this dimension
 - B distance between modular frame elements
 - C distance between modular frame elements



ENCLOSURES SERIES AF

AFO – Horizontal monoblock enclosures, with double doors



ENCLOSURES SERIES AF FTL - Side mounting profile - Series AF

Description: it is fixed in any position to the slots of the vertical frame elements of the AF enclosures.

Code FTL includes:

- Profile FTL
- Fixing screws and cage nuts

CODE	Enclosures depth	Other dimensions	
	H	I	Pe
FTL456	400	324	340
FTL556	500	424	440
FTL656	600	524	540
FTL856	800	724	740

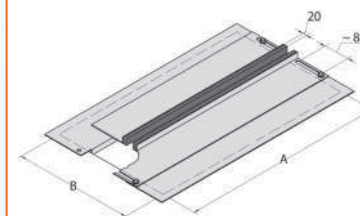
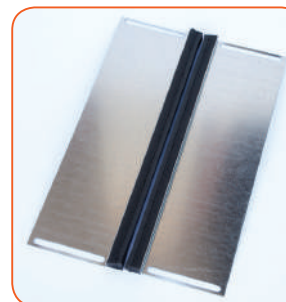
ENCLOSURES SERIES AF AF - Frame cable entry

CODE	Characteristic dimensions	
	A	B
AF...64	404	230
AF...84	604	230
AF...A4	804	230
AF...C4	1004	230
AF1865 AF2065	404	230
AF1885 AF2085	604	230
AF18A5 AF20A5	804	230
AF18C5 AF20C5	1004	230

CODE	Characteristic dimensions		
	A	B	I
AFB18E4 AF061604 AF081604 AF101604	604	230	195
AFB18E5 AFB20E5	604	280	195
AF081804 AF101804	604	280	295
AF082004 AF102004	804	230	195

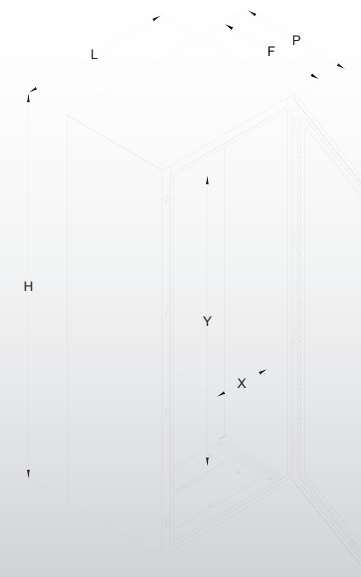
PPG - Guillotine cable entry for enclosures series AF

Description: the PPG is installed instead of the standard cable entry flanges at the bottom of the enclosure, it guarantees additional protection against dust thanks to a rubber gasket. It is made of two adjustable parts, and can be mounted in any moment.



Cable entry AF				
L	P	CODE	A	B
400	400	PPG 404	210	220
400	500	PPG 405	210	220
600	400	PPG 604	404	230
600	500	PPG 605	404	280
600	600	PPG 606	404	380
800	400	PPG 804	604	230
800	500	PPG 805	604	280
800	600	PPG 806	604	380
1000	400	PPG 104	804	230
1000	500	PPG 105	804	280
1000	600	PPG 106	804	380
1200	400	PPG 124	1004	230
1200	500	PPG 125	1004	280
1200	600	PPG 126	1004	380
1400	500	PPG 145	1204	280
1400	600	PPG 146	1204	380

Notes: Guillotine cable entry available also for OK series of enclosures, code to be ordered is PPG... (same code type as PPG)*



ENCLOSURES SERIES AS

SERIES AS, monoblock enclosures IP 55

Description: the AS series are monoblock enclosures with totally welded structure in steel sheet thickness 1.5 mm. The hinged doors are in 2. mm thick steel sheet. The mounting plates are in 2.5 mm thick galvanised steel. The frame is complete with cable entry and flanges. Painting is powder coating type, epoxipolyester RAL 7035 textured.

