Basor Non-Metallic Cable Trays

Basorplast BPE PVC Cable Tray
Basorplast BPI PVC Cable Tray
Fibertrav EFV Fiberglass Cable Tray

basor
ELECTRIC

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BASORPLAST BPE AND BPI

BPE for Exterior Applications

BPI for Interior Applications

Basorplast is a PVC cable management providing a high quality, non-metallic pathway for power or low voltage cables. PVC cable management is a viable alternative to metallic cable pathway where shock hazard, wet, salty and aggressive chemical conditions exists. Solid and ventilated (slotted) tray options, as well as PVC covers, hardware and support accessories are available to meet a multitude of applications.

PERFORMANCE

Basorplast cable trays have a wide temperature usage rating of -40˚F to 140˚F conditions and exhibit excellent impact resistance, creating a wide range of exterior and indoor application possibilities. The PVC material used is also approved as “non-propagating component” for interior applications meeting UL 94-VO flammability standards in multiple tests.

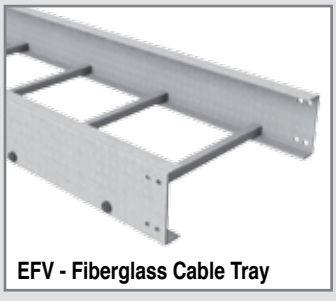
SUPPORT

Basorplast can handle power, data and low voltage cabling with loads and spans as described in our Safe Working Load tables on pages 3 and 17. We offer a series of PVC supports for ceiling, walls and floors that are rated for indoor use (PVC) or exterior use (PVCM1 UV).

FABRICATION

Basorplast trays and covers can be cut to length with a standard saw, with a wood cutting blade. Multiple accessories are available for bends and turns and elevation changes, including non-metallic splicing hardware.

FIBERTRAV EFV



EFV - Fiberglass Cable Tray

Rated for conditions of -50˚F to 300˚F, UV exposure and extreme chemical resistance, Fibertrav EFV can support control and power cabling in the most aggressive chemical and corrosive environments. Fibertrav EFV is a NEMA compliant system of ladder trays, bends, turns, supports and hardware to complete any installation.

BASORPLAST BPE

Basorplast BPE is a tough cable tray that is specifically engineered to handle **exterior environments**. The PVC material is formulated to withstand UV exposure for the life of the installation. Its solid wall construction is available in ventilated (slotted) or solid tray styles with covers, accessories and supports to match. Basorplast BPE is available in a light grey finish (RAL 7035). Basorplast trays combined with covers, offer your cabling installation the ultimate in protection.

Use with PVCM1 UV designated supports.

UL 568/CSA C22.2 No. 126.2-02

APPLICATIONS

- Chemical Processing Facilities
- Manufacturing Facilities
- Commercial Buildings
- Solar Installations
- Rail and Transportation Corridors
- Marinas and Port Facilities
- Rooftop Cable Distribution
- Tunnels and Manholes
- Food Processing Plants
- Waste Water Facilities

COMBUSTIBILITY OF CABLE TRAY ASSEMBLIES					
MODEL DESIGNATION	Sample No.	Span Length (ft)	Load Before Destruction (lbs)	Destructive Load (lbs)	+ Calculated Load Rating (lbs/ft)
BPE-P 60x100	1	9'7"	50.5	60.6	3.5
BPE-P 60x150	1	9'7"	40.4	50.5	2.8
BPE-P 60x200	1	9'7"	181.8	191.9	12.7
BPE-P 100x200	1	9'7"	313.1	323.2	21.8
BPE-P 100x300	1	9'7"	535.3	545.4	37.3
BPE-P 100x400	1	9'7"	767.6	777.7	53.4
BPE-C 60x100	1	9'7"	30.3	40.4	2.1
BPE-C 60x150	1	9'7"	50.5	60.6	3.5
BPE-C 60x200	1	9'7"	181.8	191.9	12.7
BPE-C 100x200	1	9'7"	494.9	505	34.4
BPE-C 100x300	1	9'7"	595.9	606	41.5
BPE-C 100x400	1	9'7"	939.3	949.4	65.4

SAFE WORKING LOAD		
MODEL (HxB)	d = 1,5 m & T = 40ºC d = 1 m & T = 60ºC	
	CTA lbs/ft	CTA kg/m
BPE-P 60x100	14.0	20.8
BPE-P 60x150	14.0	20.8
BPE-P 60x200	14.0	20.8
BPE-P 60x300	14.0	20.8
BPE-P 100x200	80.0	119
BPE-P 100x300	80.0	119
BPE-P 100x400	80.0	119
BPE-P 100x600	80.0	119
BPE-C 60x100	16.1	10.9
BPE-C 60x150	16.1	10.9
BPE-C 60x200	16.1	10.9
BPE-C 60x300	16.1	10.9
BPE-C 100x200	81.4	54.9
BPE-C 100x300	81.4	54.9
BPE-C 100x400	81.4	54.9
BPE-C 100x600	81.4	54.9

TRAY CAPACITY					
WIDTH		H60 - 2.3" SIDEWALL		H100 - 4" SIDEWALL	
mm	inch	cm^2	in^2	cm^2	in^2
100	4''	52	8.06	-	-
150	6''	80	12.4	-	-
200	8''	101	15.7	175	27.1
300	12''	152	23.6	263	40.8
400	16''	-	-	354	54.8
600	24''	-	-	539	83.5

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BASORPLAST BPE

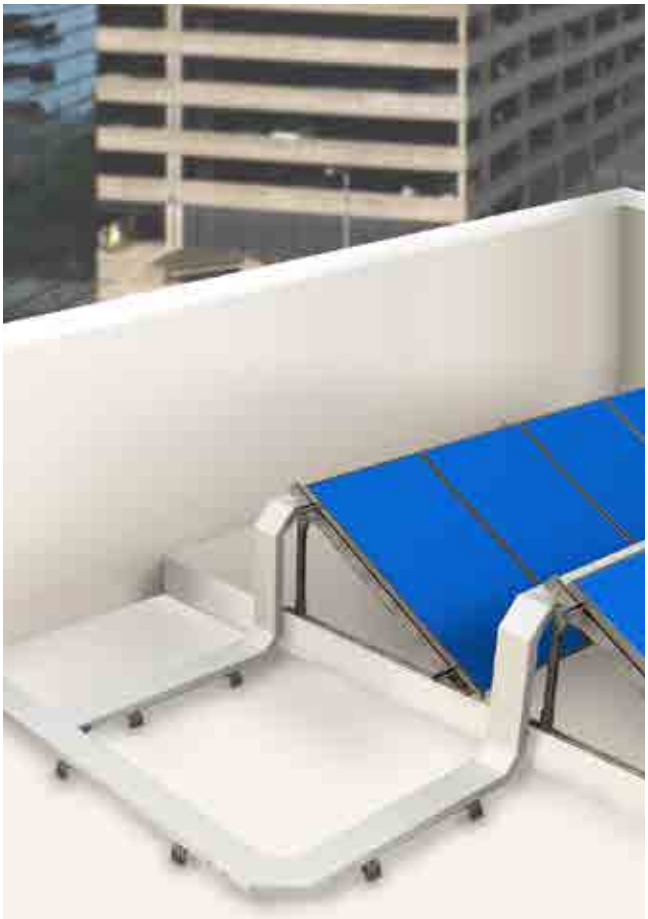
EXTERIOR APPLICATIONS

Oil Refineries and Chemical Processing

Rooftop HVAC Installations

Building Utilities

Transportation



Rooftop Solar Installations

Water Treatment Plants

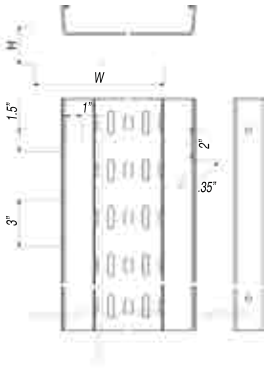
BPE-P H60 - 2" PERFORATED CABLE TRAY

drawn in inches

L = 10ft (3m)

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/m
BPE-P 60X100	4"	100	2"	60	2/10070	1.61	0.73
BPE-P 60X150	6"	150	2"	60	2/10071	2.16	0.98
BPE-P 60X200	8"	200	2"	60	2/10072	3.20	1.45
BPE-P 60X300	12"	300	2"	60	2/10073	5.16	2.34

2 JUBPE 60 (2/10084)



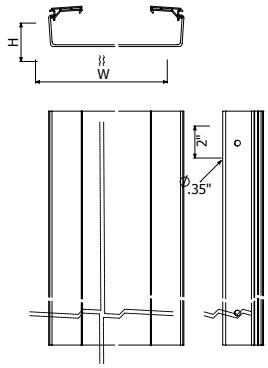
BPE-C H60 - 2" SOLID CABLE TRAY

drawn in inches

L = 10ft (3m)

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/m
BPE-C 60X100	4"	100	2"	60	2/10062	1.70	0.77
BPE-C 60X150	6"	150	2"	60	2/10063	2.27	1.03
BPE-C 60X200	8"	200	2"	60	2/10064	3.40	1.54
BPE-C 60X300	12"	300	2"	60	2/10065	5.47	2.48

2 JUBPE 60 (2/10084)



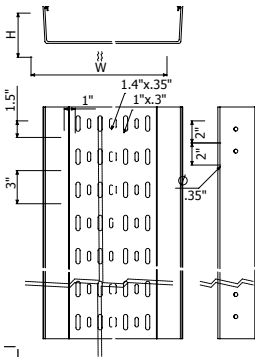
BPE-P H100 - 4" PERFORATED CABLE TRAY

drawn in inches

L = 10ft (3m)

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/m
BPE-P 100X200	8"	200	4"	100	2/10074	4.96	2.25
BPE-P 100X300	12"	300	4"	100	2/10075	8.0	3.63
BPE-P 100X400	16"	400	4"	100	2/10076	9.48	4.30
BPE-P 100X600	24"	600	4"	100	2/10077	14.11	6.40

2 JUBPE H100 (2/10085)



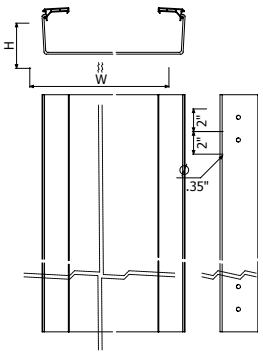
BPE-C H100 - 4" SOLID CABLE TRAY

drawn in inches

L = 10ft (3m)

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/m
BPE-C 100X200	8"	200	4"	100	2/10066	5.25	2.38
BPE-C 100X300	12"	300	4"	100	2/10067	7.61	3.45
BPE-C 100X400	16"	400	4"	100	2/10068	10.01	4.54
BPE-C 100X600	24"	600	4"	100	2/10069	14.82	6.72

2 JUBPE 100 (2/10085)



Basorplast splices sold separately. See pages 12 and 13.

