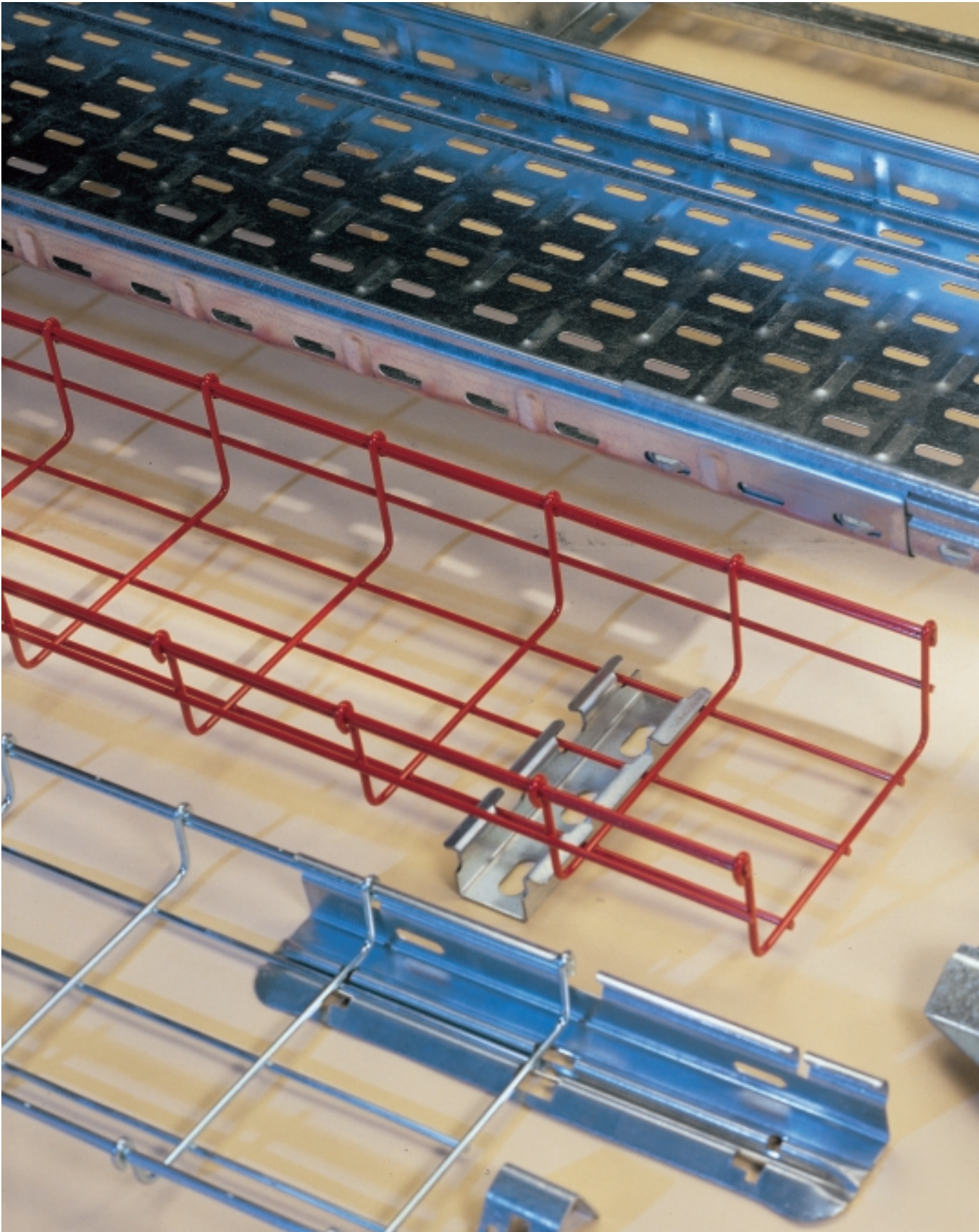


CABLE TRAY SYSTEMS





TS RANGE

PVC cable tray systems, supports and fittings



Contents

● Advantages of the PVC cable tray systems	Page 123
● Selection guide	Page 124
● PVC cable trays	Page 128
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● AISI 304 stainless steel supports	Page 130
● Bolts	Page 131
● PVC horizontal supports and suspensions	Page 131

**TANDEM SYSTEM (TS)
RIGID PVC
CABLE TRAYS**
Corrosion resistant

The three advantages of the PVC raceway (TS)

- Twice as fast to lay by 100% automatic assembly.
- Twin cable ventilation system thanks to the perforation and cross ribbing on the bottom of the trunking.
- The branching can be made directly on the site of assembly thanks to the "Tandem System" to make bends, T-joints, horizontal and vertical joints.

PVC cable raceways are resistant to corrosion and are therefore more cost-effective than metal raceways.

Characteristics

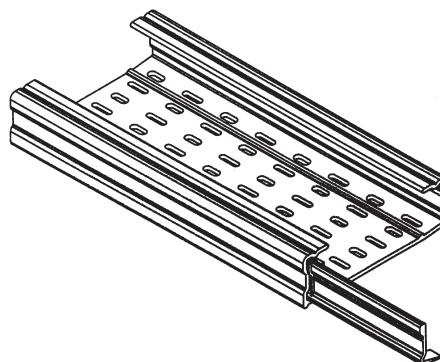
- Perfect rigidity obtained by the composition of the rigid PVC, the height of the sides and the considerable thickness of the edge with its C-profile.
- Resistant to chemical products (acids), very damp, saline and corrosive environments.
- Cost-effective installation thanks to it being easy to cut and the availability of a complete range of specifically designed accessories such as covers, mountings and couplings.
- Eliminates all earthing problems.
- Working temperature range: -20°C to +50°C.