The series AS is available in the following versions:

- **ASB**, enclosure with blind door and mounting plate;
- **ASV**, enclosure with glazed door, inner door and mounting plate;
- **ASD**, enclosure with glazed external door, inner modular frame

Painting: with epoxy-polyester thermosetting powders

- Panels: RAL 7035 textured
- Plinth: RAL 7024 glossy (graphite gray)

Protection:

- IP55, IEC 62208 ; CEI EN 62262
- IK10, IEC 62208 ; CEI EN 62262
- Nema type 1-12: CSA22.2,941 e 942, UL508a

Technical features:

- external panel thickness 15/10
- door thickness 20/10
- mounting plate thickness 25/10

Certifications:



ENCLOSURES SERIES AS

ASB - Monoblock enclosure, single door

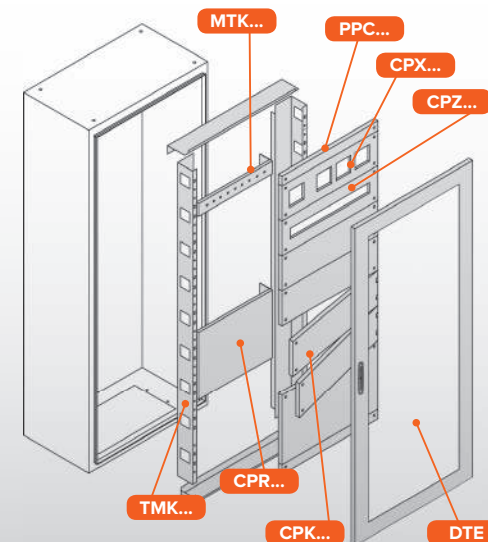
ASB enclosures with single door are supplied with:

- Monoblock frame
- DBE blind door opening 120° (pag. 18) , espanolette closing system, 3mm double bar lock, (pag. 18)
- PNA mounting plate (pag. 27)

Additional elements:

- Plinth ZAK + FLK H=100 mm (also H=200 mm) (pag. 40)
- eyebolts GLR112 (pag. 57)

CODE	Nominal dimensions			Other dimensions and codes		Dim. Inner plate	
	H	L	P	F	Door code	X	Y
ASB1264	1200	600	400	373	DBE126	490	1080
ASB1284	1200	800	400	373	DBE128	690	1080
ASB1462	1400	600	250	173	DBE146	490	1280
ASB1464	1400	600	400	373	DBE146	490	1280
ASB1484	1400	800	400	373	DBE148	690	1280
ASB1662	1600	600	250	173	DBE166	490	1480
ASB1664	1600	600	400	373	DBE166	490	1480
ASB1684	1600	800	400	373	DBE168	690	1480
ASB1686	1600	800	600	573	DBE168	690	1480
ASB1864	1800	600	400	373	DBE186	490	1680
ASB1884	1800	800	400	373	DBE188	690	1680
ASB1886	1800	800	600	573	DBE188	690	1680
ASB2084	2000	800	400	373	DBE208	690	1880
ASB2086	2000	800	600	573	DBE208	690	1880
ASB20A4	2000	1000	400	373	DBE20A	890	1880
ASB20A6	2000	1000	600	573	DBE20A	890	1880



ENCLOSURES SERIES AS

ASV – Monoblock enclosure with glazed door

ASV enclosures, are supplied with:

- Monoblock frame
- DTE glazed external door opening 120° (pag. 19)
- DBI inner blind door (pag. 21)
- PNA mounting plate (pag. 27)

Completing elements:

- plinth ZAK + FLK H=100 mm (also H= 200 mm), see pages (pag. 40)
- eyebolts GLR112 (pag. 57)

CODE	Nominal dimensions			Other dimensions and codes			Dim. inner plate	
	H	L	P	F	Code door	Code inner door	X	Y
ASV1264	1200	600	400	373	DTE126	DBI126	490	1080
ASV1284	1200	800	400	373	DTE128	DBI128	690	1080
ASV1462	1400	600	250	173	DTE146	DBI146	490	1280
ASV1464	1400	600	400	373	DTE146	DBI146	490	1280
ASV1484	1400	800	400	373	DTE148	DBI148	690	1280
ASV1662	1600	600	250	173	DTE166	DBI166	490	1480
ASV1664	1600	600	400	373	DTE166	DBI166	490	1480
ASV1684	1600	800	400	373	DTE168	DBI168	690	1480
ASV1686	1600	800	600	573	DTE168	DBI168	690	1480
ASV1864	1800	600	400	373	DTE186	DBI186	490	1680
ASV1884	1800	800	400	373	DTE188	DBI188	690	1680
ASV1886	1800	800	600	573	DTE188	DBI188	690	1680
ASV2084	2000	800	400	373	DTE208	DBI208	690	1880
ASV2086	2000	800	600	573	DTE208	DBI208	690	1880
ASV20A4	2000	1000	400	373	DTE20A	DBI20A	890	1880
ASV20A6	2000	1000	600	573	DTE20A	DBI20A	890	1880

