PVC CABLE TRAY

PRODUCT TECHNICAL GUIDE



POWERED BY SPECIALISTS

legrand®

Global strength

built on local knowledge

Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development.

With an increasing investment in research and development (circa 5% of sales) and more than 4,000 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.

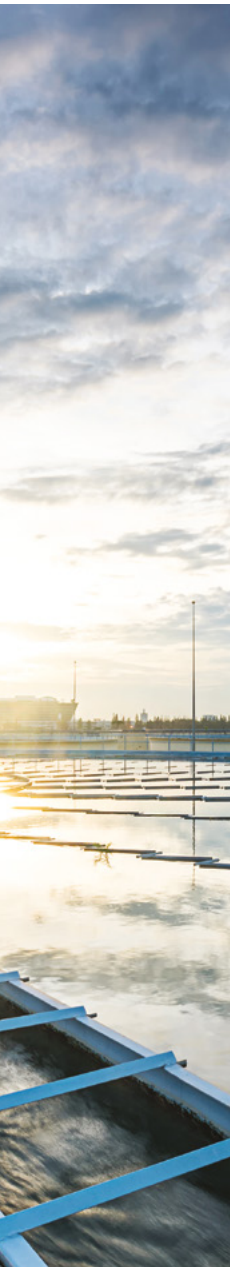


COMPLETE CABLE MANAGEMENT SOLUTIONS

Using its global strength and market leading position, Legrand has developed a complete range of cable management solutions, including:

- PVC cable tray
- Swifts cable ladder
- Swifts cable tray
- Salamandre distribution and lighting trunking
- Cablofil steel wire cable tray
- Floor systems - including powertrack, underfloor trunking, floor boxes, grommets and the Soluflex cavity floor system
- Perimeter systems











CONTENTS

INTRODUCTION

Features 02

Faster by Design 04

PRODUCT AND TECHNICAL INFORMATION

PVC cable tray 06

Covers and couplers 09

Fittings 10

Supports and accessories 12

Resistance to chemical agents 16

PVC CABLE TRAY

resistance to damp and corrosion

no thermal stress

THE IDEAL CHOICE FOR DAMP AND CORROSIVE ENVIRONMENTS

- Legrand PVC cable tray does not conduct electricity. There is therefore no earthing requirement.
- The operating temperature range is from -20°C to + 60°C.
- Conforms to the RoHS Directive.



EXCELLENT RESISTANCE

PVC is corrosion-free with excellent resistance to chemical agents and damp environments, giving it a long service life.

IMPACT RESISTANCE

It has high resistance of up to 20 J, depending on the size.

NON-FLAMMABLE, SELF-EXTINGUISHING

PVC is flame retardant and has excellent resistance to fire (Class M1).

EASY TO INSTALL

PVC cable tray is lightweight to handle and transport. It is easy to cut, perforate or join together, and causes little damage to cables or injury to hands.

A COMPLETE SYSTEM

Available in a standard or reinforced version with a perforated or unperforated base.





ECO - FRIENDLY

PVC is a 100% recyclable material, both physically and chemically.

The Legrand PVC cable tray range complies with the requirements of the RoHS Directive, which stipulates the elimination of several substances that are hazardous to the environment and to health.

PVC requires very little energy during its manufacture. The table below shows the overall energy balance (raw materials + energy) for PVC and other materials expressed in MJ per kg:

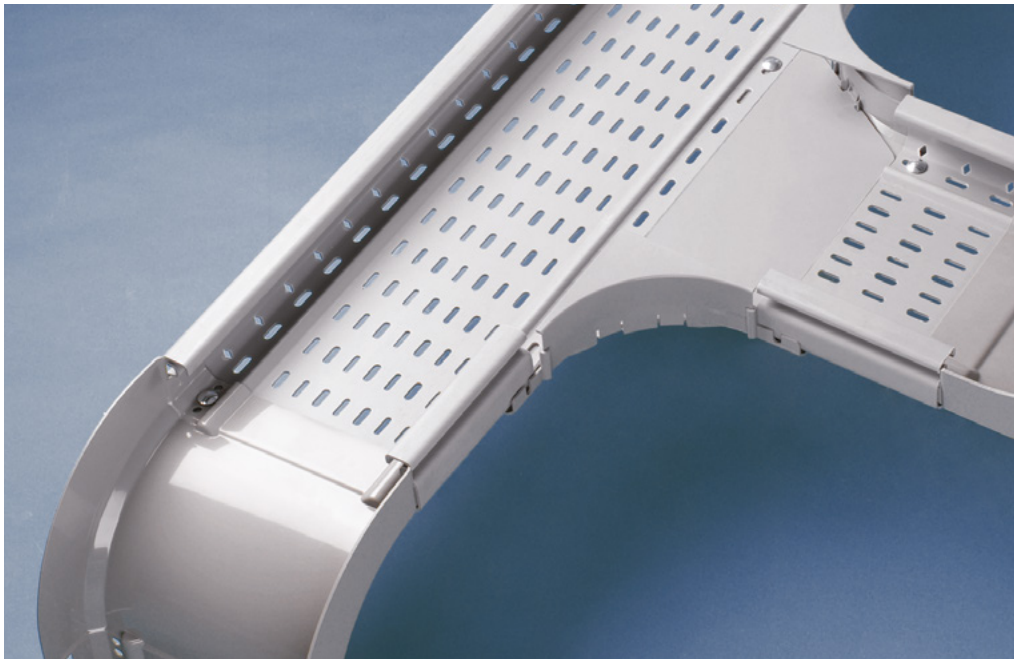
PVC 59	PP 73	PS 80	PET 84	Aluminium 200

PVC: Polyvinyl chloride, **PP:** Polypropylene, **PS:** Polystyrene, **PET:** Polyethylene terephthalate

COMPLETE RANGE OF INNOVATIVE ACCESSORIES

The thermoformed fittings with integrated couplers can be used to create specific configurations.

A consistent 150 mm radius of curvature helps prevent critical cables from being damaged and allows them to slide through the tray easily. The covers simply clip on, and lengths can be fixed to the wall or suspended from ceilings.





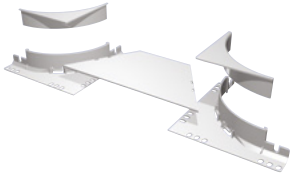
Flat 90° bends



Inside 90° risers



Outside 90° risers



Tee kits

PVC CABLE TRAY FASTER BY DESIGN



Three simple steps to better cable management...