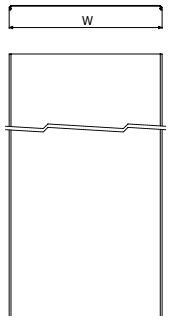
TBPE - COVER

drawn in inches

L = 10ft (3m)

DESCRIPTION	W		PVCM1 UV		
	in	mm	REF.	lbs each	kg/m
TBPE 100	4"	100	2/10078	0.82	0.37
TBPE 150	6"	150	2/10079	1.10	0.50
TBPE 200	8"	200	2/10080	1.70	0.77
TBPE 300	12"	300	2/10081	2.43	1.10
TBPE 400	16"	400	2/10082	3.37	1.53
TBPE 600	24"	600	2/10083	4.63	2.10

T BPE 600

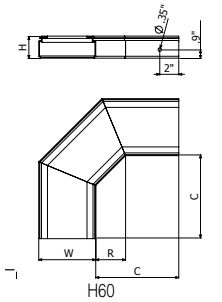


CPBPE - HORIZONTAL 90° ELBOW

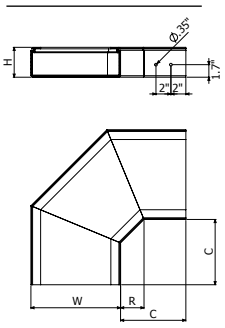
drawn in inches

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/ud
CPBPE 60X100	4"	100	2"	60	2/10089	0.88	0.40
CPBPE 60X150	6"	150	2"	60	2/10090	1.19	0.54
CPBPE 60X200	8"	200	2"	60	2/10091	2.01	0.91
CPBPE 60X300	12"	300	2"	60	2/10092	3.55	1.61
CPBPE 100X200	8"	200	4"	100	2/10093	2.73	1.24
CPBPE 100X300	12"	300	4"	100	2/10094	4.72	2.14
CPBPE 100X400	16"	400	4"	100	2/10095	7.21	3.27
CPBPE 100X600	24"	600	4"	100	2/10096	8.99	4.08

2 JUBPE 60 (2/10084) + 4/100 B2-P (2/10017) - 2 JUBPE 100 (2/10085) + 8/100 B2-P (2/10017)



H60



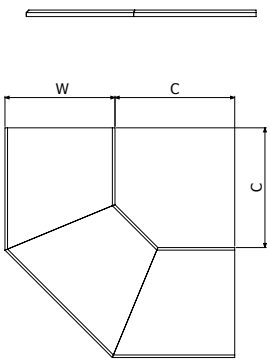
H100

TCPBPE - HORIZONTAL 90° ELBOW COVER

drawn in inches

DESCRIPTION	W		PVCM1 UV		
	in	mm	REF.	lbs each	kg/ud
TCPBPE 100	4"	100	2/10097	0.40	0.18
TCPBPE 150	6"	150	2/10098	0.57	0.26
TCPBPE 200	8"	200	2/10099	0.95	0.43
TCPBPE 300	12"	300	2/10100	1.57	0.71
TCPBPE 400	16"	400	2/10101	2.47	1.12
TCPBPE 600	24"	600	2/10102	4.28	1.94

TCPBPE 600

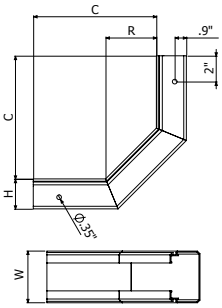


CCBPE - VERTICAL 90° INSIDE ELBOW

drawn in inches

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/ud
CCBPE 60X100	4"	100	2"	60	2/10103	0.86	0.39
CCBPE 60X150	6"	150	2"	60	2/10104	1.08	0.49
CCBPE 60X200	8"	200	2"	60	2/10105	1.72	0.78
CCBPE 60X300	12"	300	2"	60	2/10106	2.62	1.19
CCBPE100X200	8"	200	4"	100	2/10107	3.02	1.37
CCBPE 100X300	12"	300	4"	100	2/10108	4.37	1.98
CCBPE 100X400	16"	400	4"	100	2/10109	5.62	2.55
CCBPE 100X600	24"	600	4"	100	2/10110	7.12	3.23

2 JU H60 BPE (2/10084) + 4/100 B2-P (2/10017) - 2 JU H100 BPE (2/10085) + 8/100 B2-P (2/10017)



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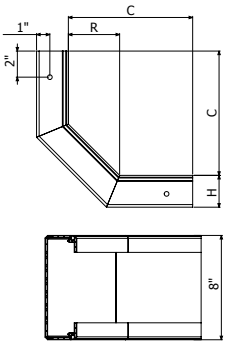


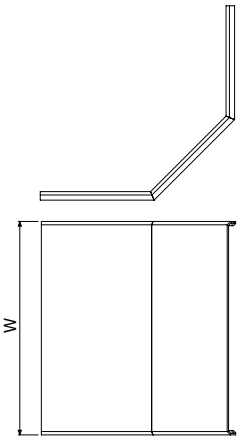
H100

TCCBPE - VERTICAL 90° INSIDE ELBOW COVER

drawn in inches

DESCRIPTION	W		PVCM1 UV		
	in	mm	REF.	lbs each	kg/ud
TCCBPE 60X100	4"	100	2/10111	0.40	0.18
TCCBPE 60X150	6"	150	2/10112	0.53	0.24
TCCBPE 60X200	8"	200	2/10113	0.82	0.37
TCCBPE 60X300	12"	300	2/10114	1.15	0.52
TCCBPE 100X200	8"	200	2/10115	1.23	0.56
TCCBPE 100X300	12"	300	2/10116	1.34	0.61
TCCBPE 100X400	16"	400	2/10117	1.92	0.87
TCCBPE 100X600	24"	600	2/10118	2.29	1.04

TCCBPE 100X600

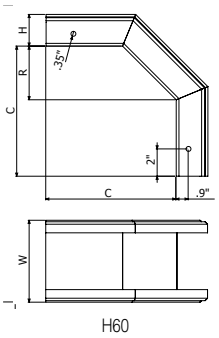


CXBPE - VERTICAL 90° OUTSIDE ELBOW

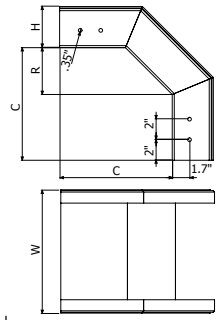
drawn in inches

DESCRIPTION	W		H		PVCM1 UV		
	in	mm	in	mm	REF.	lbs each	kg/ud
CXBPE 60X100	4"	100	2"	60	2/10119	0.86	0.39
CXBPE 60X150	6"	150	2"	60	2/10120	1.08	0.49
CXBPE 60X200	8"	200	2"	60	2/10121	1.72	0.78
CXBPE 60X300	12"	300	2"	60	2/10122	2.62	1.19
CXBPE 100X200	8"	200	4"	100	2/10123	3.02	1.37
CXBPE 100X300	12"	300	4"	100	2/10124	4.37	1.98
CXBPE 100X400	16"	400	4"	100	2/10125	5.62	2.55
CXBPE 100X600	24"	600	4"	100	2/10126	7.12	3.23

2 JUBPE 60 (2/10084) + 4/100 B2-P (2/10017) - 2 JUBPE 100 (2/10085) + 8/100 B2-P (2/10017)



H60



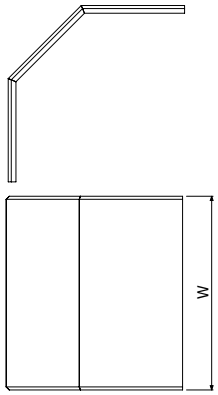
H100

TCXBPE - VERTICAL 90° OUTSIDE ELBOW COVER

drawn in inches

DESCRIPTION	W		PVCM1 UV		
	in	mm	REF.	lbs each	kg/ud
TXBPE 60X100	4"	100	2/10127	0.49	0.22
TXBPE 60X150	6"	150	2/10128	0.66	0.30
TXBPE 60X200	8"	200	2/10129	1.08	0.49
TXBPE 60X300	12"	300	2/10130	1.43	0.65
TXBPE 100X200	8"	200	2/10131	1.65	0.75
TXBPE 100X300	12"	300	2/10132	1.81	0.82
TXBPE 100X400	16"	400	2/10133	2.58	1.17
TXBPE 100X600	24"	600	2/10134	3.06	1.39

TCXBPE 100X600



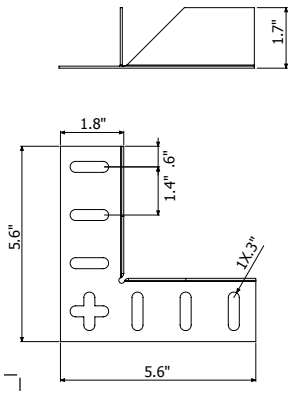
PDBPE - JUNCTION SPLICE

drawn in inches

DESCRIPTION	W		H		GSP 7035		
	in	mm	in	mm	REF.	lbs each	kg/ud
PDBPE 60/100	4"	100	2"	60	2/10127	0.49	0.22

4/100 B2-P (2/10017)

□60 □100

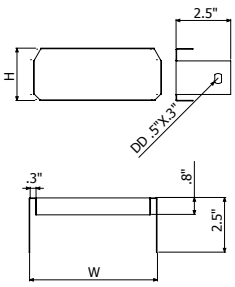


TFBPE - BLIND END PLATE

drawn in inches

DESCRIPTION	W		H		GSP 7035		
	in	mm	in	mm	REF.	lbs each	kg/ud
TFBPE 60X100	4"	100	2"	60	2/10136	0.20	0.09
TFBPE 60X150	6"	150	2"	60	2/10137	0.29	0.13
TFBPE 60X200	8"	200	2"	60	2/10138	0.33	0.15
TFBPE 60X300	12"	300	2"	60	2/10139	0.46	0.21
TFBPE 100X200	8"	200	4"	100	2/10140	0.53	0.24
TFBPE 100X300	12"	300	4"	100	2/10141	0.68	0.31
TFBPE 100X400	16"	400	4"	100	2/10142	0.88	0.40
TFBPE 100X600	24"	600	4"	100	2/10143	1.21	0.55

2/100 B2-P (2/10017)

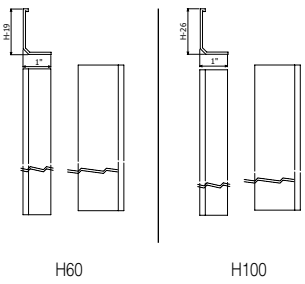


PSBPE - DIVIDER

drawn in inches

DESCRIPTION	H		PVCM1 UV		
	in	mm	REF.	lbs each	kg/m
PSBPE 60	2"	60	2/10144	0.20	0.09
PSBPE 100	4"	100	2/10145	0.29	0.13