Applications

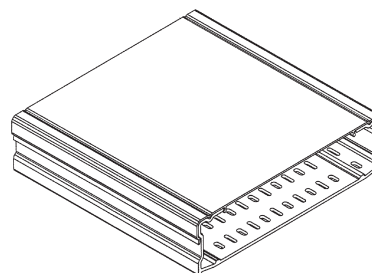
- Chemical, textile, petroleum, paper-making industries, etc.
- Chemical fertilizers, service spaces, sewage and water treatment.
- All industrial complexes located in damp places.
- Seaside locations.

The three guaranteed assurances of the PVC TS system

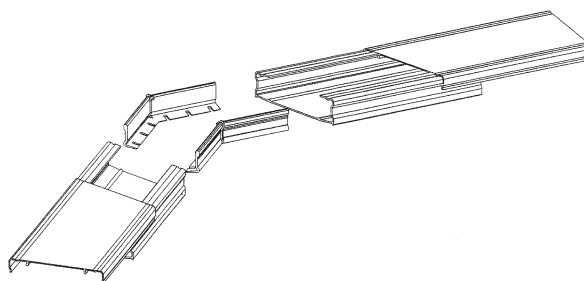
- **PVC** is extremely **resistant** in damp and corrosive areas (DIN 8061).
- **PVC** is a **non-metallic** material: all parts of the cable trays are protected. Insulating: there are no earthing problems.
- **PVC** is a material with flame spread grading classified **M1** (non-flammable) according to NFP 92-501.



The coupler for rigid connection is boltless for quicker assembly.



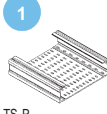
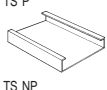
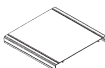

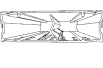



Fixing the snap-on cover (boltless).


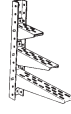










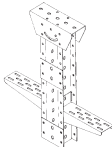
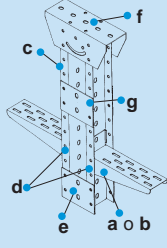
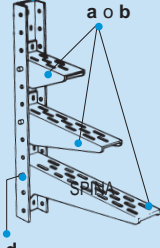







To change direction horizontally as well as vertically, a jointing piece is available for easy fabrication on-site of riser bends, elbows, tees and crossovers.

TS RANGE

Selection guide

TS Range PVC cable trays							90° horizontal elbow kit		
FLAME SPREAD GRADING: M1 COLOUR: GREY RAL 7030 LENGTH: 3 METRES		 TS P	 TS NP	 COVER	 SELF-TAPPING STAINLESS STEEL SAFETY SCREW	 DIVIDER	 SPEED-LOCK COUPLER	 FIXING BOLTS	90° HORIZONTAL ELBOW KIT  6 CABLE TRAYS 7 COVER
TS P PERFORATED CABLE TRAYS	DIMENSIONS W x H MM	MV 70 020	MV 70 000	MV 66 630	MV 79 001	MV 71 011	MV 66 802 (on horizontal bracket) or MV 66 712 (on vertical bracket)	MV 72 000	MV 72 010
	100 x 60	MV 70 021	MV 70 001					MV 72 001	MV 72 011
	200 x 60	MV 70 022	MV 70 002					MV 72 002	MV 72 012
	300 x 60	MV 70 023	MV 70 003					MV 72 003	MV 72 013
	400 x 100	MV 70 024	MV 70 004					MV 72 004	MV 72 014
TS NP NON-PERFORATED CABLE TRAYS	100 x 60	MV 70 040	MV 70 000	MV 66 630	MV 79 001	MV 71 011	MV 66 802 (on horizontal bracket) or MV 66 712 (on vertical bracket)		
	200 x 60	MV 70 041	MV 70 001						
	300 x 60	MV 70 042	MV 70 002						
	400 x 100	MV 70 043	MV 70 003						
	500 x 100	MV 70 044	MV 70 004						