We continually look for ways to improve our product ranges. In the case of cable management, every improvement we make has the installer in mind and is based around the three areas that make up our 'Faster by Design' ethos:

1 **EASIER** TO INSTALL

2 **FASTER** TO INSTALL

3 **FEWER** COMPONENTS

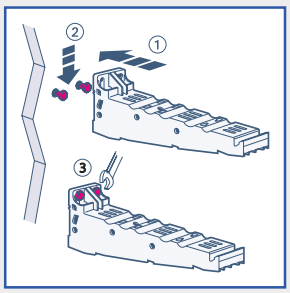
Our products are not only faster to install, they're also easier to handle and require less time on site to fit - reducing the total installed cost of your project.

1 EASIER TO INSTALL

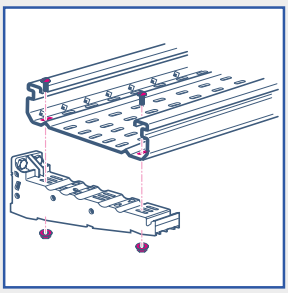
Multifuction brackets

Multifuction brackets can be used in a wide range of applications by simply changing the orientation of the bracket for wall or ceiling, or changing the fixing position to be fixed to channel. Applications include:

- Wall mounting
- Ceiling mounting
- Part of a wider support system



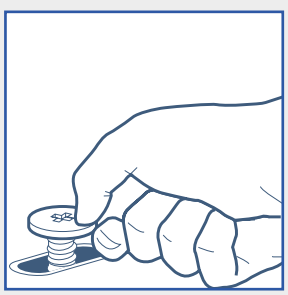
Process of fixing the multifunction bracket to a wall



Fixing a length to the multifunction bracket using rapid fit rivets

Rapid fix rivets

- Rapid fix rivets can be used to secure PVC tray to brackets without the need for any tools, just simply place and press the rivet and the tray is secured.
- The rivets have specifically designed fins for easier installation and strength.



Place the rivet

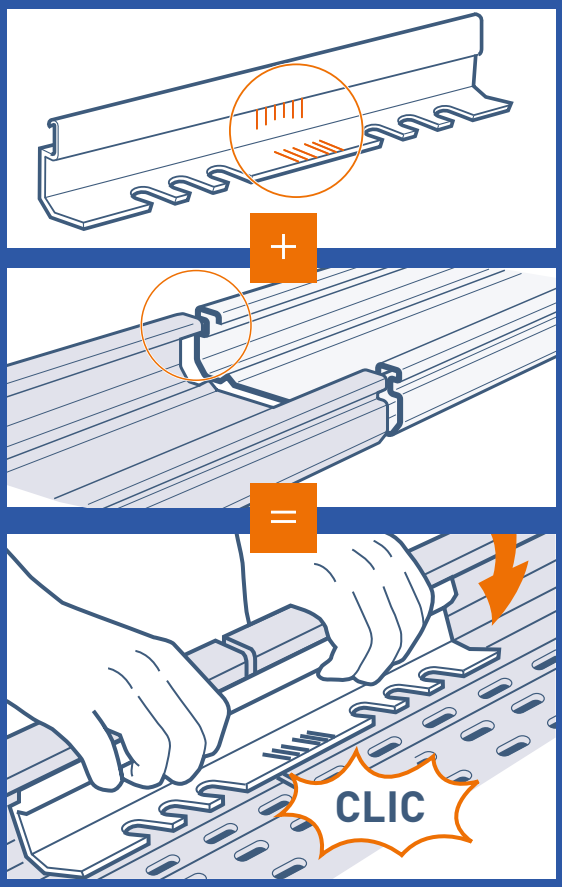


Press and it's fixed

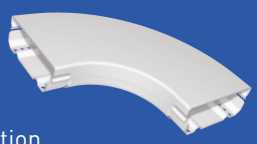
Features that simplify installation and save time

2 FASTER TO INSTALL

Coupler
Allows lengths to be clipped together without any additional fittings, making coupling quick and easy with no need for fasteners.



Clip on covers
Covers can simply be hooked and stored on the bracket during installation.



SIGNIFICANT ADVANTAGES

Optimised design of lengths:

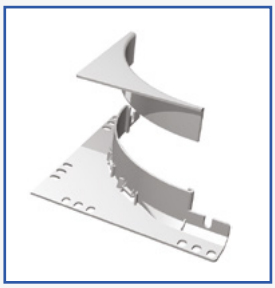
- Enhanced cabling capacity
- Time-saving as couplers and covers simply clip on
- High mechanical strength

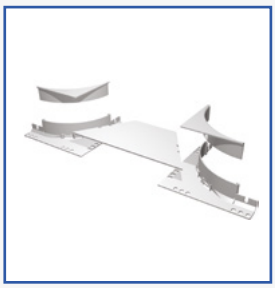
3 FEWER COMPONENTS

Fewer fittings
All part numbers now come with covers

No special tees required
Compact and easy to adapt tee kits allow for easier fitting on site

Built-in coupler
All thermoformed fittings have integrated couplers


Tee intersections


Tee kit

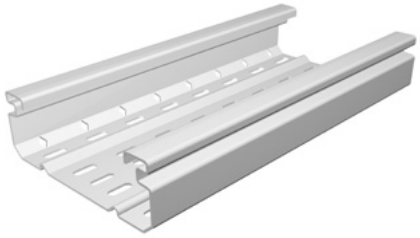
PVC cable tray

perforated tray

50 → 100 mm

75 → 600 mm

3 m



6379 11

Pack	Cat. Nos.	PVC cable tray Conform to BS EN 61537 Length 3 m **Width x Depth (mm)**	Width (mm)
6	6377 01	75 x 50	75
6	6377 11	100 x 50	100
6	6377 21	150 x 50	150
6	6377 31	200 x 50	200
6	6377 41	300 x 50	300
6	6377 51	400 x 50	400
6	6378 01	75 x 75	75
6	6378 11	100 x 75	100
6	6378 21	150 x 75	150
6	6378 31	200 x 75	200
6	6378 41	300 x 75	300
6	6378 51	400 x 75	400
6	6379 01	200 x 100	200
6	6379 11	300 x 100	300
6	6379 21	400 x 100	400
6	6379 31	500 x 100	500
6	6379 41	600 x 100	600