4/100 B2-P (2/10017)

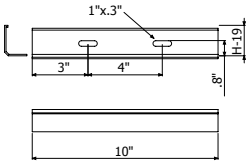


JUBPE - SPLICE PLATE

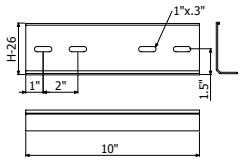
drawn in inches

DESCRIPTION	H		PVCM1 UV		
	in	mm	REF.	lbs each	kg/ud
JUBPE 60	2"	60	2/10084	0.11	0.05
JUBPE 100	4"	100	2/10085	0.20	0.09

2 x JUBPE 60 --> 4/100 B2-P (2/10017)
2 x JUBPE 100 --> 8/100 B2-P (2/10017)



BPI JU 60



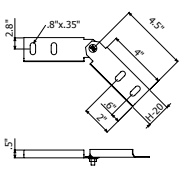
BPI JU 100

JUBPE-A - HINGED SPLICE

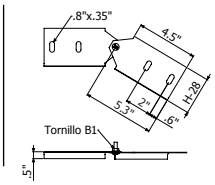
drawn in inches

DESCRIPTION	H		i304		
	in	mm	REF.	lbs each	kg/ud
JUBPE-A 60	2"	60	2/5036	0.20	0.09
JUBPE-A 100	4"	100	2/5037	0.35	0.16

2 x JUBPE-A --> 8/100 B2-P (2/10017)



JUBPE-A 60



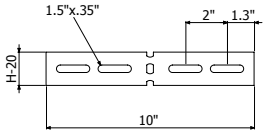
JUBPE-A 100

JUBPE-B - HORIZONTAL ANGLE SPLICE

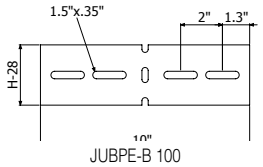
drawn in inches

DESCRIPTION	H		i304		
	in	mm	REF.	lbs each	kg/ud
JUBPE-B 60	2 2/5"	60	2/3520	0.29	0.13
JUBPE-B 100	4"	100	2/5038	0.49	0.22

2 x JUBPE-B --> B2-P (2/10017)



JUBPE-B 60

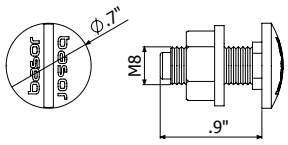


JUBPE-B 100

B2-P - NON-METALLIC BOLT/NUT SET

drawn in inches

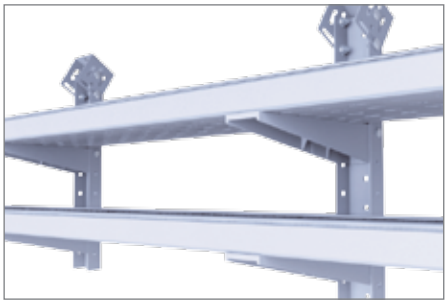
DESCRIPTION	PVCM1 UV			
	Pack Qty.	REF.	lbs each	kg/ud
PACK 100 B2-P	100	2/10017	0.88	0.40



BASORPLAST BPE SUPPORTS

Use Basorplast PVCM1 UV supports for floors, walls and ceiling to complete your installation in exterior locations. These supports are formulated from the same non-flame propagating PVC material as our tray to resist weathering and have excellent resistance to UV exposure. These supports can be used for tray runs along exterior walls, on rooftops and in marinas. Also included, is 304L stainless steel attachment hardware to complete your assembly.

PSHG + SHG
Page 14



BPE + KSHGR + PSHGR
Pages 6 and 15

PSHG + SHG
Page 14

BPE + SVG
Pages 6 and 15

BPE + SVG
Pages 6 and 15

BPE + SVG
Pages 6 and 14

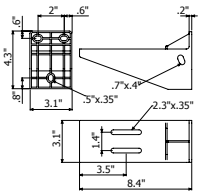
BPE SUPPORTS

SHG - WALL SUPPORT

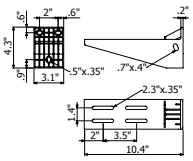
drawn in inches

PVCM10V

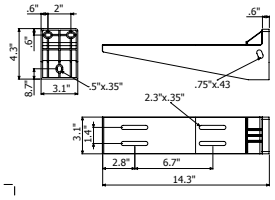
DESCRIPTION	W		40°C	104°F	60°C	140°F	PVCM1 UV use with BPE		
	in	mm	CTA (lbs)	CTA (kg)	CTA (lbs)	CTA (kg)	REF.	lbs each	kg/ud
SHG 100	4"	100	198.42	90	99.21	45	2/10011	0.42	0.19
SHG 150	6"	150	231.49	105	115.74	52.5	2/10012	0.60	0.27
SHG 200	8"	200	264.56	120	132.28	60	2/10013	0.75	0.34
SHG 300	12"	300	286.60	130	143.3	65	2/10014	1.19	0.54
SHG 400	16"	400	485.02	220	242.51	110	2/10015	2.09	0.95
SHG 600	24"	600	396.83	180	198.42	90	2/10016	2.43	1.10



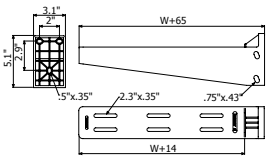
SHG150



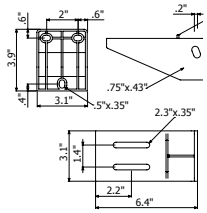
SHG200



SHG300



SHG 400/600



SHG100

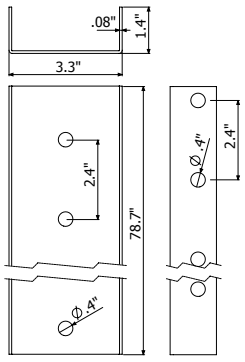
PSHG - RAIL

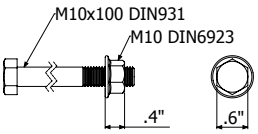
drawn in inches

PAS SHG

DESCRIPTION	GSP/i304		
	REF.	lbs each	kg/ud
PSHG	2/7203	5.05	2.29
PAS SHG	2/7228	0.24	0.11

1 CP SHG i304 (2/7228)
1 M10x100 DIN 931 + 1 M10 DIN6923





KSHGR + PSHGR - PENDANT HANGER AND PENDANT RAIL SUPPORT

drawn in inches

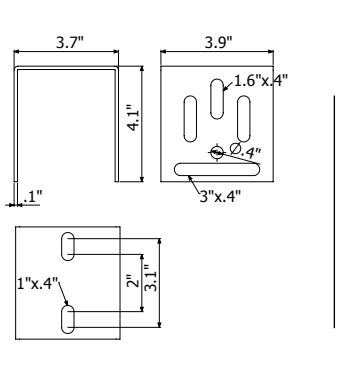
KSHGR

PSHGR

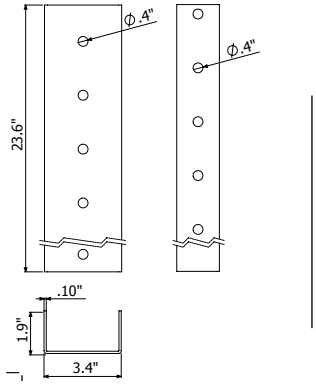
PAS SHG

DESCRIPTION	GSP/i304		
	REF.	lbs each	kg/ud
KSHGR	2/7403	1.34	0.61
PSHGR	2/7404	4.52	2.05
PAS SHG	2/7228	0.24	0.11

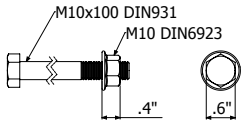
PSHGR --> KSHGR 4XB2 i304
SHG 100~300 --> KSHGR 1XP SHG i304
SHG 400~600 --> KSHGR 2XP SHG i304



KSHGR



PSHGR



PAS SHG

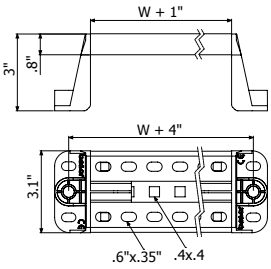
SVG - TRAPEZE/FLOOR SUPPORT

drawn in inches

PVCM1 UV

DESCRIPTION	W		CTA		PVCM1 UV use with BPE		
	in	mm	lb	kg	REF.	lbs each	kg/ud
SVG 100	4"	100	846	384	2/10050	0.51	0.23
SVG 150	6"	150	846	384	2/10051	0.57	0.26
SVG 200	8"	200	846	384	2/10052	0.62	0.28
SVG 300	12"	300	450	204	2/10053	0.73	0.33
SVG 400	16"	400	263	120	2/10054	0.84	0.38
SVG 600	24"	600	132	60	2/10055	1.06	0.48

BPI ---> SVG: 2/100 x M8 PVC



BASORPLAST
BPI

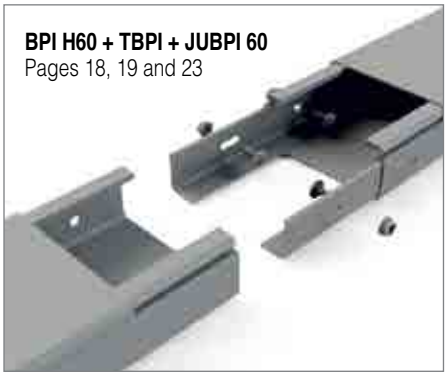
Basorplast BPI is suited for **interior installations** or where the cable pathway is not exposed to UV light. Trays are constructed with a hollow wall design to reduce the overall tray weight, yet keep it strong enough to support cabling loads. All trays are available in ventilated (slotted) and solid wall styles. Basorplast BPI is only available in a medium gray (RAL 7030) finish, and protects cables while providing a smooth, professional looking installation.

Use with PVC designated supports.