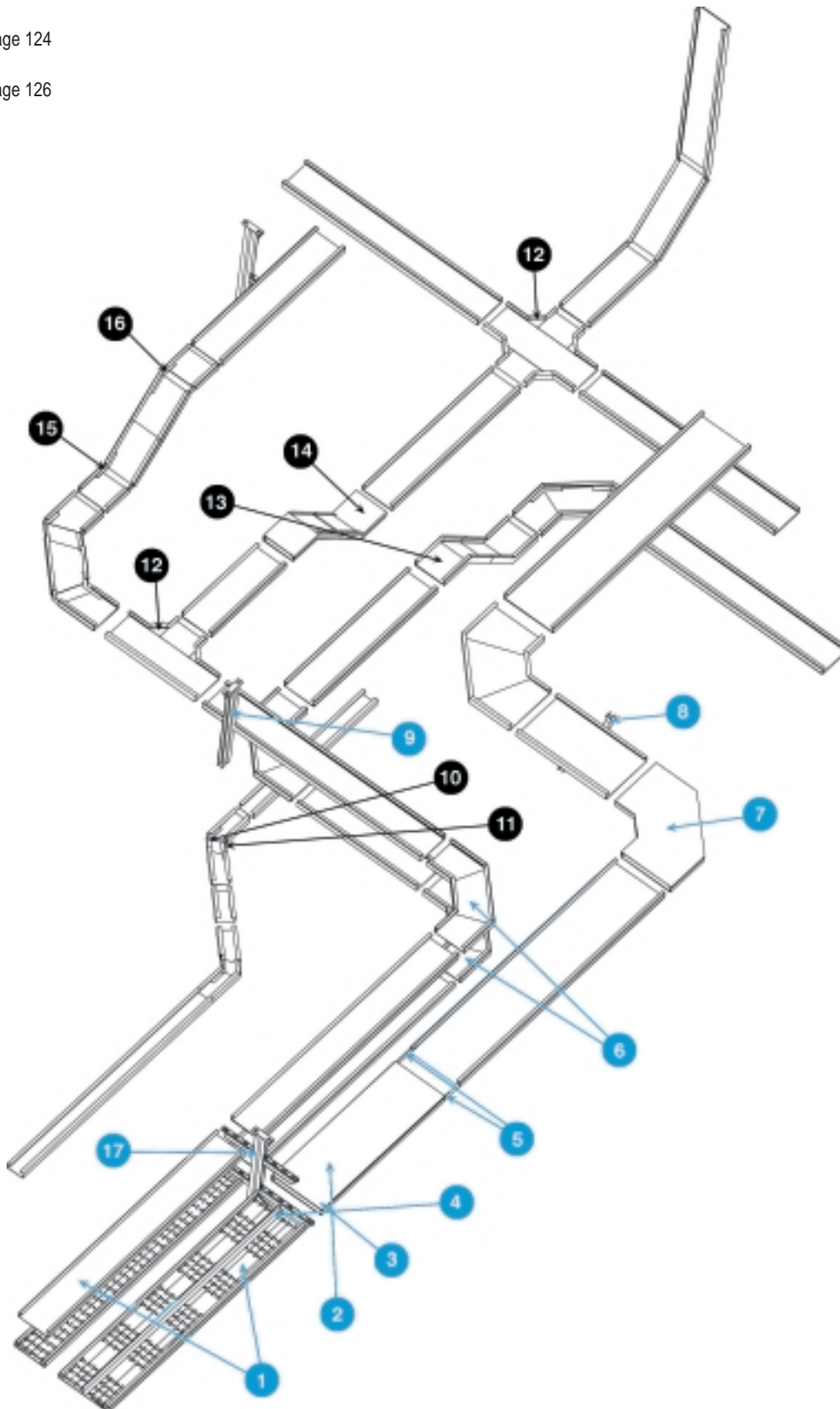
TS Range PVC cable tray supports									
		8 CANTILEVER BRACKETS 				9 CANTILEVER BRACKETS 			
		 AISI 304 OMEGA BRACKET	 AISI 304 OMEGA REINFORCED BRACKET	 DOUBLE-DUTY FIXING BRACKET	 AISI 304 VERTICAL FIXING BRACKET	 DOUBLE-DUTY FIXING BRACKET	 SINGLE-DUTY FIXING BRACKET	 PVC PROFILE LENGHT 250 MM LENGHT 2000 MM	 ROD
TS P PERFORATED CABLE TRAYS TS NP NON-PERFORATED CABLE TRAYS	100 x 60	MV 60 600		MV 60 741	MV 64 670	MV 60 741		MV 62 730	MV 62 734 MV 64 924
	200 x 60	MV 60 601		MV 60 743	MV 64 671	MV 60 743		MV 62 730	
	300 x 60		MV 60 612	MV 60 744	MV 64 672	MV 60 744		MV 62 730	
	400 x 100		MV 60 613		MV 64 673		MV 60 756		
	500 x 100		MV 60 614		MV 64 674		MV 60 757		

DOUBLE PENDANT								DOUBLE PENDANT		CANTILEVER BRACKETS	
		17 						17 		9 	
		 DOUBLE-DUTY FIXING BRACKET	 SINGLE-DUTY FIXING BRACKET	 PROFILE LENGHT 2000 mm	 ROD	 AISI 304 SPACING PLATE	 AISI 304 CEILING FIXING PLATE	 BOLT	MV 62 734 MV 64 924 MV 64 622 MV 64 620 MV 66 814		
TS P PERFORATED CABLE TRAYS TS NP NON-PERFORATED CABLE TRAYS	100 x 60	MV 60 741									
	200 x 60	MV 60 743									
	300 x 60	MV 60 744									
	400 x 100		MV 60 756								
	500 x 100		MV 60 757								