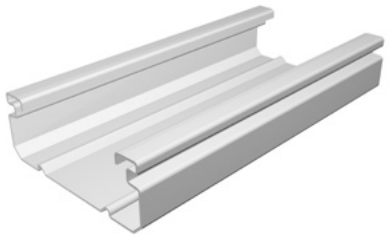
PVC cable tray

unperforated tray

50 → 100 mm

75 → 600 mm

3 m



6379 10

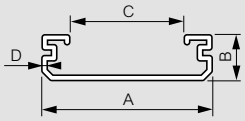
Pack	Cat. Nos.	PVC cable tray Conform to BS EN 61537 Length 3 m **Width x Depth (mm)**	Width (mm)
6	6377 00	75 x 50	75
6	6377 10	100 x 50	100
6	6377 20	150 x 50	150
6	6377 30	200 x 50	200
6	6377 40	300 x 50	300
6	6377 50	400 x 50	400
6	6378 00	75 x 75	75
6	6378 10	100 x 75	100
6	6378 20	150 x 75	150
6	6378 30	200 x 75	200
6	6378 40	300 x 75	300
6	6378 50	400 x 75	400
6	6379 00	200 x 100	200
6	6379 10	300 x 100	300
6	6379 20	400 x 100	400
6	6379 30	500 x 100	500
6	6379 40	600 x 100	600

PVC cable tray

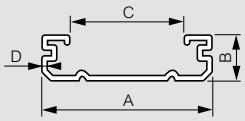
technical information

PVC perforated cable tray

Dimensions



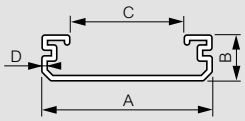
6377 01	75	50	32·4	2·3	2 862	3 000
6377 11	100	50	57	2·3	4 055	3 000
6377 21	150	50·2	106·6	2·6	6 366	3 000
6378 01	75	75	32	2·3	4 622	3 000
6378 11	100	75	57	2·3	6 440	3 000
6378 21	150	75·3	106·2	2·7	9 961	3 000



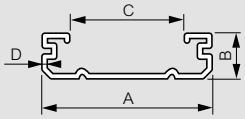
6377 31	200	50	136·6	2·5	7 934	3 000
6377 41	300	52	232·6	3·5	12 825	3 000
6377 51	400	53	330·6	4	17 821	3 000
6378 31	200	75	138·8	2·8	12 690	3 000
6378 41	300	77	234·4	3·8	19 601	3 000
6378 51	400	77·8	332·8	4·2	26 879	3 000
6379 01	200	100	130	3·8	16 979	3 000
6379 11	300	100·4	210	4	26 728	3 000
6379 21	400	101·4	300	4·5	36 468	3 000
6379 31	500	101·4	370	4·5	45 893	3 000
6379 41	600	102	470	4·8	55 206	3 000

PVC unperforated cable tray

Dimensions



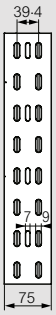
6377 00	75	50	32·4	2·3	2 862	3 000
6377 10	100	50	57	2·3	4 055	3 000
6377 20	150	50·2	106·6	2·6	6 366	3 000
6378 00	75	75	32	2·3	4 622	3 000
6378 10	100	75	57	2·3	6 440	3 000
6378 20	150	75·3	106·2	2·7	9 961	3 000



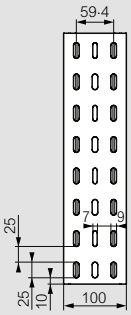
6377 30	200	50	136·6	2·5	7 934	3 000
6377 40	300	52	232·6	3·5	12 825	3 000
6377 50	400	53	330·6	4	17 821	3 000
6378 30	200	75	138·8	2·8	12 690	3 000
6378 40	300	77	234·4	3·8	19 601	3 000
6378 50	400	77·8	332·8	4·2	26 879	3 000
6379 00	200	100	130	3·8	16 979	3 000
6379 10	300	100·4	210	4	26 728	3 000
6379 20	400	101·4	300	4·5	36 468	3 000
6379 30	500	101·4	370	4·5	45 893	3 000
6379 40	600	102	470	4·8	55 206	3 000

Perforation details

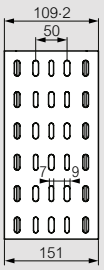
Width 75 mm



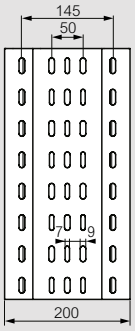
Width 100 mm



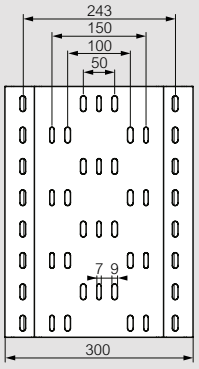
Width 150 mm



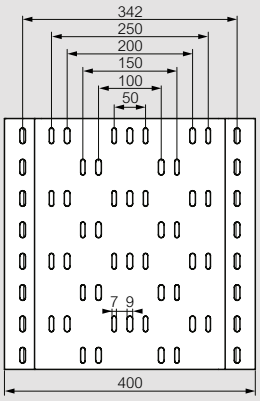
Width 200 mm



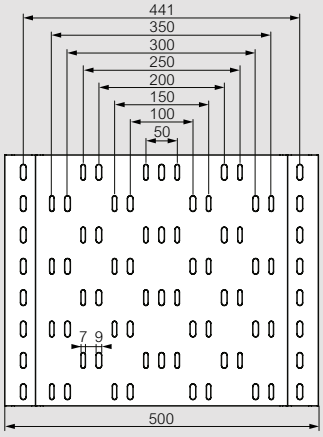
Width 300 mm



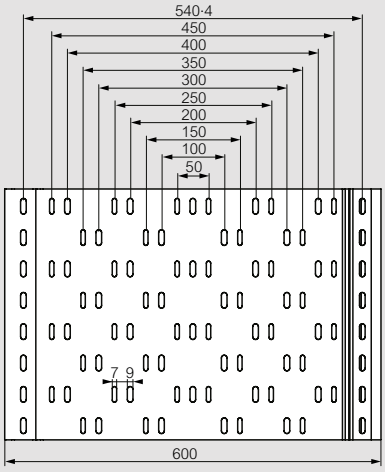
Width 400 mm



Width 500 mm



Width 600 mm



PVC cable tray

technical information (continued)

Cable loading information

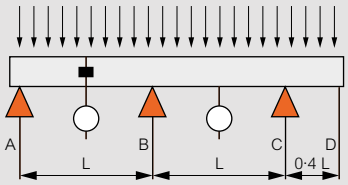
The table below gives safe working loads (SWL) in N/m.
SWL are acceptable up to 40 °C for spans of 1·5 m and 60 °C for spans of 1 m, on the European test standard

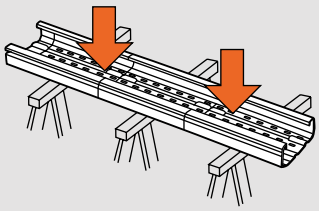
75	7	12	–
100	10	16	–
150	15·5	25	–
200	19·5	35	42
300	27	48	66
400	41	70	90
500	–	–	113
600	–	–	135·5