APPLICATIONS

- Data Complexes
- Office Buildings
- Wash Down Areas
- Food Processing
- Open Office Environment
- Schools
- MRI Facilities
- Parking Structures
- Tunnels and Manholes

BPI H60 + TBPI + JUBPI 60
Pages 18, 19 and 23

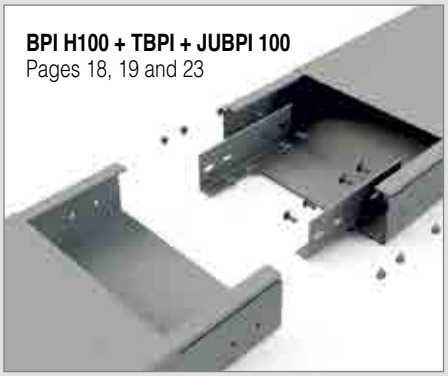


BPI H60 + TBPI + CPBPI + TCPBPI
Pages 18, 19 and 20

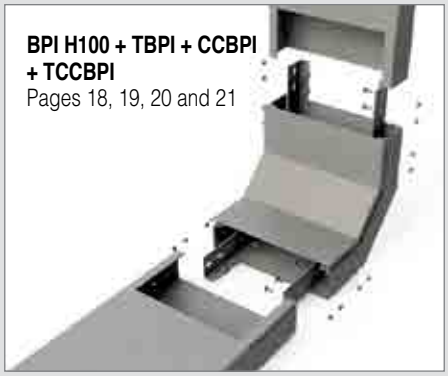
TRAY CAPACITY					
W		H60 (2 1/3")		H100 (4")	
mm	inch	cm^2	in^2	cm^2	in^2
100	4"	52	8.06	-	-
150	6"	80	12.4	-	-
200	8"	93	14.4	169	26.2
300	12"	143	22.2	259	40.1
400	16"	-	-	349	54.1
600	24"	-	-	529	82.0

SAFE WORKING LOAD		
MODEL (HxB)	d = 1,5 m & T = 40ºC d = 1 m & T = 60ºC	
	CTA lbs/ft	CTA kg/m
60x100	15.5	23
60x150	18.9	28
60x200	26.3	39
60x300	30.3	45
100x200	53.1	79
100x300	61.9	92
100x400	67.9	101
100x600	79.3	118

BPI H100 + TBPI + JUBPI 100
Pages 18, 19 and 23



BPI H100 + TBPI + CCBPI + TCCBPI
Pages 18, 19, 20 and 21



BPI H100 + BIK10
Pages 18 and 19

BPI-P H60 - 2" PERFORATED CABLE TRAY

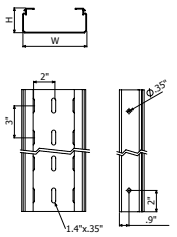
drawn in inches

L = 10ft (3m)
W 100/150

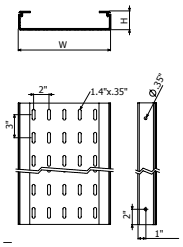
L = 10ft (3m)
W 200/300

DESCRIPTION	W		H		PVC		
	in	mm	in	mm	REF.	lbs each	kg/m
B/P 60X100	4"	100	2"	60	2/1162	1.61	0.73
B/P 60X150	6"	150	2"	60	2/1163	2.16	0.98
B/P 60X200	8"	200	2"	60	2/1164	2.45	1.11
B/P 60X300	12"	300	2"	60	2/1165	3.57	1.62

2 JUBPI 60 (2/2061)



B 100/150



B 200/300

BPI-C H60 - 2" SOLID CABLE TRAY

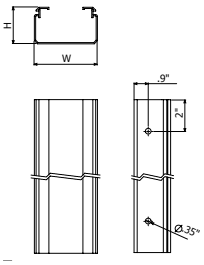
drawn in inches

L = 10ft (3m)
W 100/150

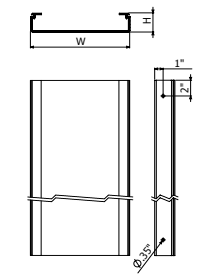
L = 10ft (3m)
W 200/300

DESCRIPTION	W		H		PVC		
	in	mm	in	mm	REF.	lbs each	kg/m
B/C BPI 60X100	4"	100	2"	60	2/1156	1.70	0.77
B/C BPI 60X150	6"	150	2"	60	2/1157	2.27	1.03
B/C BPI 60X200	8"	200	2"	60	2/1158	2.58	1.17
B/C BPI 60X300	12"	300	2"	60	2/1159	3.75	1.70

2 JUBPI 60 (2/2061)



B 100/150



B 200/300

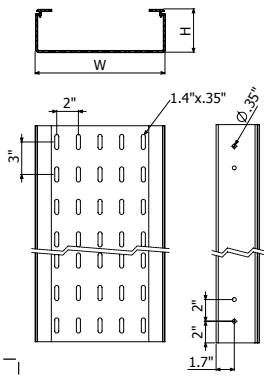
BPI-P H100 - 4" PERFORATED CABLE TRAY

drawn in inches

L = 10ft (3m)

DESCRIPTION	W		H		PVC		
	in	mm	in	mm	REF.	lbs each	kg/m
B/P BPI 100X200	8"	200	4"	100	2/4898	3.22	1.46
B/P BPI 100X300	12"	300	4"	100	2/4964	4.06	1.84
B/P BPI 100X400	16"	400	4"	100	2/1166	5.51	2.50
B/P BPI 100X600	24"	600	4"	100	2/1167	9.41	4.27

2 JUBPI 100 (2/2062)



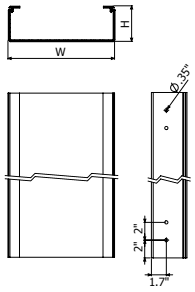
BPI-C H100 - 4" SOLID CABLE TRAY

drawn in inches

L = 10ft (3m)

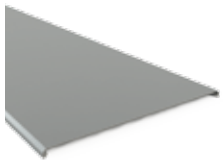
DESCRIPTION	W		H		PVC		
	in	mm	in	mm	REF.	lbs each	kg/m
B/C BPI 100X200	8"	200	4"	100	2/5091	3.40	1.54
B/C BPI 100X300	12"	300	4"	100	2/5092	4.28	1.94
B/C BPI 100X400	16"	400	4"	100	2/1160	5.82	2.64
B/C BPI 100X600	24"	600	4"	100	2/1161	9.19	4.17

2 JUBPI 100 (2/2062)



TBPI - COVER

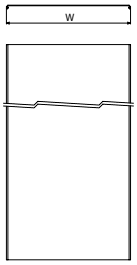
drawn in inches



L = 10ft (3m)

DESCRIPTION	W		PVC		
	in	mm	REF.	lbs each	kg/m
TBPI 100	4"	100	2/1185	0.82	0.37
TBPI 150	6"	150	2/1186	1.10	0.50
TBPI 200	8"	200	2/1187	1.70	0.77
TBPI 300	12"	300	2/1188	2.43	1.10
TBPI 400	16"	400	2/1189	3.37	1.53
TBPI 600	24"	600	2/1190	4.63	2.10

TBPI 600

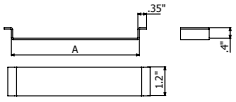


BIK10 - CHANNEL BRACE

drawn in inches

IK10

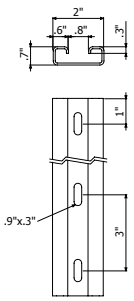
DESCRIPTION	A		T		Mod.	AL		
	in	mm	in	mm	HxB	REF.	lbs each	kg/ud
BIK10 60X100	2"	53	0.06"	1.5	60X100	2/7063	0.02	0.01
BIK10 60X150	3.75"	95	0.06"	1.5	60X150	2/7064	0.04	0.02
BIK10 60X200 y 100X200	5.5"	140	0.06"	1.5	60X200 & 100X200	2/7065	0.07	0.03
BIK10 60X300	8.89"	226	0.06"	1.5	60X300	2/7066	0.09	0.04
BIK10 100X300	9.25"	235	0.06"	1.5	100X300	2/7067	0.09	0.04
BIK10 100X400	12.5"	317	0.08"	2	100X400	2/7068	0.11	0.05
BIK10 100X600	19.75"	502	0.08"	2	100X600	2/7069	0.35	0.16



RA50 - SUPPORT BRACKET

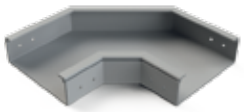
drawn in inches

DESCRIPTION	PVC		
	REF.	lbs each	kg/m
RA50	2/6357	0.73	0.33



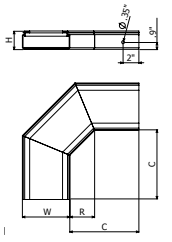
CPBPI - HORIZONTAL 90°ELBOW

drawn in inches

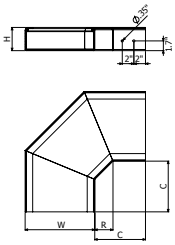


DESCRIPTION	W		H		C		R		PVC		
	in	mm	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud
CPBPI 60X100	4"	100	2"	60	8.8"	224	3.1"	80	2/1168	0.88	0.40
CPBPI 60X150	6"	150	2"	60	8.8"	224	3.1"	80	2/1169	1.19	0.54
CPBPI 60X200	8"	200	2"	60	8.6"	218	3.1"	80	2/1170	1.52	0.69
CPBPI 60X300	12"	300	2"	60	8.6"	218	3.1"	80	2/1171	2.43	1.10
CPBPI 100X200	8"	200	4"	100	8.6"	218	3.1"	80	2/5188	1.76	0.80
CPBPI 100X300	12"	300	4"	100	8.6"	218	3.1"	80	2/5189	2.65	1.20
CPBPI 100X400	16"	400	4"	100	8.6"	218	3.1"	80	2/1172	4.19	1.90
CPBPI 100X600	24"	600	4"	100	9.5"	241	4"	100	2/1173	5.58	2.53

2 JUBPI 60 (2/2061)
2 JUBPI 100 (2/2062)



H60



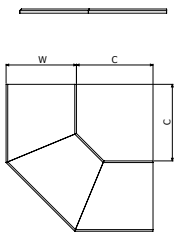
H100

TCPBPI - HORIZONTAL 90°ELBOW COVER

drawn in inches

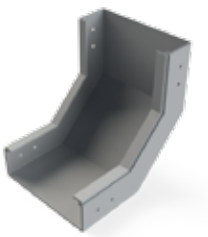
DESCRIPTION	W		C		PVC		
	in	mm	in	mm	REF.	lbs each	kg/ud
TCPBPI 100	4"	100	8.6"	219	2/5194	0.40	0.18
TCPBPI 150	6"	150	8.5"	217	2/5195	0.57	0.26
TCPBPI 200	8"	200	8.6"	218	2/5198	0.95	0.43
TCPBPI 300	12"	300	8.5"	217	2/5199	1.57	0.71
TCPBPI 400	16"	400	8.5"	215	2/5200	2.47	1.12
TCPBPI 600	24"	600	8.5"	215	2/5201	4.28	1.94