TS Range PVC cable trays

● See page 124

● See page 126



TS RANGE

Selection guide

Fittings to form										
	HORIZONTAL FITTINGS TO FORM	90° HORIZONTAL ELBOW		135° HORIZONTAL ELBOW		HORIZONTAL TEE		HORIZONTAL CROSS		
	PARTS TO ORDER	OBLIQUE HORIZONTAL FLAT PIECE FOR HORIZONTAL ELBOW OF 135° OR OF 90°		OBLIQUE HORIZONTAL FLAT PIECE FOR HORIZONTAL ELBOW OF 135° OR OF 90°		90° ANGLED JOINTING FLAT PIECE FOR HORIZONTAL TEE		90° ANGLED JOINTING FLAT PIECE FOR HORIZONTAL CROSS		
DIMENSIONS W x H (MM)										
		EXTERNAL	INTERNAL	EXTERNAL	INTERNAL					
TS P PERFORATED CABLE TRAYS	100 x 60	n° 2	n° 2	n° 1	n° 1	n° 2	n° 2	n° 4	n° 4	
	200 x 60	MV 71 031	MV 71 030	MV 71 031	MV 71 030	MV 71 032	MV 71 032	MV 71 032	MV 71 032	
	300 x 60									
	400 x 100	n° 2	n° 2	n° 1	n° 1	n° 2	n° 2	n° 4	n° 4	
	500 x 100	MV 71 034	MV 71 033	MV 71 034	MV 71 033	MV 71 035	MV 71 035	MV 71 035	MV 71 035	
TS NP NON-PERFORATED CABLE TRAYS	100 x 60	n° 2	n° 2	n° 1	n° 1	n° 2	n° 2	n° 4	n° 4	
	200 x 60	MV 71 031	MV 71 030	MV 71 031	MV 71 030	MV 71 032	MV 71 032	MV 71 032	MV 71 032	
	300 x 60									
	400 x 100	n° 2	n° 2	n° 1	n° 1	n° 2	n° 2	n° 4	n° 4	
	500 x 100	MV 71 034	MV 71 033	MV 71 034	MV 71 033	MV 71 035	MV 71 035	MV 71 035	MV 71 035	

	VERTICAL FITTINGS TO FORM	VERTICAL CHANGE LEVELS AND ELBOWS					90° INSIDE VERTICAL ELBOWS			
	PARTS TO ORDER	DOUBLE DUTY TS MODULE ADJUSTABLE INSIDE/OUTSIDE FOR CHANGING LEVELS AND VERTICAL ELBOW		GUSSET FOR DOUBLE-DUTY MODULE		SPEED-LOCK COUPLER	DOUBLE DUTY TS MODULE ADJUSTABLE INSIDE/OUTSIDE FOR CHANGING LEVELS AND VERTICAL ELBOW		GUSSET FOR DOUBLE-DUTY MODULE	SPEED-LOCK COUPLER
DIMENSIONS W x H (MM)										
		BASE	COVER*	INSIDE	OUTSIDE	"TS"	BASE	COVER*	INSIDE	"TS"
TS P PERFORATED CABLE TRAYS	100 x 60	n°2 MV 74 000	n°2 MV 74 010	n°2	n°2	n°2	n°2 MV 74 000	n°2 MV 74 010	n°4	n°2
	200 x 60	n°2 MV 74 001	n°2 MV 74 011	MV 71 040	MV 71 041	MV 71 011	n°2 MV 74 001	n°2 MV 74 011	MV 71 040	MV 71 011
	300 x 60	n°2 MV 74 002	n°2 MV 74 012				n°2 MV 74 002	n°2 MV 74 012		
	400 x 100	n°2 MV 74 003	n°2 MV 74 013	n°2	n°2	n°2	n°2 MV 74 003	n°2 MV 74 013	n°4	n°2
	500 x 100	n°2 MV 74 004	n°2 MV 74 014	MV 71 043	MV 71 044	MV 71 013	n°2 MV 74 004	n°2 MV 74 014	MV 71 043	MV 71 013
TS NP NON-PERFORATED CABLE TRAYS	100 x 60	n°2 MV 74 000	n°2 MV 74 010	n°2	n°2	n°2	n°2 MV 74 000	n°2 MV 74 010	n°4	n°2
	200 x 60	n°2 MV 74 001	n°2 MV 74 011	MV 71 040	MV 71 041	MV 71 011	n°2 MV 74 001	n°2 MV 74 011	MV 71 040	MV 71 011
	300 x 60	n°2 MV 74 002	n°2 MV 74 012				n°2 MV 74 002	n°2 MV 74 012		
	400 x 100	n°2 MV 74 003	n°2 MV 74 013	n°2	n°2	n°2	n°2 MV 74 003	n°2 MV 74 013	n°4	n°2
	500 x 100	n°2 MV 74 004	n°2 MV 74 014	MV 71 043	MV 71 044	MV 71 013	n°2 MV 74 004	n°2 MV 74 014	MV 71 043	MV 71 013