Safe working load test

The test for cable loading conforms to BS EN 61537 test type 1
The following conditions apply to the test as shown in diagram below

1. The cable tray is supported at 1·5 m spans and not fixed to supports during tests
2. The coupler joint is at the centre of support A - B
3. The fixing torque for coupler bolts is 2·5 N/m
4. The test load is a uniformed distributed load (UDL) over the test area of 2 spans and cantilever
5. The longitudinal deflection on a span is limited to the span length divided by 100
6. The transversal deflection reached in the centre of the cable tray bed is limited to bed width divided by 20





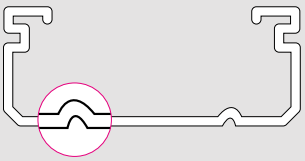
Design of the lengths

Width 75 to 150 mm



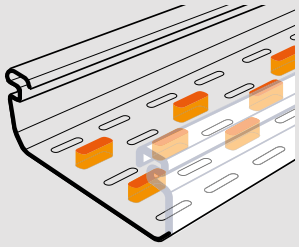
Totally flat profile, optimising the cabling capacity

Width 200 to 600 mm

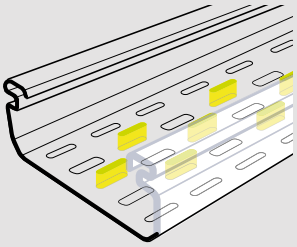


With 2 ribs on the base to take higher loads

Base perforations

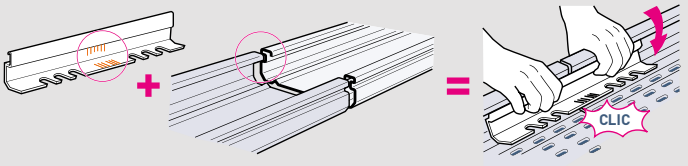


9 x 25 mm perforations for PVC screws - diameter 8 mm



7 x 25 mm perforations for PVC screws - diameter 6 mm

Clipping lengths together



Marking system for installing couplers according to temperature conditions (to enable the PVC to expand)

Resistance to impacts

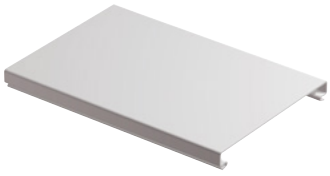
The products are tested at -5 °C temperature according to EN 61537 standard

75	5 J	5 J	-
100	5 J	10 J	-
150	10 J / 20 J[1]	10 J / 20 J[1]	-
200	10 J	20 J	20 J
300	10 J	20 J	20 J
400	10 J	20 J	20 J
500	-	-	20 J
600	-	-	20 J

1 : Unperforated

75 → 600 mm

3 m



6379 64



6377 91

Pack	Cat. Nos.	Covers
	PVC	**Width (mm)**
24	6377 60	75
24	6377 61	100
18	6377 62	150
12	6377 63	200
12	6377 64	300
12	6377 65	400
12	6379 63	500
12	6379 64	600

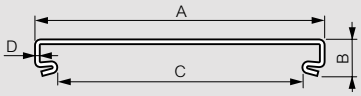
		Couplers
	PVC	**Couplers (mm)**
20	6377 90	For 75 to 150 x 50
20	6377 91	For 200 to 400 x 50
20	6378 90	For 75 to 150 x 75
20	6378 91	For 200 to 400 x 75
20	6379 90	For 200 to 600 x 100
		Hinged couplers (mm)
20	6377 93	For width 75 to 150
20	6379 93	For width 200 to 600

covers and couplers

technical information

Covers

Dimensions

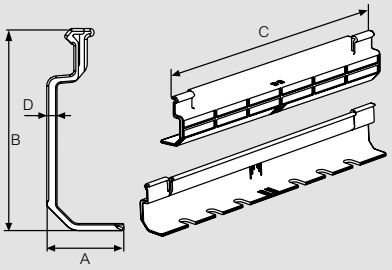


75	15·6	56·6	1·2	3 000
100	15·6	81·6	1·2	3 000
150	15·9	131·6	1·5	3 000
200	23·9	171·6	2	3 000
300	25·3	271·6	2·5	3 000
400	25·3	371·6	2·5	3 000
500	28·1	471·6	2·8	3 000
600	28·1	571·6	2·8	3 000

Couplers

Dimensions

Cat. Nos. 6377 90 and 6378 90

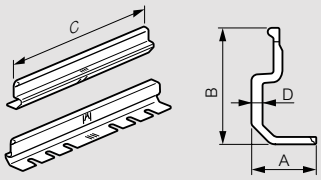


50	27	45·9	275	3·6
75	27	70·9	275	3·6

Fixing



Cat. Nos. 6377 91, 6378 91 and 6379 90

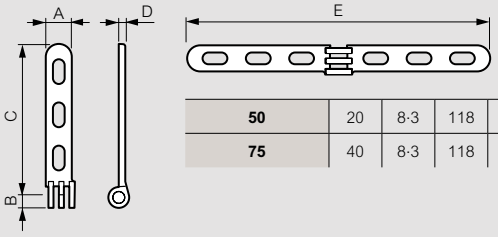


50	38·3	45·4	300	5
75	38·8	69·8	350	7·5
100	38·8	92·8	450	7·5

Fixing



Hinged Cat. Nos. 6377 93 and 6379 93



50	20	8·3	118	5	244·3
75	40	8·3	118	5	244·3

50 → 100 mm

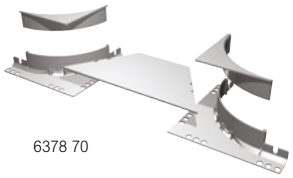
75 → 600 mm



6377 13



6378 60



6378 70

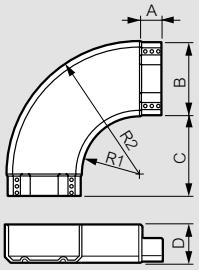
Pack	Cat. Nos.	**Flat 90° bends**
	PVC	Supplied with covers **Width x Depth (mm)**
4	6377 03	For 75 x 50
4	6377 13	For 100 x 50
4	6377 23	For 150 x 50
2	6377 33	For 200 x 50
2	6377 43	For 300 x 50
1	6377 53	For 400 x 50
4	6378 03	For 75 x 75
4	6378 13	For 100 x 75
4	6378 23	For 150 x 75
2	6378 33	For 200 x 75
2	6378 43	For 300 x 75
1	6378 53	For 400 x 75
1	6379 03	For 200 x 100
1	6379 13	For 300 x 100
1	6379 23	For 400 x 100
1	6379 33	For 500 x 100
1	6379 43	For 600 x 100