TCPBPI 600



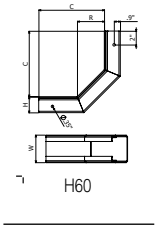
CCBPI - VERTICAL 90°INSIDE ELBOW

drawn in inches

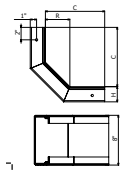


DESCRIPTION	W		H		C		R		PVC		
	in	mm	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud
CCBPI 60X100	4"	100	2"	60	9.4"	238	5.1"	130	2/1174	0.86	0.39
CCBPI 60X150	6"	150	2"	60	9.4"	238	5.1"	130	2/1175	1.08	0.49
CCBPI 60X200	8"	200	2"	60	9.4"	238	5.1"	130	2/1176	1.30	0.59
CCBPI 60X300	12"	300	2"	60	9.4"	238	5.1"	130	2/1177	1.79	0.81
CCBPI 100X200	8"	200	4"	100	10.8"	274	6.7"	170	2/5190	1.94	0.88
CCBPI 100X300	12"	300	4"	100	10.8"	274	6.7"	170	2/5191	2.45	1.11
CCBPI 100X400	16"	400	4"	100	10.8"	274	6.7"	170	2/1178	3.26	1.48
CCBPI 100X600	24"	600	4"	100	10.8"	274	6.7"	170	2/1179	4.41	2.00

2 JUBPI 60 (2/2061)
2 JUBPI 100 (2/2062)



H60

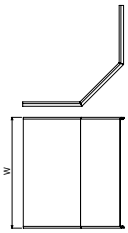


H100

TCCBPI - VERTICAL 90° INSIDE ELBOW COVER

drawn in inches

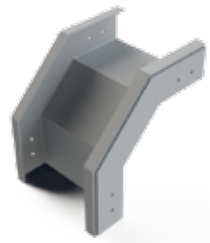
DESCRIPTION	W		PVC		
	in	mm	REF.	lbs each	kg/ud
TCCBPI 60X100	4"	100	2/5202	0.40	0.18
TCCBPI 60X150	6"	150	2/5203	0.53	0.24
TCCBPI 60X200	8"	200	2/5204	0.82	0.37
TCCBPI 60X300	12"	300	2/5205	1.15	0.52
TCCBPI 100X200	8"	200	2/5207	1.23	0.56
TCCBPI 100X300	12"	300	2/5208	1.34	0.61
TCCBPI 100X400	16"	400	2/5209	1.92	0.87
TCCBPI 100X600	24"	600	2/5210	2.29	1.04



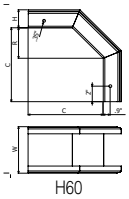
TCCBPI 100X600

CXBPI - VERTICAL 90° OUTSIDE ELBOW

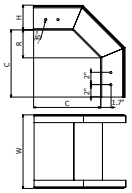
drawn in inches



DESCRIPTION	W		H		C		R		PVC		
	in	mm	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud
CXBPI 60X100	4"	100	2"	60	9.4"	238	4"	100	2/1180	0.86	0.39
CXBPI 60X150	6"	150	2"	60	9.4"	238	4"	100	2/1181	1.08	0.49
CXBPI 60X200	8"	200	2"	60	9.6"	243	4"	100	2/1182	1.30	0.59
CXBPI 60X300	12"	300	2"	60	9.6"	243	4"	100	2/1183	1.79	0.81
CXBPI 100X200	8"	200	4"	100	11"	279	4.7"	120	2/1192	1.94	0.88
CXBPI 100X300	12"	300	4"	100	11"	279	4.7"	120	2/1193	2.45	1.11
CXBPI 100X400	16"	400	4"	100	11"	279	4.7"	120	2/1184	3.26	1.48
CXBPI 100X600	24"	600	4"	100	11"	279	4.7"	120	2/4707	4.41	2.00



H60



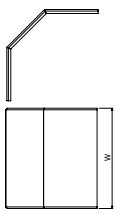
H100

2 JUBPI 60 (2/2061)
2 JUBPI 100 (2/2062)

TCXBPI - VERTICAL 90° OUTSIDE ELBOW COVER

drawn in inches

DESCRIPTION	W		PVC		
	in	mm	REF.	lbs each	kg/ud
TCXBPI 60X100	4"	100	2/5211	0.49	0.22
TCXBPI 60X150	6"	150	2/5212	0.66	0.30
TCXBPI 60X200	8"	200	2/5213	1.08	0.49
TCXBPI 60X300	12"	300	2/5214	1.43	0.65
TCXBPI 100X200	8"	200	2/5215	1.65	0.75
TCXBPI 100X300	12"	300	2/5216	1.81	0.82
TCXBPI 100X400	16"	400	2/5217	2.58	1.17
TCXBPI 100X600	24"	600	2/5218	3.06	1.39



TCXBPI 100X600

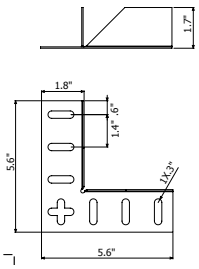
PDBPI - TEE AND 90° JUNCTION SPLICE

drawn in inches

DESCRIPTION	GSP		
	REF.	lbs each	kg/ud
PDBPI 60/100	2/3521	0.40	0.18

4/100 M8 PVC (2/10020)

□60 □100

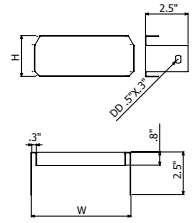


TFBPI - BLIND END PLATE

drawn in inches

DESCRIPTION	W		H		GSP		
	in	mm	in	mm	REF.	lbs each	kg/ud
TFBPI 60X100	4"	100	2"	60	2/4395	0.20	0.09
TFBPI 60X150	6"	150	2"	60	2/4800	0.29	0.13
TFBPI 60X200	8"	200	2"	60	2/4396	0.33	0.15
TFBPI 60X300	12"	300	2"	60	2/4838	0.46	0.21
TFBPI 100X200	8"	200	4"	100	2/5220	0.53	0.24
TFBPI 100X300	12"	300	4"	100	2/5221	0.68	0.31
TFBPI 100X400	16"	400	4"	100	2/5125	0.88	0.40
TFBPI 100X600	24"	600	4"	100	2/5219	1.21	0.55

2/100 M8 PVC (2/10020)

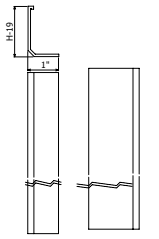


PSBPI - DIVIDER

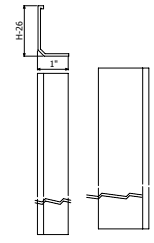
drawn in inches

DESCRIPTION	H		PVC		
	in	mm	REF.	lbs each	kg/m
PSBPI 60	2"	60	2/3522	0.49	0.22
PSBPI 100	4"	100	2/3523	0.84	0.38

4/100 M8 PVC (2/10020)



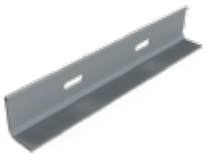
H60



H100

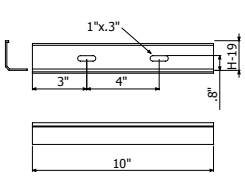
JUBPI - SPLICE PLATE

drawn in inches

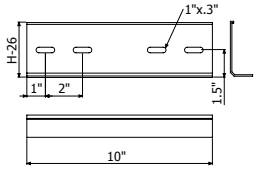


DESCRIPTION	H		PVC		
	in	mm	REF.	lbs each	kg/ud
JUBPI 60	1.6"	41	2/2061	0.11	0.05
JUBPI 100	3"	74	2/2062	0.20	0.09

JUBPI 60 --> 2/100 M8 PVC (2/10020)
JUBPI 100 --> 4/100 M8 PVC (2/10020)



JUBPI 60



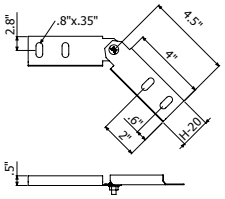
JUBPI 100

JUBPI-A - HINGED SPLICE

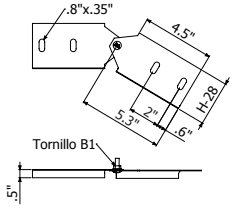
drawn in inches

DESCRIPTION	H		i304		
	in	mm	REF.	lbs each	kg/ud
JUBPI-A 60	2"	60	2/5036	0.20	0.09
JUBPI-A 100	4"	100	2/5037	0.35	0.16

4/100 M8 PVC (2/10020)



JUBPI-A 60



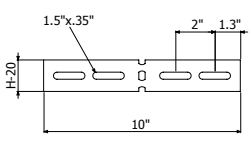
JUBPI-A 100

JUBPI-B - HORIZONTAL ANGLE SPLICE

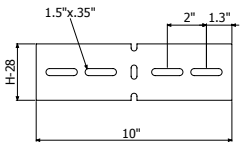
drawn in inches

DESCRIPTION	H		i304		
	in	mm	REF.	lbs each	kg/ud
JUBPI-B 60	2"	60	2/3520	0.29	0.13
JUBPI-B 100	4"	100	2/5038	0.49	0.22

4/100 M8 PVC (2/10020)



JUBPI-B 60

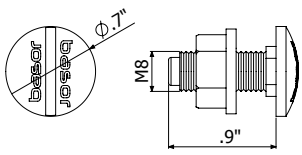


JUBPI-B 100

JUBPI-B - NON-METALLIC BOLT/NUT SET

drawn in inches

DESCRIPTION	PVC		
	REF.	lbs each	kg/ud
PACK 100 B2-P	2/10020	0.88	0.40



BASORPLAST BPI SUPPORTS

Use Basorplast PVC supports for floor, wall and ceiling installations in interior applications. These supports are formulated from the same non-flame propagating PVC material as our tray sections and are designed with a lower profile for the highest quality installation. Use these supports for tray runs in offices, warehouses or server rooms. Also included, is 304L stainless steel attachment hardware to complete your assembly.