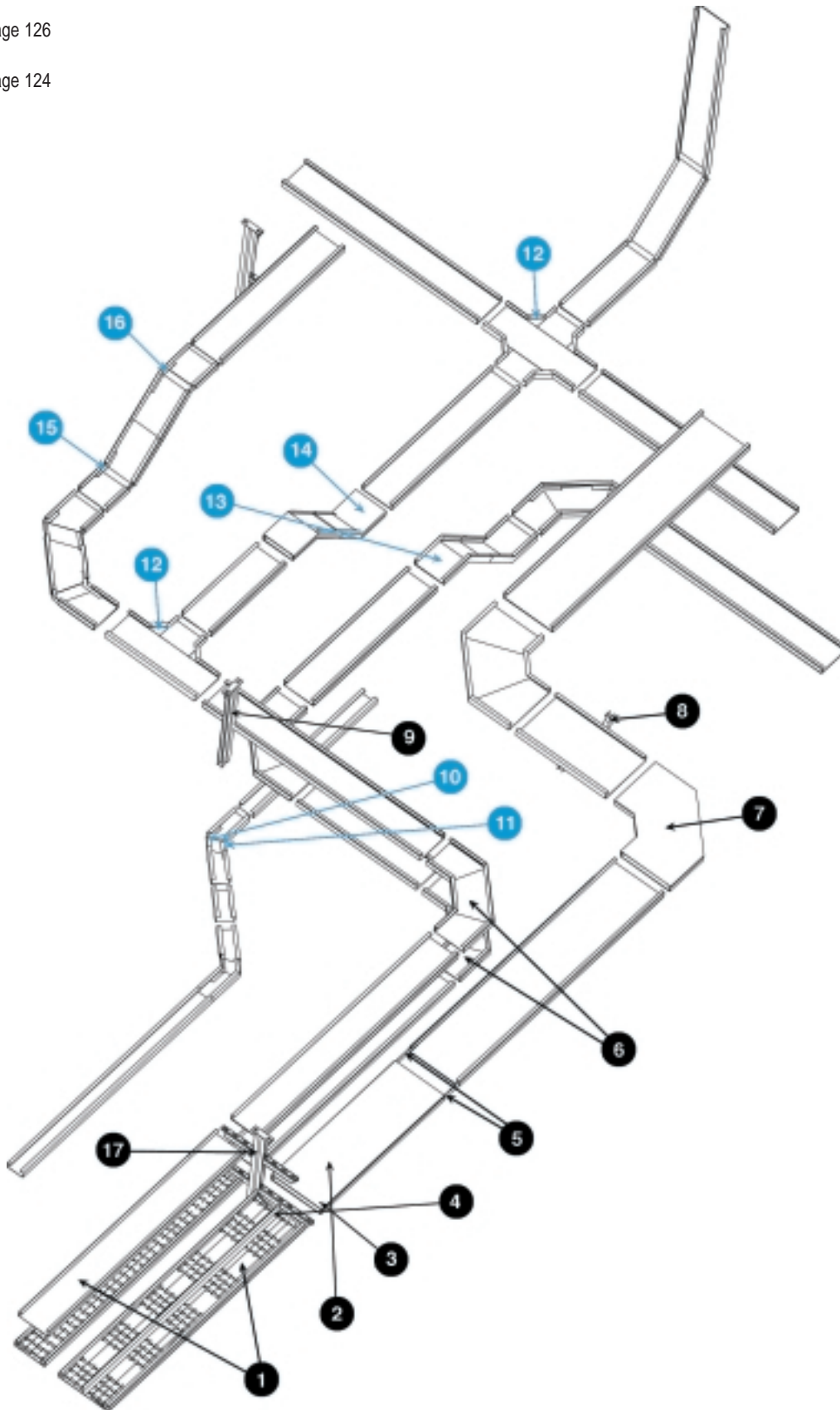
	FITTINGS TO FORM	135° INSIDE VERTICAL ELBOW			90° OUTSIDE VERTICAL ELBOW			135° OUTSIDE VERTICAL ELBOW			
	PARTS TO ORDER	DOUBLE DUTY TS MODULE ADJUSTABLE INSIDE/OUTSIDE FOR CHANGING LEVELS AND VERTICAL ELBOW		INSIDE RIDER GUSSET	DOUBLE DUTY TS MODULE ADJUSTABLE INSIDE/OUTSIDE FOR CHANGING LEVELS AND VERTICAL ELBOW		OUTSIDE RIDER GUSSET	SPEED-LOCK COUPLER	DOUBLE DUTY TS MODULE ADJUSTABLE INSIDE/OUTSIDE FOR CHANGING LEVELS AND VERTICAL ELBOW		OUTSIDE RIDER GUSSET
DIMENSIONS W x H (MM)											
		BASE	COVER*	INSIDE	BASE	COVER*	OUTSIDE	"TS"	BASE	COVER*	OUTSIDE
TS P	100 x 60	n°1 MV 74 000	n°1 MV 74 010	n°2	n°2 MV 74 000	n°2 MV 74 010	n°2	n°2	n°1 MV 74 000	n°1 MV 74 010	n°2
	200 x 60	n°1 MV 74 001	n°1 MV 74 011	MV 71 040	n°2 MV 74 001	n°2 MV 74 011	MV 71 041	MV 71 011	n°1 MV 74 001	n°1 MV 74 011	MV 71 041
	300 x 60	n°1 MV 74 002	n°1 MV 74 012		n°2 MV 74 002	n°2 MV 74 012			n°1 MV 74 002	n°1 MV 74 012	
	400 x 100	n°1 MV 74 003	n°1 MV 74 013	n°2	n°2 MV 74 003	n°2 MV 74 013	n°4	n°2	n°1 MV 74 003	n°1 MV 74 013	n°2
	500 x 100	n°1 MV 74 004	n°1 MV 74 014	MV 71 043	n°2 MV 74 004	n°2 MV 74 014	MV 71 044	MV 71 013	n°1 MV 74 004	n°1 MV 74 014	MV 71 044
TS NP	100 x 60	n°1 MV 74 000	n°1 MV 74 010	n°2	n°2 MV 74 000	n°2 MV 74 010	n°4	n°2	n°1 MV 74 000	n°1 MV 74 010	n°2
	200 x 60	n°1 MV 74 001	n°1 MV 74 011	MV 71 040	n°2 MV 74 001	n°2 MV 74 011	MV 71 041	MV 71 011	n°1 MV 74 001	n°1 MV 74 011	MV 71 041
	300 x 60	n°1 MV 74 002	n°1 MV 74 012		n°2 MV 74 002	n°2 MV 74 012			n°1 MV 74 002	n°1 MV 74 012	
	400 x 100	n°1 MV 74 003	n°1 MV 74 013	n°2	n°2 MV 74 003	n°2 MV 74 013	n°4	n°2	n°1 MV 74 003	n°1 MV 74 013	n°2
	500 x 100	n°1 MV 74 004	n°1 MV 74 014	MV 71 043	n°2 MV 74 004	n°2 MV 74 014	MV 71 044	MV 71 013	n°1 MV 74 004	n°1 MV 74 014	MV 71 044