		Tee intersections
	PVC	**Width (mm)**
2	6378 60	For 75 and 50
2	6379 60	For 100

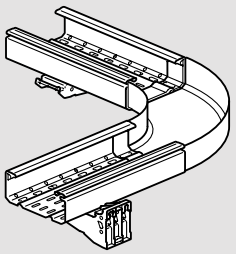
		Tee kits
	PVC	**Width x Depth (mm)**
4	6378 70	For 75 x 50/75
2	6378 71	For 100 x 50/75
2	6378 72	For 150 x 50/75
3	6378 73	For 200 x 50/75
1	6378 74	For 300 x 50/75
1	6378 75	For 400 x 50/75
1	6379 70	For 200 x 100
1	6379 71	For 300 x 100
1	6379 72	For 400 x 100
1	6379 73	For 500 x 100
1	6379 74	For 600 x 100

Flat 90° bends

Dimensions and fixing



Fixing

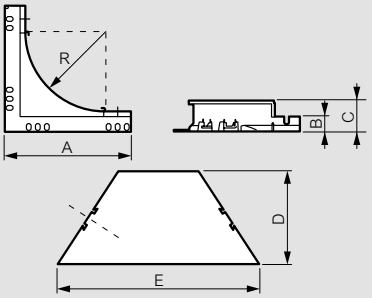


75	52	68	210	150	224
100	52	93	210	150	249
150	52	142	210	150	298
200	52	196	210	150	346
300	52	289	210	150	445
400	52	388	210	150	544
500	52	488	210	150	644
600	52	587	210	150	743

D = 50, 75 or 98 mm

Tee kits

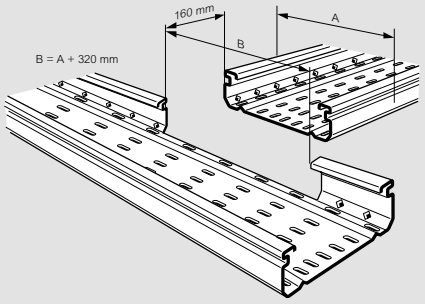
Dimensions and fixing



75	237	28	164	233	150
100	237	28	164	260	150
150	237	28	164	310	150
200	237	28	164	362	150
300	237	28	164	461	150
400	237	28	164	556	150
500	237	28	164	659	150
600	237	28	164	756	150

C = 53 for 50 and 75 mm depth trays
C = 78 for 100 mm depth trays

Installation



A = width of tray
B = required cut-out

50 → 100 mm

75 → 600 mm



6377 15



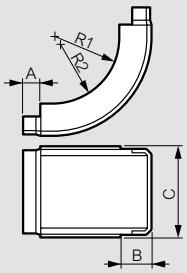
6377 17

Pack	Cat. Nos.	**Inside 90° risers**
	PVC	Supplied with covers **Width x Depth (mm)**
4	6377 05	For 75 x 50
4	6377 15	For 100 x 50
4	6377 25	For 150 x 50
2	6377 35	For 200 x 50
2	6377 45	For 300 x 50
1	6377 55	For 400 x 50
4	6378 05	For 75 x 75
4	6378 15	For 100 x 75
4	6378 25	For 150 x 75
2	6378 35	For 200 x 75
2	6378 45	For 300 x 75
1	6378 55	For 400 x 75
1	6379 05	For 200 x 100
1	6379 15	For 300 x 100
1	6379 25	For 400 x 100
1	6379 35	For 500 x 100
1	6379 45	For 600 x 100

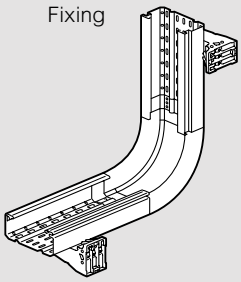
Pack	Cat. Nos.	**Outside 90° risers**
	PVC	Supplied with covers **Width x Depth (mm)**
4	6377 07	For 75 x 50
4	6377 17	For 100 x 50
4	6377 27	For 150 x 50
2	6377 37	For 200 x 50
2	6377 47	For 300 x 50
1	6377 57	For 400 x 50
4	6378 07	For 75 x 75
4	6378 17	For 100 x 75
4	6378 27	For 150 x 75
2	6378 37	For 200 x 75
2	6378 47	For 300 x 75
1	6378 57	For 400 x 75
1	6379 07	For 200 x 100
1	6379 17	For 300 x 100
1	6379 27	For 400 x 100
1	6379 37	For 500 x 100
1	6379 47	For 600 x 100

Inside 90° risers

Dimensions and fixing



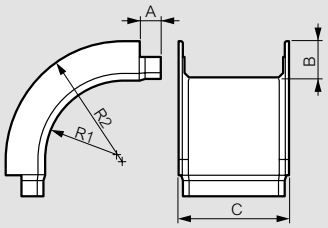
Fixing



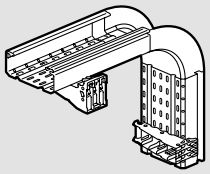
Width (mm)	A (mm)	C (mm)	R1 (mm)	R2 (mm)
75	52	68	150	200
100	52	93	150	200
150	52	142	150	200
200	52	190	150	200
300	52	289	150	200
400	52	388	150	200
500	52	488	150	200
600	52	587	150	200

Outside 90° risers

Dimensions and fixing



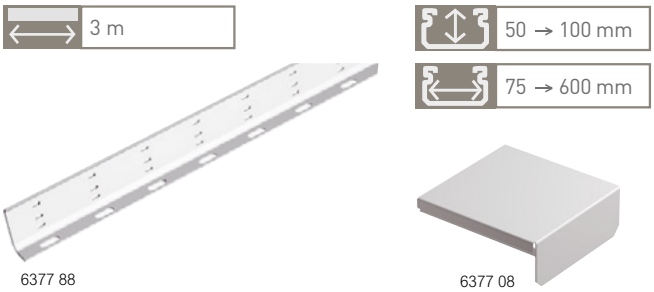
Fixing



Width (mm)	A (mm)	C (mm)	R1 (mm)	R2 (mm)
75	52	68	150	200
100	52	93	150	200
150	52	142	150	200
200	52	190	150	200
300	52	289	150	200
400	52	388	150	200
500	52	488	150	200
600	52	587	150	200

supports and accessories

technical information



6377 88

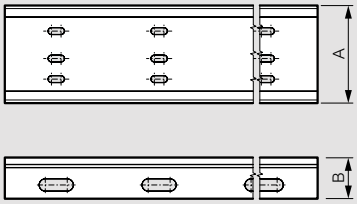
6377 08

Pack	Cat. Nos.	Dividers
	PVC	Depth (mm)
42	6377 88	50
30	6378 88	75
24	6379 88	100