BPI + SHG
Pages 18 and 26

PSHG + SHG
Page 26

BPI + SVG
Pages 18 and 27

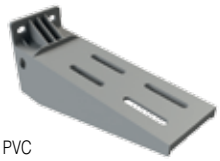
BPI + SVG
Pages 18 and 27

BPI + KSHGR + PSHGR
Pages 18 and 27

PSHG + SHG
Page 26

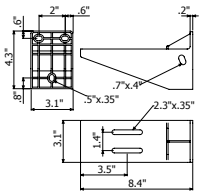
SHG - WALL SUPPORT

drawn in inches

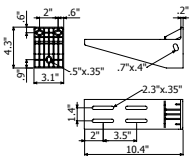


PVC

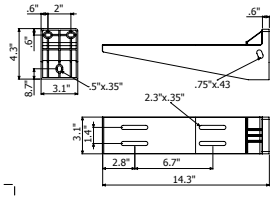
DESCRIPTION	W		40°C	104°F	60°C	140°F	PVC use with BPI		
	in	mm	CTA (lbs)	CTA (kg)	CTA (lbs)	CTA (kg)	REF.	lbs each	kg/ud
SHG 100	4"	100	198.42	90	99.21	45	2/6779	0.42	0.19
SHG 150	6"	150	231.49	105	115.74	52.5	2/6780	0.60	0.27
SHG 200	8"	200	264.56	120	132.28	60	2/6781	0.75	0.34
SHG 300	12"	300	286.60	130	143.3	65	2/6782	1.19	0.54
SHG 400	16"	400	485.02	220	242.51	110	2/7134	1.81	0.82
SHG 600	24"	600	396.83	180	198.42	90	2/7135	2.23	1.01



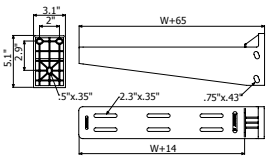
SHG150



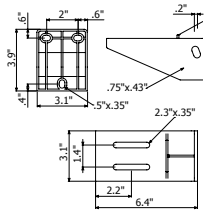
SHG200



SHG300



SHG 400/600



SHG100

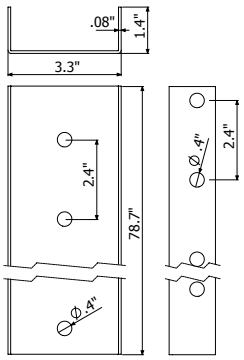
PSHG - RAIL

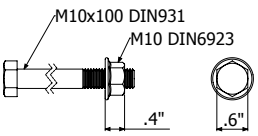
drawn in inches

PAS SHG

DESCRIPTION	GSP/i304		
	REF.	lbs each	kg/ud
PSHG	2/7203	5.05	2.29
PAS SHG	2/7228	0.24	0.11

1 CP SHG i304 (2/7228)
1 M10x100 DIN 931 + 1 M10 DIN6923





KSHGR + PSHGR - PENDANT HANGER AND PENDANT RAIL SUPPORT

drawn in inches

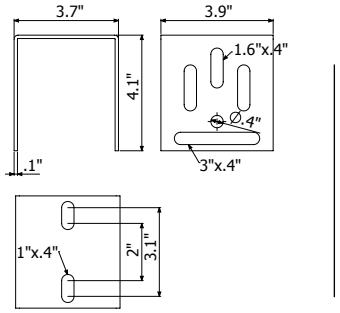
KSHGR

PSHGR

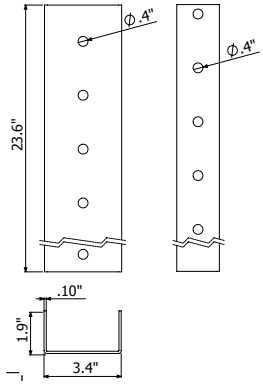
PAS SHG

DESCRIPTION	GSP/i304		
	REF.	lbs each	kg/ud
KSHGR	2/7403	1.34	0.61
PSHGR	2/7404	4.52	2.05
PAS SHG	2/7228	0.24	0.11

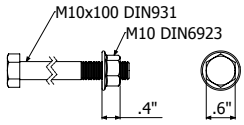
PSHGR --> KSHGR 4XB2 i304
SHG 100~300 --> KSHGR 1XP SHG i304
SHG 400~600 --> KSHGR 2XP SHG i304



KSHGR



PSHGR



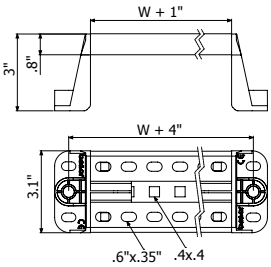
PAS SHG

SVG - TRAPEZE/FLOOR SUPPORT

drawn in inches

PVC

DESCRIPTION	W		CTA		PVC use with BPI		
	in	mm	lb	kg	REF.	lbs each	kg/ud
SVG 100	4"	100	846	384	2/10056	0.51	0.23
SVG 150	6"	150	846	384	2/10057	0.57	0.26
SVG 200	8"	200	846	384	2/10058	0.62	0.28
SVG 300	12"	300	450	204	2/10059	0.73	0.33
SVG 400	16"	400	263	120	2/10060	0.84	0.38
SVG 600	24"	600	132	60	2/10061	1.06	0.48



BPI ---> SVG: 2/100 x M8 PVC

HOW TO FIELD MODIFY BASORPLAST

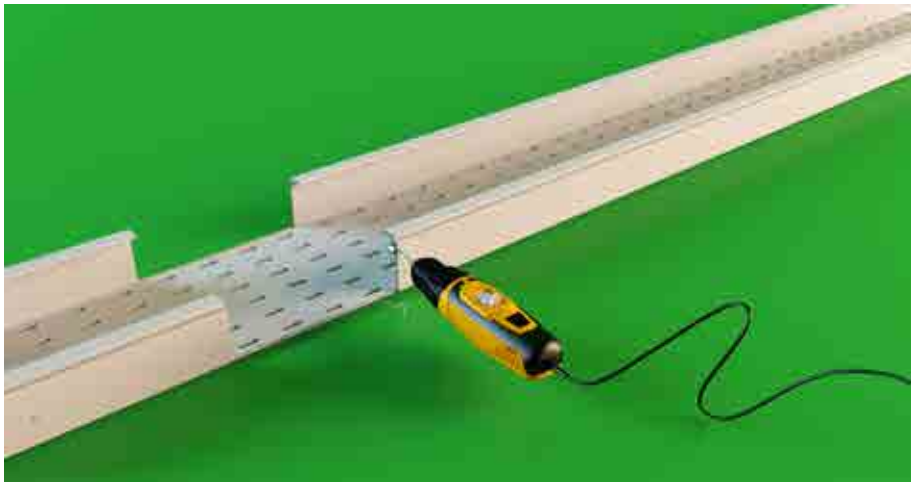
Basorplast can be modified for a custom installation with standard tools and a little practice. The PVC material used for Basorplast BPE and BPI has a consistency that can be sawn and drilled. Junctions, changes in levels, horizontal angles and crosses are simple to construct with components that are found in this catalog.

BASORPLAST TRAY MODIFICATION TIPS:

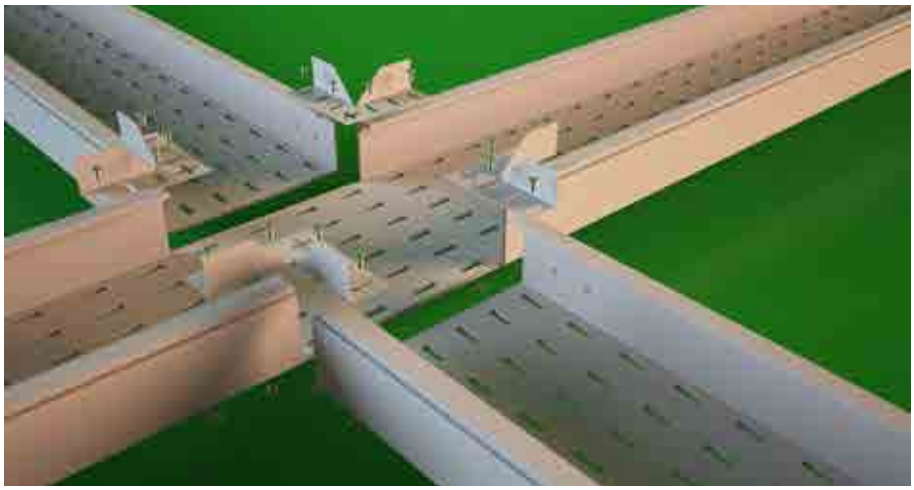
- Use a fine blade saw or Dremel tool to cut or trim Basorplast. Basorplast can be cut to length when needed
- Always touch up any rough edges with a utility knife or sandpaper
- Holes can be drilled in the bottom or sidewalls for mounting splices as needed
- Covers can also be custom cut to fit any tray modification for a seamless, quality result
- Cutting the tray sidewalls for cable dropouts reduces the load capacity of the tray and is not recommended
- Different widths of Basorplast tray can be joined for tees or crosses, however the heights must be the same

CONSTRUCTING CROSSES

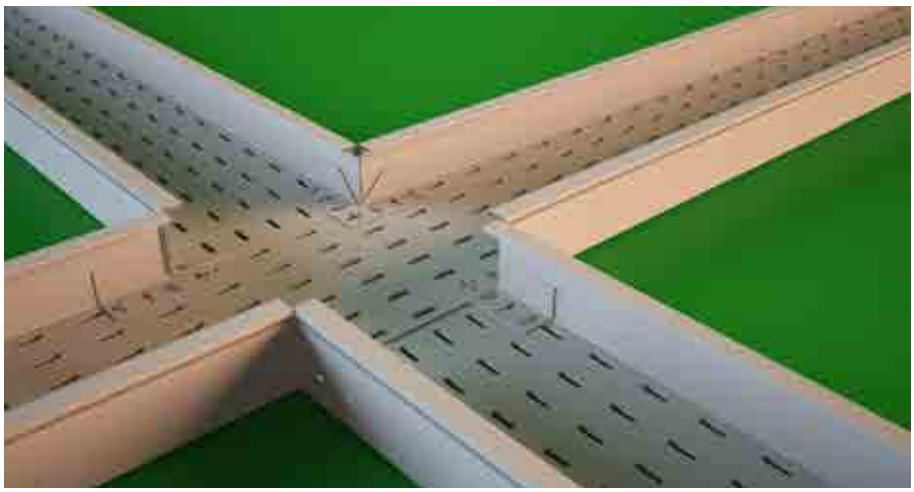
Trim out both sidewalls to match the width of the trays to be fitted.