* Optional

TS Range PVC cable trays

● See page 126

● See page 124



TS RANGE

Rigid PVC cable tray systems, supports and fittings

TECHNICAL CHARACTERISTICS - TS TANDEM SYSTEM

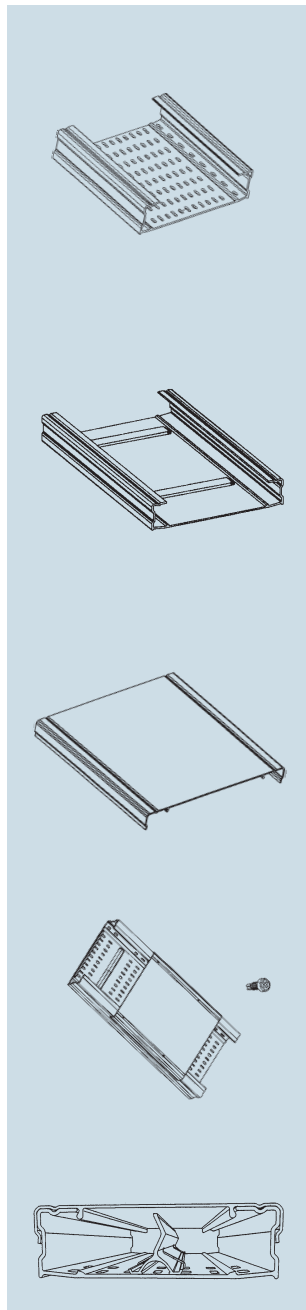
- **STANDARDS:** Resistance to chemical agents: DIN 8061 standard
Resistance to impact: NFC 68-102 = IP 7 at 23°C
Spread grading: NFP 92 501 - M1 non-flammable
- **TRADE NAME:** TS P perforated - TS NP non-perforated
- **MARKING:** CE
- **COLOURS:** Grey RAL 7030
- **MATERIAL:** PVC: Polyvinylchloride
- **LENGHT SUPPLIED:** 3 metres
- **PROTECTION DEGREE:** IP 20 (with lid installed)

Rigid PVC cable trays

Table of loads

Range	Width mm	Maximum load ⁽¹⁾ daN/m span 1.5 m
Cable trays	100	20
	200	24
TS P	300	33
TS NP	400	57
	500	57

⁽¹⁾ Permissible load at a maximum temperature of 40°C.
Deflexion: 1/200 at mid span.
For temperatures between +40°C and +50°C, the maximum span must be 1 metre and load divided by 2.



TS P Range

Perforated cable tray

Code	Description	W x H mm	PVC	Carton metres
MV 70 020	TS P cable tray	100 x 60	Grey RAL 7030	24
MV 70 021	TS P cable tray	200 x 60		12
MV 70 022	TS P cable tray	300 x 60		12
MV 70 023	TS P cable tray	400 x 100		6
MV 70 024	TS P cable tray	500 x 100		6

TS NP Range

Non-perforated cable tray

Code	Description	W x H mm	PVC	Carton metres
MV 70 040	TS NP cable tray	100 x 60	Grey RAL 7030	24
MV 70 041	TS NP cable tray	200 x 60		12
MV 70 042	TS NP cable tray	300 x 60		12
MV 70 043	TS NP cable tray	400 x 100		6
MV 70 044	TS NP cable tray	500 x 100		6

TS Range

Cable tray cover

Code	Description	Width mm	PVC	Carton metres
MV 70 000	TS cable tray cover	100	Grey RAL 7030	24
MV 70 001	TS cable tray cover	200		12
MV 70 002	TS cable tray cover	300		12
MV 70 003	TS cable tray cover	400		12
MV 70 004	TS cable tray cover	500		12

TS Range

Self-tapping screws for safety cover fixing

Code	Description	Carton Qty.
MV 66 630	Stainless steel self-tapping screws for CO 100-300	100
MV 66 631	Stainless steel self-tapping screws for CO 400-500	100

*Fixing cover vertically on edge

TS Range

Divider (fixing by RILSAN tie)

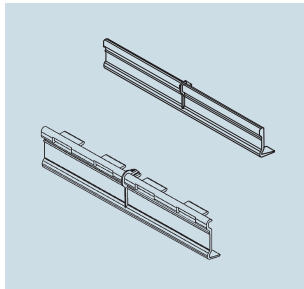
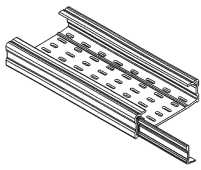
Code	Description	Height mm	PVC	Carton metres
MV 79 001	TS divider	60	Grey RAL 7030	24
MV 79 003	TS divider	100		24

Selection guide: page 124

Technical sheets: page 264

PVC cable tray systems, supports and fittings

Speed-lock coupler

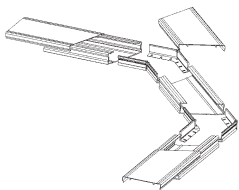


TS Range "Tandem System" Speed-lock coupler (boltless)

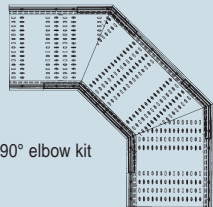
Code	Description	Height mm	Colour	Carton Qty.
MV 71 011	TS Speed-lock coupler	60	Grey RAL 7030	48
MV 71 013	TS Speed-lock coupler	100		24