ENCLOSURES SERIES AS

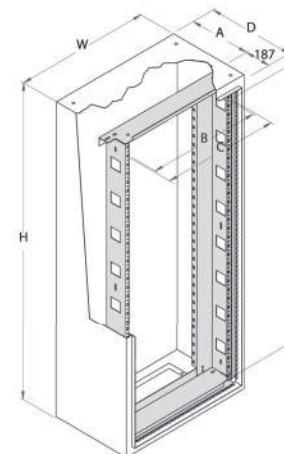
ASD - Modular monoblock enclosure

Code ASD includes:

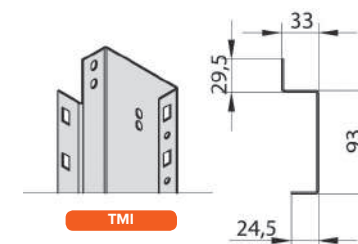
- Monoblock frame
- DTE external glazed door (pag. 19)
- TMI inner modular frame

For details on the modular inner system refer to (page 81)

CODE	Nominal dimensions			Other dimensions			
	H	L	P	A	B	C	N
ASD1264	1200	600	400	249	440	465	1000
ASD1284	1200	800	400	249	440	465	1000
ASD1462	1400	600	250	49	440	465	1200
ASD1464	1400	600	400	249	440	465	1200
ASD1484	1400	800	400	249	640	665	1200
ASD1662	1600	600	250	49	440	465	1400
ASD1664	1600	600	400	249	440	465	1400
ASD1684	1600	800	400	249	640	665	1400
ASD1864	1800	600	400	249	440	465	1600
ASD1884	1800	800	400	249	640	665	1600
ASD2084	2000	800	400	249	640	665	1800
ASD2086	2000	800	600	449	640	665	1800



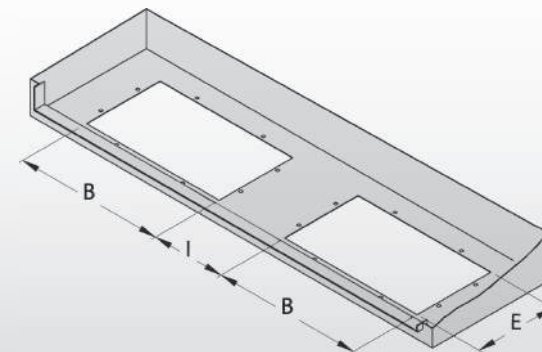
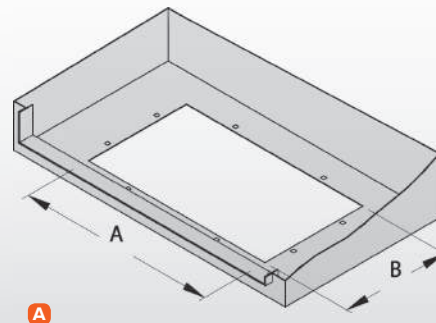
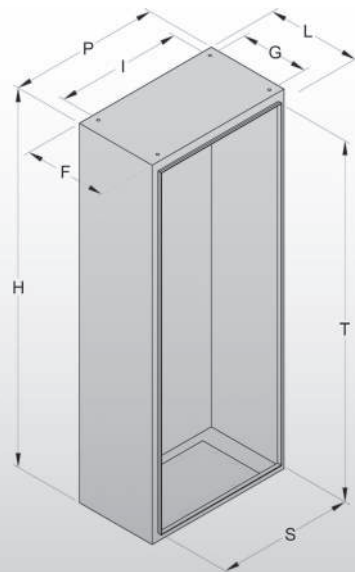
FEATURES FEATURES MODULAR FRAME



Notes: the dimension N corresponds to the height dimension to be occupied with the panels referred to on page 81 and following, except for the two upper and lower compensation panels, supplied separately.