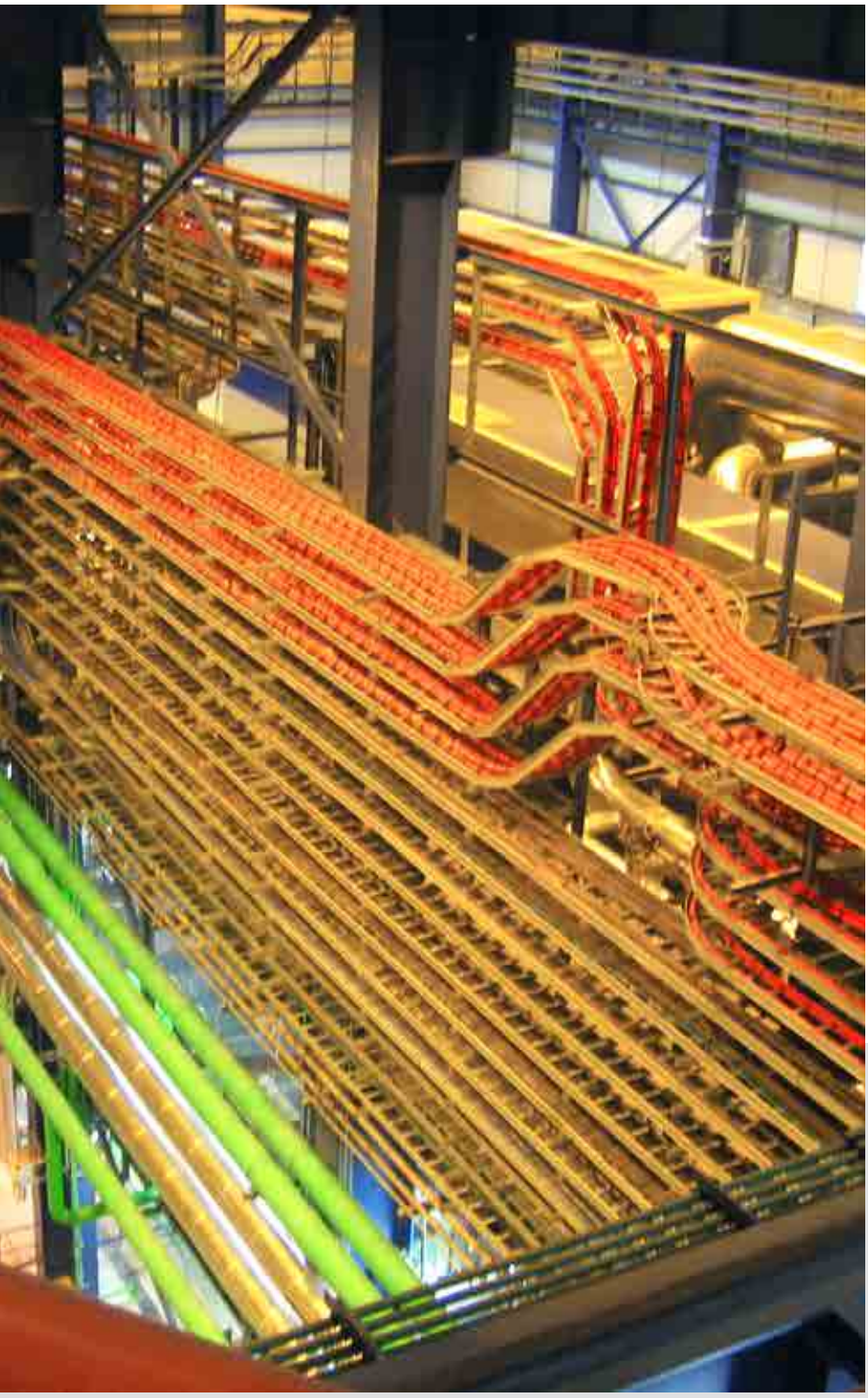


Join tray sections with junction splices at each of the four corners. Bolt together with Non-metallic bolt nut sets.



Support all sections of tray when constructing crosses.





FIBERTRAV
EFV

Fibertrav EFV **Fiberglass Cable Tray** can support control and power cabling in the most aggressive chemical and corrosive environments and is available in 20' lengths and heights of 3", 4", 6" and 8" to meet any NEMA specification. With three choices of rung spacing and tray widths up to 36", you can create a custom installation for any application. Fibertrav EFV is available with a complete line of accessories, supports and attachment hardware.

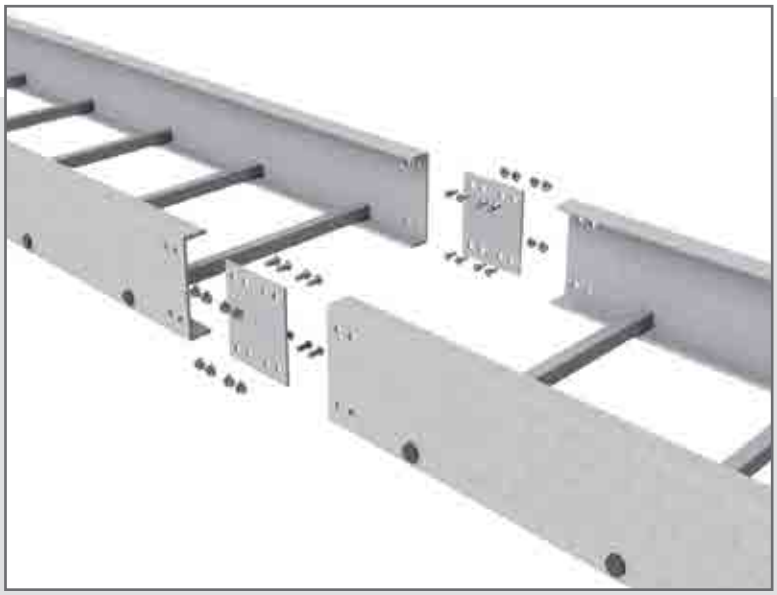
APPLICATIONS

- Chemical Processing Facilities
- Oil and Gas Refineries

NEMA	
EFV 3S	8C/12A
EFV 4S	12C/16A
EFV 6L	20B
EFV 6S	20C
EFV 8S	20C

NEMA VE1	
Side Rail	**Class**
100	8B
150	8C - 12A

TRAY CAPACITY									
WIDTH		**H3"**		**H4"**		**H6"**		**H8"**	
inch	**mm**	**in^2**	**cm^2**	**in^2**	**cm^2**	**in^2**	**cm^2**	**in^2**	**cm^2**
6"	150	10.44	66.30	16.20	102.90	27.02	171.60	39.50	250.80
9"	225	15.66	99.45	24.31	154.35	40.54	257.40	59.24	376.20
12"	300	20.88	132.60	32.41	205.80	54.05	343.20	78.99	501.60
18"	450	31.32	198.90	48.61	308.70	81.07	514.80	118.49	752.40
24"	600	41.76	265.20	64.82	411.60	108.09	686.40	157.98	1003.20
30"	750	52.20	331.50	81.02	514.50	135.12	858.00	197.48	1254.00
36"	900	62.65	397.80	97.23	617.40	162.14	1029.60	236.98	1504.80

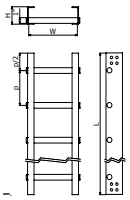


EFV 3S - 3" DEPTH FIBERGLASS LADDER TRAY

drawn in inches

EFV 3S-WxH-p
L = 20ft (6m)

					PRFV								
	W		H		6" Rung Spacing (150 mm)			9" Rung Spacing (230 mm)			12" Rung Spacing (300 mm)		
DESCRIPTION	in	mm	in	mm	REF.	lbs each	kg/m	REF.	lbs each	kg/m	REF.	lbs each	kg/m
EFV 3S-6x3-p	6"	150	3"	75	2/11239	6.68	3.03	2/11279	6.04	2.74	2/11319	5.78	2.62
EFV 3S-9x3-p	9"	225	3"	75	2/11240	7.56	3.43	2/11280	6.64	3.01	2/11320	6.22	2.82
EFV 3S-12x3-p	12"	300	3"	75	2/11241	8.44	3.83	2/11281	7.21	3.27	2/11321	6.68	3.03
EFV 3S-18x3-p	18"	450	3"	75	2/11242	10.23	4.64	2/11282	8.36	3.79	2/11322	7.56	3.43
EFV 3S-24x3-p	24"	600	3"	75	2/11243	12.02	5.45	2/11283	9.52	4.32	2/11323	8.47	3.84



2 x JUEFV H3 (2/12068)

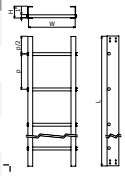
EFV 3S-6x3-6 --> 2/11239

EFV 4S - 4" DEPTH FIBERGLASS LADDER TRAY

drawn in inches

EFV 4S-WxH-p
L = 20ft (6m)

					PRFV								
	W		H		6" Rung Spacing (150 mm)			9" Rung Spacing (230 mm)			12" Rung Spacing (300 mm)		
DESCRIPTION	in	mm	in	mm	REF.	lbs each	kg/m	REF.	lbs each	kg/m	REF.	lbs each	kg/m
EFV 4S-6x4-p	6"	150	4"	100	2/11244	8.93	4.05	2/11284	8.31	3.77	2/11324	8.05	3.65
EFV 4S-9x4-p	9"	225	4"	100	2/11245	9.81	4.45	2/11285	8.88	4.03	2/11325	8.49	3.85
EFV 4S-12x4-p	12"	300	4"	100	2/11246	10.71	4.86	2/11286	9.46	4.29	2/11326	8.93	4.05
EFV 4S-18x4-p	18"	450	4"	100	2/11247	12.50	5.67	2/11287	10.63	4.82	2/11327	9.83	4.46
EFV 4S-24x4-p	24"	600	4"	100	2/11248	14.29	6.48	2/11288	11.79	5.35	2/11328	10.71	4.86
EFV 4S-30x4-p	30"	750	4"	100	2/11249	16.07	7.29	2/11289	12.94	5.87	2/11329	11.60	5.26
EFV 4S-36x4-p	36"	900	4"	100	2/11250	16.67	7.56	2/11290	13.34	6.05	2/11330	11.91	5.40



2 x JUEFV H4 (2/12069)

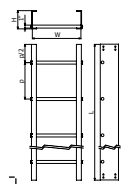
EFV 4S-6x4-6 --> 2/11244

EFV 6L - 6" DEPTH FIBERGLASS LADDER TRAY

drawn in inches

EFV 6L-WxH-p
L = 20ft (6m)

					PRFV								
	W		H		6" Rung Spacing (150 mm)			9" Rung Spacing (230 mm)			12" Rung Spacing (300 mm)		
DESCRIPTION	in	mm	in	mm	REF.	lbs each	kg/m	REF.	lbs each	kg/m	REF.	lbs each	kg/m
EFV 6L-6x6-p	6"	150	6"	150	2/11251	12.48	5.66	2/11291	11.84	5.37	2/11331	11.57	5.25
EFV 6L-9x6-p	9"	225	6"	150	2/11252	13.36	6.06	2/11292	12.43	5.64	2/11332	12.04	5.46
EFV 6L-12x6-p	12"	300	6"	150	2/11253	14.26	6.47	2/11293	13.01	5.90	2/11333	12.48	5.66
EFV 6L-18x6-p	18"	450	6"	150	2/11254	16.05	7.28	2/11294	14.18	6.43	2/11334	13.36	6.06
EFV 6L-24x6-p	24"	600	6"	150	2/11255	17.84	8.09	2/11295	15.32	6.95	2/11335	14.26	6.47
EFV 6L-30x6-p	30"	750	6"	150	2/11256	19.62	8.90	2/11296	16.49	7.48	2/11336	15.15	6.87
EFV 6L-36x6-p	36"	900	6"	150	2/11257	20.23	9.17	2/11297	16.87	7.65	2/11337	15.45	7.01



2 x JUEFV H6 (2/12070)

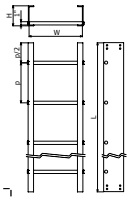
EFV 6L-6x6-6 --> 2/11251

EFV 6S - 6" DEPTH FIBERGLASS LADDER TRAY

drawn in inches

EFV 6S-WxH-p
L = 20ft (6m)