Horizontal change in direction

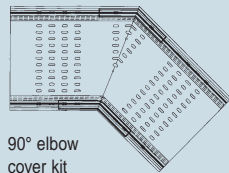
90° elbow



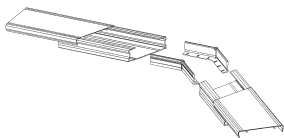
90° elbow kit



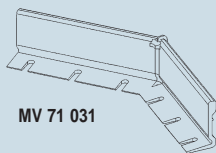
90° elbow cover kit



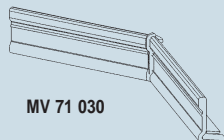
135° elbow



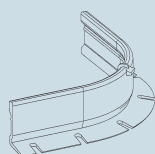
MV 71 031



MV 71 030



Tee



Selection guide: page 124

Technical sheets: page 267

TS Range

90° horizontal elbow kit

Code	Description	Width mm	Colour	Carton Qty.
MV 72 000	90° horizontal elbow kit	100 x 60	Grey RAL 7030	4
MV 72 001	90° horizontal elbow kit	200 x 60		4
MV 72 002	90° horizontal elbow kit	300 x 60		4
MV 72 003	90° horizontal elbow kit	400 x 100		1
MV 72 004	90° horizontal elbow kit	500 x 100		1

TS Range

90° horizontal elbow cover kit

Code	Description	Width mm	Colour	Carton Qty.
MV 72 010	90° horizontal elbow cover kit	100	Grey RAL 7030	4
MV 72 011	90° horizontal elbow cover kit	200		4
MV 72 012	90° horizontal elbow cover kit	300		4
MV 72 013	90° horizontal elbow cover kit	400		4
MV 72 014	90° horizontal elbow cover kit	500		4

TS Range

Oblique horizontal jointing piece for 90° or 135° horizontal elbow

Code	Description	Width mm	Colour	Carton Qty.
MV 71 030	Internal radius jointing	60	Grey RAL 7030	12
MV 71 031	Internal radius jointing	60		12
MV 71 033	Internal radius jointing	100		12
MV 71 034	Internal radius jointing	100		12

TS Range

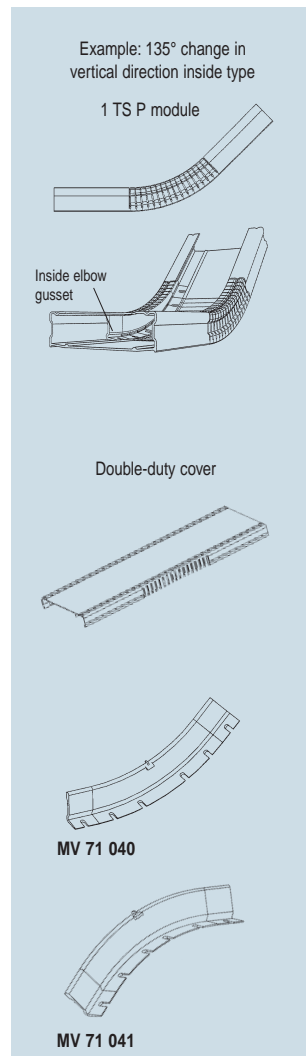
90° angled horizontal jointing piece for horizontal tee and horizontal cross

Code	Description	Width mm	Colour	Carton Qty.
MV 71 032	90° angled jointing flat piece	60	Grey RAL 7030	12
MV 71 035	90° angled jointing flat piece	100		12

Note: tee: order 2 90° angled couplings
crossover: order 4 90° angled couplings

TS RANGE

Vertical change in direction



TS Range

Double-duty perforated TS module base, for inside/outside elbows vertical changing levels

Code	Description	W x H mm	Colour	Carton Qty.
MV 74 000	TS P module	100 x 60	Grey RAL 7030	6
MV 74 001	TS P module	200 x 60		6
MV 74 002	TS P module	300 x 60		6
MV 74 003	TS P module	400 x 100		6
MV 74 004	TS P module	500 x 100		6

TS Range

Double-duty perforated TS cover, for inside/outside elbows vertical changing levels

Code	Description	W x H mm	Colour	Carton Qty.
MV 74 010	TS cover	100	Grey RAL 7030	6
MV 74 011	TS cover	200		6
MV 74 012	TS cover	300		6
MV 74 013	TS cover	400		6
MV 74 014	TS cover	500		6

TS Range

Inside riser gusset for 135° vertical changing level

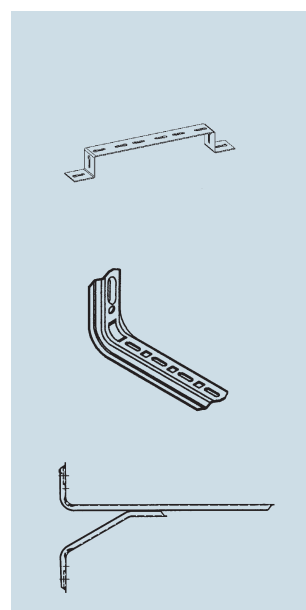
Code	Description	W x H mm	Colour	Carton Qty.
MV 71 040	TS inside riser gusset	60	Grey RAL 7030	12
MV 71 043	TS inside riser gusset	100		12