B - Internal frame height

C - Quote center distance square holes



ENCLOSURES SERIES AS AS - monoblock frame

AS code includes:

- Monoblock frame
- Cable entry and flanges
- Possibility of installing eyebolts, plinth and different additional elements

Elements to be ordered separately:

- DBE blind door hinged and reversible, opening 120° (pag. 18)
- Plinth ZAK + FLK H=100mm (also H= 200 mm) (pag. 40)
- PNA mounting plate (pag. 27)

CODE	Nominal dimensions			Other dimensions				
	H	L	P	F	G	I	S	T
AS1264	1200	600	400	373	311	528	501	1111
AS1284	1200	800	400	373	311	728	701	1111
AS1462	1400	600	250	173	111	528	501	1311
AS1464	1400	600	400	373	311	528	501	1311
AS1484	1400	800	400	373	311	728	701	1311
AS1662	1600	600	250	173	111	528	501	1511
AS1664	1600	600	400	373	311	528	501	1511
AS1684	1600	800	400	373	311	728	701	1511
AS1686	1600	800	600	573	511	728	701	1511
AS1864	1800	600	400	373	311	528	501	1711
AS1884	1800	800	400	373	311	728	701	1711
AS1886	1800	800	600	573	511	728	701	1711
AS2084	2000	800	400	373	311	728	701	1911
AS2086	2000	800	600	573	511	728	701	1911
AS20A4	2000	1000	400	373	311	928	901	1911
AS20A6	2000	1000	600	573	511	928	901	1911

ENCLOSURES SERIES AS AS - Frames cable entry

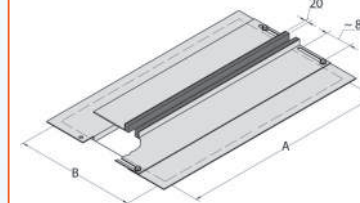
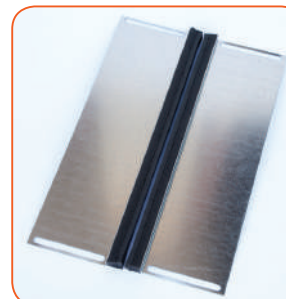
CODE	Characteristic dimensions	
	A	B
AS...64	404	230
AS...84	604	230
AS...A4	804	230
AS...C4	1004	230
AS1865 AF2065	404	230
AS1885 AF2085	604	230
AS18A5 AF20A5	804	230
AS18C5 AF20C5	1004	230

CODE	Characteristic dimensions		
	A	B	I
ASB18E4 AS061604 AS081604 AS101604	604	230	195
ASB18E5 ASB20E5	604	280	195
AS081804 AS101804	604	280	295
AS082004 AS102004	804	230	195

PPG - Guillotine cable entry for AS Enclosures

Descrizione: it is mounted on the bottom of the cabinet instead of the fixed plates (standard cable entry) and prevents, by pressing the gasket which is fitted, the entry of dust inside the panel.

It is divided into two parts adjustable in the sense of depth (excursion of about 85 mm per part). It can also be mounted later if it is necessary to replace the standard one.



Cable entry AS				
L	P	CODE	A	B
400	400	PPG 404	210	220
400	500	PPG 405	210	220
600	400	PPG 604	404	230
600	500	PPG 605	404	280
600	600	PPG 606	404	380
800	400	PPG 804	604	230
800	500	PPG 805	604	280
800	600	PPG 806	604	380
1000	400	PPG 104	804	230
1000	500	PPG 105	804	280
1000	600	PPG 106	804	380
1200	400	PPG 124	1004	230
1200	500	PPG 125	1004	280
1200	600	PPG 126	1004	380
1400	500	PPG 145	1204	280
1400	600	PPG 146	1204	380

Note: guillotine cable entry also available for the OK series, KPG reference code (same construction as PPG code)