Pack	Cat. Nos.	End caps
	PVC	Width x Depth (mm)
2	6377 08	For 75 x 50
2	6377 18	For 100 x 50
2	6377 28	For 150 x 50
2	6377 38	For 200 x 50
2	6377 48	For 300 x 50
2	6377 58	For 400 x 50
2	6378 08	For 75 x 75
2	6378 18	For 100 x 75
2	6378 28	For 150 x 75
2	6378 38	For 200 x 75
2	6378 48	For 300 x 75
2	6378 58	For 400 x 75
2	6379 08	For 200 x 100
2	6379 18	For 300 x 100
2	6379 28	For 400 x 100
2	6379 38	For 500 x 100
2	6379 48	For 600 x 100

Dividers

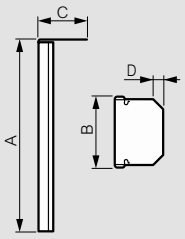
Dimensions



50	46·46	30	3 000
75	71·56	30	3 000
100	95·16	30	3 000

End caps

Dimensions



Depth 50 mm

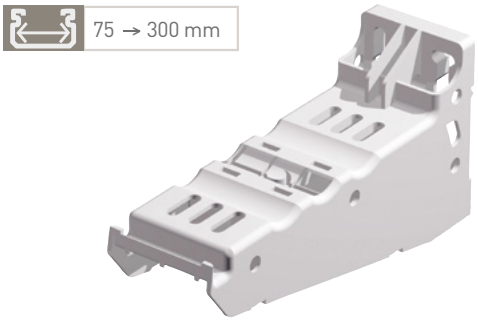
75	200	51	11
100	200	51	11
150	200	52	11
200	200	52	13
300	200	54	14
400	200	55	15

Depth 75 mm

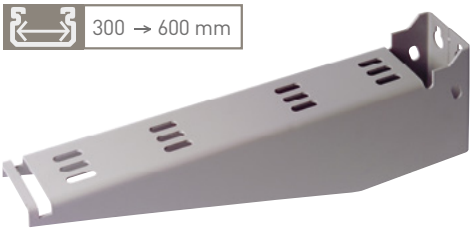
75	200	76	11
100	200	76	11
150	200	77	11
200	200	77	13
300	200	79	14
400	200	80	15

Depth 100 mm

200	200	102	15
300	200	104	15
400	200	104	15
500	200	104	15
300	200	105	16



6377 69



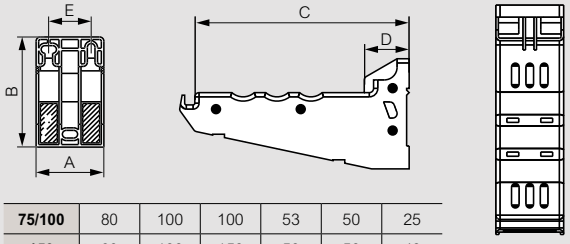
6379 78

Pack	Cat. Nos.	Cantilever arms - PVC
	PVC	Compatible with metal support **Width (mm)**
8	6377 66	For 75/100
6	6377 67	For 150
4	6377 68	For 200
4	6377 69	For 300

Pack	Plastic coated	Cantilever arms - Plastic coated
		Width (mm)
2	6379 78	For 300
2	6379 79	For 400
2	6379 80	For 500
2	6379 81	For 600

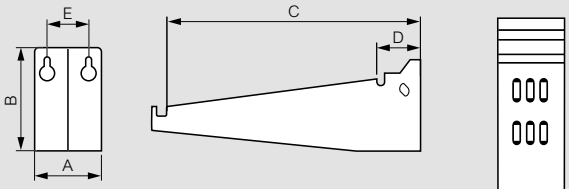
Cantilever arms

PVC dimensions and fixing information

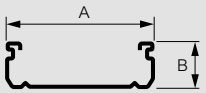


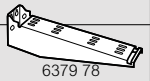
75/100	80	100	100	53	50	25
150	80	100	150	53	50	40
200	80	130	200	53	50	65
300	80	130	300	53	50	75

Plastic coated dimensions and fixing information

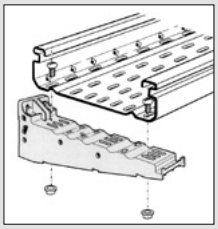


300	80	130	300	50	50	100
400	80	130	400	50	50	135
500	80	130	500	50	50	170
600	80	130	600	50	50	205

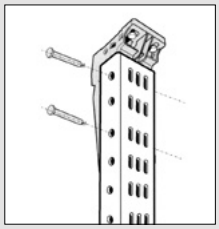


A x B (mm)		Load (N)	A x B (mm)		Load (N)
75 x 50		25	**300 x 50**		100
75 x 75	6377 66		**300 x 75**	6379 78	
100 x 50			**300 x 100**		
100 x 75			**400 x 50**		
100 x 50	6377 67	40	**400 x 75**	6379 79	135
100 x 75			**400 x 100**		
200 x 50					
200 x 75	6377 68	65	**500 x 100**	6379 80	170
200 x 100					
300 x 50					
300 x 75	6377 69	75	**600 x 100**	6379 81	205
300 x 100					

Wall mounting



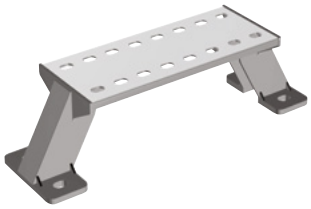
Ceiling installation for 200 and 300 mm widths only



75 → 600 mm



6377 75



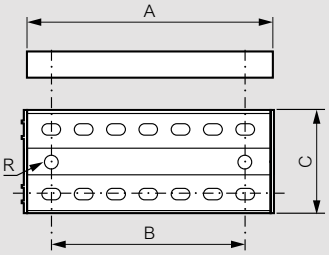
6377 85

Pack	Cat. Nos.	Trapeze hangers
	PVC	**Width (mm)**
8	6377 71	For 75/100
6	6377 72	For 150
4	6377 73	For 200
4	6377 74	For 300
4	6377 75	For 400
4	6379 76	For 500
4	6379 77	For 600

		Stand-off brackets
	PVC	**Width (mm)**
8	6377 81	For 75/100
6	6377 82	For 150
4	6377 83	For 200
4	6377 84	For 300
4	6377 85	For 400
4	6379 83	For 500
4	6379 84	For 600