TS Range

Outside riser gusset for 135° vertical changing level

Code	Description	W x H mm	Colour	Carton Qty.
MV 71 041	TS outside riser gusset	60	Grey RAL 7030	12
MV 71 044	TS inside riser gusset	100		12

AISI 304 stainless steel supports



TS Range

AISI 304 stainless steel vertical fixing brackets

Code	Description	Length mm	Colour	Carton Qty.
MV 64 670	Vertical mounting bracket	100	AISI 304 Stainless steel	25
MV 64 671	Vertical mounting bracket	200		25
MV 64 672	Vertical mounting bracket	300		25
MV 64 673	Vertical mounting bracket	400		25
MV 64 674	Vertical mounting bracket	500		25

Fixing with bolts in PVC M 8 x 20 MV 66 712 or nylon 6 x 15 MV 66 802

TS Range

AISI 304 stainless steel OMEGA horizontal cantilever fixing brackets

Code	Description	Length mm	Colour	Carton Qty.
MV 60 600	OMEGA bracket	110	AISI 304 Stainless steel	50
MV 60 601	OMEGA bracket	210		50
MV 60 612	Reinforced OMEGA bracket	310		25
MV 60 613	Reinforced OMEGA bracket	410		25
MV 60 614	Reinforced OMEGA bracket	510		25

Cable trays fixing with nylon bolts 6 x 15 MV 66 802.

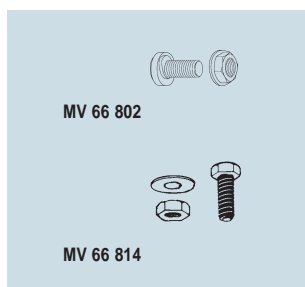
Table of loads

Range	Length mm	Maximum load daN/bracket
AISI 304	110	50
Stainless	210	50
Steel	310 rinf.	130
OMEGA	410 rinf.	130
Bracket	510 rinf.	130

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Bolts



Fixing bolts

Code	Description	Pack/ Carton Qty.
MV 66 802	M6 x 15 Self-locking lug	grey nylon 100/3000
MV 66 712	M8 x 20	grey PVC 100/3000
MV 66 814	TH 10x30	natural nylon 100
MV 66 621	TRCC 8 x 25	stainless steel 100
MV 66 821	TRCC 8 x 25	natural nylon 100

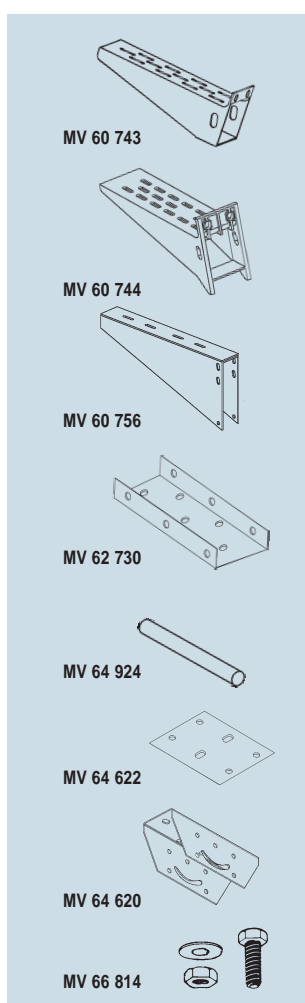
100 = 1 bag of 100 bolts

PVC cantilever brackets and pendants

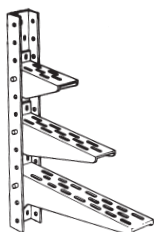
Table of loads

Range	Length mm	Maximum load daN/bracket
PVC	155	60
Bracket	250	100
	340	100
	450	70
	550	60

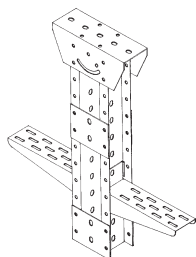
Deflection of 5 mm at end



Cantilever brackets



Pendants



PVC double-duty fixing bracket

Code	Description	W x H mm	PVC	Carton Qty.
MV 60 741	CS 144	155 x 70	Grey RAL 7030	50
MV 60 743	CS 244	250 x 80		50
MV 60 744	CS 340	340 x 80		40

PVC single-duty fixing bracket

Code	Description	W x H mm	PVC	Carton Qty.
MV 60 756	CS 450	450x250	Grey RAL 7030	10
MV 60 757	CS 550	550x250		10

*Please refer to Information guide.

PVC vertical channel

Code	Description	Length mm	PVC	Carton Qty.
MV 62 730	Vertical channel	250	Grey RAL 7030	50 pieces
MV 62 734	Vertical channel	2000		20 metres

Polyester bracket fixing rod

Code	Description	PVC	Carton Qty.
MV 64 924	Polyester bracket fixing rod	Ø 12 neutral	50

Assembly accessories for pendants

Code	Description	PVC	Carton Qty.
MV 64 622	AISI 304 stainless steel spacing plate	AISI 304 stainless steel	80
MV 64 620	AISI 304 Ceiling fixing plate		20
MV 66 814	TH 10x30 bolt		100

For assembling PVC suspensions, use TH 10x30 nylon bolts or TRCC 8x25 stainless steel bolts



The three guaranteed assurances of the PVC TS system

- PVC is extremely **resistant** in damp and corrosive areas (DIN 8061).
- PVC is a **non-metallic** material: all parts of the cable trays are protected. **Insulating**: there are no earthing problems.
- PVC is a material with flame spread grading classified **M1** (non-flammable) according to NFP 92-501.

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