Trapeze hangers

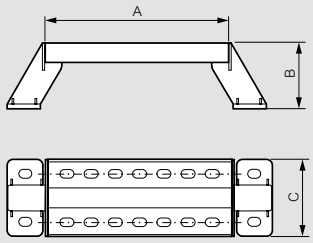
Dimensions



75/100	147	115	80	5	25
150	197	165	80	5	40
200	274	215	80	5	65
300	347	315	80	5	100
400	447	415	80	5	135
500	547	515	80	5	170
600	647	615	80	5	205

Stand-off brackets

Dimensions



75/100	100	75	80
150	150	75	80
200	200	75	80
300	300	75	80
400	400	75	80
500	500	75	80
600	600	75	80

2 m



6379 85



6379 86



6379 55



6379 54

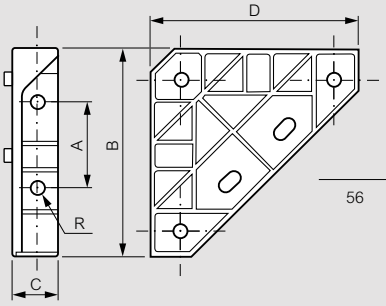
Pack	Cat. Nos. PVC	Cat. Nos. Plastic coated	Accessories
8	6379 55	-	Ceiling bracket
6	-	6379 85	Ceiling bracket
8	6379 50	6379 86	2 m pendant channels
100	6379 51	-	M8 fixing pin
50	-	6379 52	M8 fixing pin

		Fixings
		Fasteners
100	6379 53	PVC M8 x 20
100	6379 87	Stainless steel M8 x 20
		Rapid fix rivet
100	6379 54	Rivet

Accessories

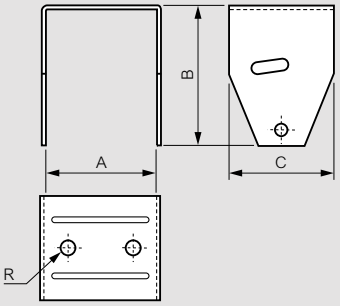
Ceiling bracket

PVC ceiling bracket Cat. No. 6379 55



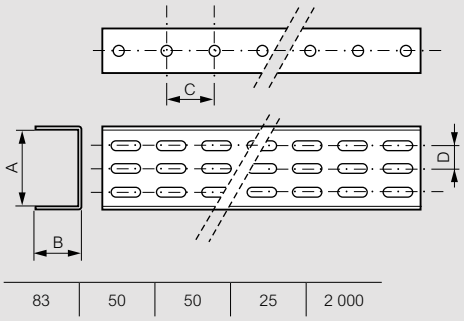
56	136	30	136	5

Plastic coated celing bracket Cat. No. 6379 85



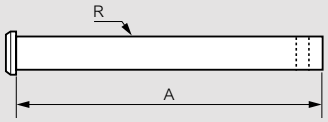
86·5	108	80	6·75

Pendant channel Cat. Nos. 6379 50 and 6379 86



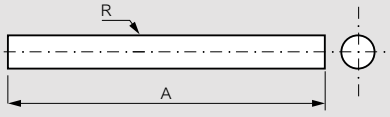
83	50	50	25	2 000

PVC M8 fixing pin Cat. No. 6379 51



107	5

Plastic coated M8 fixing pin Cat. No. 6379 52



100	5

PVC cable tray

resistance to chemical agents for PVC

The properties stated below are purely for technical information, being based on common experience as well as the average results obtained from tests carried out. They do not entail any responsibility on the part of the manufacturer.

Chemical agents	Concentration %	Temperature °C	PVC resistance[1]
Acetaldehyde	100	20	N
Acetaldehyde, water solution	40	40	M
Acetic acid, anhydride	100/100	20/60	N/N
Acetic acid, glacial	100/100	2 /40	M/N
Acetic acid, water solution	up to 25/up to 25 25/60/80	40/60 60/40	R/M R/M
Acetone	100	20	N
Acetone, water solution	trace	20	N
Acetylene gaseous, dry and moist	100	20	M
Acrylic-acid ethyl ester	100	20	N
Aluminium, all kinds, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Aluminium chloride, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Aluminium sulphate, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Ammonia, caustic	saturated/saturated	40/60	R/M
Ammonia, gaseous	100	60	R
Ammonia, liquid	100	20	M
Ammonium chloride, water solution	dilute/dilute	40/60	R/M
Ammonium nitrate, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Ammonium sulphate, water solution	dilute/dilute/saturated (k)	40/60/60	R/R/R
Amyl alcohol	96	20	M
Aniline, pure	100	20	N
Aniline, water solution	saturated	20	N
Aqua regia (hydrochloric + nitric acid)	normal service conc.	20	M
Art. Fertiliser salts, water solution	saturated (k)	60	R
Beer	–	20	R
Benzaldehyde	0·1	60	N
Benzene	100	20	N
Benzoic acid, water solution	any	20	R
Bleach, 12 1/2 active Cl	service conc./service conc.	40/60	R/M
Borax, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/M
Boric acid, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/M
Bromium, liquid	100	20	N
Buladiene	100	20	R
Butane, gaseous and liquid	100	20	R
Butanol	100	20	R
Butanol, water solution	any	60	M
Butyl, acetate	100	20	N
Butylene, liquid	100	20	R
Butyric acid	conc.	20	N
Calcium chloride, water solution	dilute/saturated (k)	40/60	R/M
Calcium nitrate, water solution	50	40	R
Carbonide (urea), water solution	up to 10/up to 10/33	40/60/60	R/M/R
Carbon dioxide, dry	100	60	R
Carbon dioxide, moist	any	40	R
Carbon dioxide, water solution at 9 bar («Carbonic acid»)	saturated	20	R

Chemical agents	Concentration %	Temperature °C	PVC resistance[1]
Carbon disulphide	100	20	M
Carbon tetrachloride	100/100	20/60	N/N
Caustic soda solution (soda lime, sodium)	up to 40/ up to 40/50	40/60/60	R/M/R
Chloramine, water solution	dilute	20	R
Chloric acid, water solution	1/1	40/60	R/R
Chlorine, gaseous, dry	100	20	M
Chlorine, gaseous, moist	0·5/1·0	20/20	R/M
Chlorine water	saturated	20	M
Chloroacetic acid (moni)	100/100	40/60	R/M
Chloroform	100	20	N
Chlorosulphonic acid	100	20	M
Chromic acid/sulphate acid/water	50/15/35	15/40	R
Chromic acid, water solution	80/80	20/60	R/M
Citric acid, water solution	up to 10/up to 10/saturated (k)	40/60/60	R/M/R
Copper sulphate, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Cresol, water solution	up to 90	45	R
Crolonaldehyde	100	20	N
Cyclohexanol	100	20	N
Cyclohexanone	100	20	N
Dextrin, water solution	saturated/18	20/60	R/M
Dichromate sulphuric acid (cleaning agent)	normal/service conc.	20/50	M/N
Diesel oil	100	20	R
Dimethylamine	100	30	M
Ethereal oils	100	60	R
Ethyl acetate	100	20	N
Ethylalcohol, water solution	any/96	20/60	R/M
Ethyl ether	100	20	N
Ethylene, gaseous + liquid	100	20	R
Ethylene oxide	100	20	N
Fatty acids (veg & anim.)	100	60	R
Ferric chloride, water solution	up to 10/up to 10/saturated (k)	40/60/60	M/R/R
Formaldehyde, water solution	up to 10/up to 10/40	40/60/60	R/M/R
Formic acid	100/100	20/60	M/R
Formic acid, water solution	up to 50	40	M/R
Fruit juices	–	20	N
Glycerol, water solution	any	60	N
Glycol, water solution	10 - 100	20 - 60	N
Glycocoll, water solution	10	40	N
Glucose, water solution	saturated	20	M
Grape sugar, water solution	saturated (k)/saturated (k)	20/60	N/M
n - Heptane	100	20	N
n - Hexane	100	20	N
Hydrobromic acid, water solution	up to 10/up to 10	40/60	N/M
Hydrochloric acid, water solution	up to 30/up to 30	40/60 over 30/over 30	N/M N/N

1 : N = Non-resistant R = Resistant M = Marginally resistant

PVC cable tray

resistance to chemical agents for PVC (continued)

The properties stated below are purely for technical information, being based on common experience as well as the average results obtained from tests carried out. They do not entail any responsibility on the part of the manufacturer.

Chemical agents	Concentration %	Temperature °C	PVC resistance[1]
Hydrogen chloride gas, dry + moist	any	20/60	N
Hydrogen peroxide, water solution	up to 30/up to 30	20/50	N/N
Hydrogen sulphide, dry	100	60	N
Hydrogen sulphide, water solution	saturated (v)/saturated (v)	40/60	N/M
Hydroxylamine sulphate, water solution	up to 12	35	N
Iodine, tincture	services conc	20	R
Lead acetate, water solution	saturated (v)/dilute dilute/saturated (k)	50/40 60/60	R/R M/R
Magnesium chloride, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Magnesium sulphate, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Maleic acid, water solution	saturated (k)/saturated (k)	40/60	R/M
Methyl alcohol, methanol	100/100	60/60	R/M
Methyl ethyl ketone, MEK	100	20	N/M
Methylamine, water solution	32	20	M
Methylene chloride	100	20	R
Molasses	normal	20	R
Nickel sulphate, water solution	dilute/dilute/saturated (k)	40/60/60	R/R/R
Nitric acid, water solution	up to 50 / 98	50/20	M/N
Nitric oxide	highly conc./highly conc.	20/60	M/N
Oils, mineral (fuel, motor, lube)	100/100	20/60	R/R
Oxalic acid, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Ozone	100	20	R
Petrol (gasoline)	100/100	20/60	R/R
Petrol (gasoline)/benzene mixture	from 80/20	20	R
Petroleum (crude oil)	100	20	R
Phenol, water solution	up to 90	45	M
Phenylhydrazine	100	20	N
Phosgene, gaseous	100/100	20/60	R/M
Phosgene, liquid	100	20	N
Phosphoric acid, water solution	up to 30/up to 30/40 80/80/95	40/60/60 20/60/60	R/M/R R/R/R
Phosphorus pentoxide	100	20	R
Phosphorus trichloride	100	60	N
Photographic developer	service conc.	40	R
Photographic fixer	service conc.	40	R
Picric acid, water solution	1	20	R
Potash lime	up to 40/up to/50 - 60	40/60/60	R/M/R
Polassium bromide, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Potassium carbonate, water solution	saturated (k)	60	R
Potassium chloride, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Potassium dichromate, water solution	40	20	R
Potassium ferricyanide and ferrocyanide, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R

Chemical agents	Concentration %	Temperature °C	PVC resistance[1]
Potassium nitrate, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Potassium perchlorate, water solution	1/1	40/60	R/M
Potassium permaganate, water solution	up to 18	40	R
Potassium persulphate, water solution	dilute/dilute saturated (k)/saturated (k)	40/60 40/60	R/M R/M
Propane, gaseous	100	20	R
Propane, liquid	100	20	R
Pyridine	100	20	N
Seawater	/	40/60	R/M
Silicic acid, water solution	any	60	R
Silver nitrate, water solution	up to 8/up to 8	40/60	R/M
Soap solution in water (soap suds)	conc./conc.	20/60	R/M
Sodium benzoate, water solution	up to 10	40	R
Sodium bisulphite, water solution	dilute/dilute/saturated (k)	40/60/60	R/M/R
Sodium carbonate, water solution (soda)	dilute/dilute/saturated (k)	40/60/60	R/M/R
Sodium chlorate, water solution	up to 10/up to 10/saturated (k)	40/60/60	R/M/R
Sodium chloride, water solution (common salt)	dilute/dilute/saturated (k)	40/60/60	R/M/R
Sodium chloride, water solution	dilute/dilute	20/60	M/R
Sodium hypochlorite, water solution	dilute	20	R
Starch, water solution	any/any	40/60	R/M
Stearic acid	100	60	M
Sulphur dioxide	100/100	10/60	M/R
Sulphur dioxide, dry	any	60	R
Sulphur dioxide, moist + water solution	50/any	50/60	R/R
Sulphuric acid, water solution	up to 40/up to 40 70/70 80-90/98/98	40/60 20/60 40/20/60	M/R M/R M/R
Sulphuric/nitric acid mixture	50/50 50/50	20/40	M/R
Tallow	100	20	R
Tetraethyl lead	100	20	R
Tetrahydrofuran	100	20	N
Toluene (tolual)	100	20	N
Transformer oil	100	60	R
Triethanolamine	100	20	N
Urine	normal	40	R
Vinegar	commercial/grade	50/60	R/M
Vinyl acetate, liquid	100	20	N
Vinyl chloride, gaseous + liquid	100	20	N
Water (not ag. Dest)	100/100	40/60	R/M
Whiskey and all other spirits	service conc.	20	R
Xylene (dimethylbenzene, xylol)	100	20	N
Zinc chloride, water solution	dilute/saturated (k)	60/60	M/R

1 : N = Non-resistant R = Resistant M = Marginally resistant

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