					PRFV								
	W		H		6" Rung Spacing (150 mm)			9" Rung Spacing (230 mm)			12" Rung Spacing (300 mm)		
DESCRIPTION	in	mm	in	mm	REF.	lbs each	kg/m	REF.	lbs each	kg/m	REF.	lbs each	kg/m
EFV 6S-6x6-p	6"	150	6"	150	2/11258	15.96	7.24	2/11298	15.34	6.96	2/11338	15.08	6.84
EFV 6S-9x6-p	9"	225	6"	150	2/11259	16.87	7.65	2/11299	15.92	7.22	2/11339	15.52	7.04
EFV 6S-12x6-p	12"	300	6"	150	2/11260	17.75	8.05	2/11300	16.51	7.49	2/11340	15.96	7.24
EFV 6S-18x6-p	18"	450	6"	150	2/11261	19.53	8.86	2/11301	17.66	8.01	2/11341	16.87	7.65
EFV 6S-24x6-p	24"	600	6"	150	2/11262	21.32	9.67	2/11302	18.83	8.54	2/11342	17.75	8.05
EFV 6S-30x6-p	30"	750	6"	150	2/11263	23.10	10.48	2/11303	19.97	9.06	2/11343	18.65	8.46
EFV 6S-36x6-p	36"	900	6"	150	2/11264	23.70	10.75	2/11304	20.37	9.24	2/11344	18.94	8.59



2 x JUEFV H6 (2/12070)

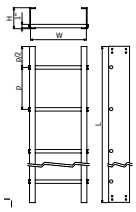
EFV 6S-6x6-6 --> 2/11258

EFV 6R - 6" DEPTH FIBERGLASS LADDER TRAY

drawn in inches

EFV 6R-WxH-p
L = 20ft (6m)

					PRFV								
	W		H		6" Rung Spacing (150 mm)			9" Rung Spacing (230 mm)			12" Rung Spacing (300 mm)		
DESCRIPTION	in	mm	in	mm	REF.	lbs each	kg/m	REF.	lbs each	kg/m	REF.	lbs each	kg/m
EFV 6R-6x6-p	6"	150	6"	150	2/11265	19.47	8.83	2/11305	18.83	8.54	2/11345	18.56	8.42
EFV 6R-9x6-p	9"	225	6"	150	2/11266	20.35	9.23	2/11306	19.42	8.81	2/11346	19.03	8.63
EFV 6R-12x6-p	12"	300	6"	150	2/11267	21.25	9.64	2/11307	20.00	9.07	2/11347	19.47	8.83
EFV 6R-18x6-p	18"	450	6"	150	2/11268	23.04	10.45	2/11308	21.16	9.60	2/11348	20.35	9.23
EFV 6R-24x6-p	24"	600	6"	150	2/11269	24.82	11.26	2/11309	22.31	10.12	2/11349	21.25	9.64
EFV 6R-30x6-p	30"	750	6"	150	2/11270	26.61	12.07	2/11310	23.48	10.65	2/11350	22.13	10.04
EFV 6R-36x6-p	36"	900	6"	150	2/11271	27.21	12.34	2/11311	23.88	10.83	2/11351	22.44	10.18



2 x JUEFV H6 (2/12070)

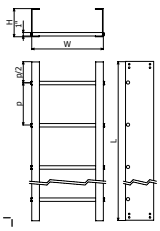
EFV 6R-6x6-6 --> 2/11265

EFV 8S - 8" DEPTH FIBERGLASS LADDER TRAY

drawn in inches

EFV 6R-WxH-p
L = 20ft (6m)

					PRFV								
	W		H		6" Rung Spacing (150 mm)			9" Rung Spacing (230 mm)			12" Rung Spacing (300 mm)		
DESCRIPTION	in	mm	in	mm	REF.	lbs each	kg/m	REF.	lbs each	kg/m	REF.	lbs each	kg/m
EFV 8S-6x8-p	6"	150	8"	200	2/11272	17.86	8.10	2/11312	17.24	7.82	2/11352	16.98	7.70
EFV 8S-9x8-p	9"	225	8"	200	2/11273	18.74	8.50	2/11313	17.81	8.08	2/11353	17.42	7.90
EFV 8S-12x8-p	12"	300	8"	200	2/11274	19.64	8.91	2/11314	18.39	8.34	2/11354	17.86	8.10
EFV 8S-18x8-p	18"	450	8"	200	2/11275	21.43	9.72	2/11315	19.56	8.87	2/11355	18.76	8.51
EFV 8S-24x8-p	24"	600	8"	200	2/11276	23.21	10.53	2/11316	20.72	9.40	2/11356	19.64	8.91
EFV 8S-30x8-p	30"	750	8"	200	2/11277	25.00	11.34	2/11317	21.87	9.92	2/11357	20.53	9.31
EFV 8S-36x8-p	36"	900	8"	200	2/11278	25.60	11.61	2/11318	22.27	10.10	2/11358	20.83	9.45



2 x JUEFV H8 (2/12071)

EFV 8S-6x8-6 --> 2/11272

CP-CC-CX (H3) - 3" DEPTH ELBOWS

drawn in inches

CP 'R' - 'A' EFV-'W'x''H'

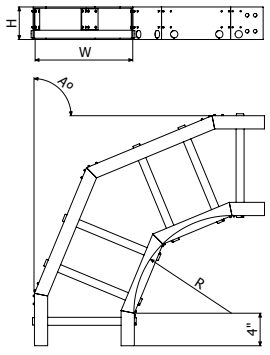
CC 'R' - 'A' EFV-'W'x''H'

CX 'R' - 'A' EFV-'W'x''H'

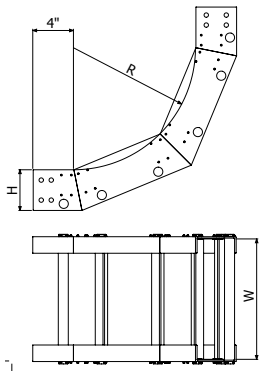
R		A (º)	W		H		PRFV								
							CP			CC			CX		
in	mm		in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
12"	300	45	6"	150	3"	75	2/11359	1.72	0.78	2/11495	3.15	1.43	2/11631	3.15	1.43
12"	300	45	9"	230	3"	75	2/11360	2.12	0.96	2/11496	3.55	1.61	2/11632	3.55	1.61
12"	300	45	12"	300	3"	75	2/11361	2.54	1.15	2/11497	3.95	1.79	2/11633	3.95	1.79
12"	300	45	18"	450	3"	75	2/11362	3.33	1.51	2/11498	4.74	2.15	2/11634	4.74	2.15
12"	300	45	24"	600	3"	75	2/11363	4.12	1.87	2/11499	5.56	2.52	2/11635	5.56	2.52
12"	300	90	6"	150	3"	75	2/11364	4.54	2.06	2/11500	7.39	3.35	2/11636	7.39	3.35
12"	300	90	9"	230	3"	75	2/11365	5.36	2.43	2/11501	8.20	3.72	2/11637	8.20	3.72
12"	300	90	12"	300	3"	75	2/11366	6.15	2.79	2/11502	8.99	4.08	2/11638	8.99	4.08
12"	300	90	18"	450	3"	75	2/11367	7.76	3.52	2/11503	10.60	4.81	2/11639	10.60	4.81
12"	300	90	24"	600	3"	75	2/11368	9.37	4.25	2/11504	12.21	5.54	2/11640	12.21	5.54

2 x JUEFV H3 (2/12068)

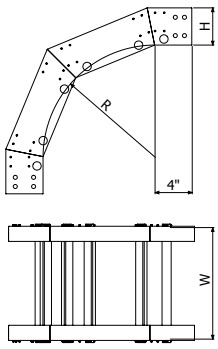
CP12-45 EFV-6x3 --> 2/11359



CP 'R' - 'A' EFV-'W'x''H'



CC 'R' - 'A' EFV-'W'x''H'



CX 'R' - 'A' EFV-'W'x''H'

CP-CC-CX (H4) - 4" DEPTH ELBOWS

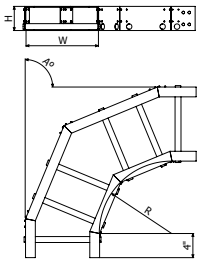
drawn in inches

R		A (º)	W		H		PRFV								
							CP			CC			CX		
in	mm		in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
12"	300	45	6"	150	4"	100	2/11369	2.82	1.28	2/11505	4.25	1.93	2/11641	4.25	1.93
12"	300	45	9"	225	4"	100	2/11370	3.22	1.46	2/11506	4.65	2.11	2/11642	4.65	2.11
12"	300	45	12"	300	4"	100	2/11371	3.64	1.65	2/11507	5.05	2.29	2/11643	5.05	2.29
12"	300	45	18"	450	4"	100	2/11372	4.43	2.01	2/11508	5.84	2.65	2/11644	5.84	2.65
12"	300	45	24"	600	4"	100	2/11373	5.22	2.37	2/11509	6.66	3.02	2/11645	6.66	3.02
12"	300	45	30"	750	4"	100	2/11374	6.04	2.74	2/11510	7.45	3.38	2/11646	7.45	3.38
12"	300	45	36"	900	4"	100	2/11375	6.31	2.86	2/11511	7.72	3.50	2/11647	7.72	3.50
12"	300	90	6"	150	4"	100	2/11376	5.64	2.56	2/11512	8.49	3.85	2/11648	8.49	3.85
12"	300	90	9"	225	4"	100	2/11377	6.46	2.93	2/11513	9.30	4.22	2/11649	9.30	4.22
12"	300	90	12"	300	4"	100	2/11378	7.25	3.29	2/11514	10.10	4.58	2/11650	10.10	4.58
12"	300	90	18"	450	4"	100	2/11379	8.86	4.02	2/11515	11.71	5.31	2/11651	11.71	5.31
12"	300	90	24"	600	4"	100	2/11380	10.47	4.75	2/11516	13.32	6.04	2/11652	13.32	6.04
12"	300	90	30"	750	4"	100	2/11381	12.08	5.48	2/11517	14.93	6.77	2/11653	14.93	6.77
12"	300	90	36"	900	4"	100	2/11382	12.61	5.72	2/11518	15.45	7.01	2/11654	15.45	7.01
24"	600	45	6"	150	4"	100	2/11383	3.24	1.47	2/11519	4.87	2.21	2/11655	4.87	2.21
24"	600	45	9"	225	4"	100	2/11384	3.70	1.68	2/11520	5.34	2.42	2/11656	5.34	2.42
24"	600	45	12"	300	4"	100	2/11385	4.17	1.89	2/11521	5.80	2.63	2/11657	5.80	2.63
24"	600	45	18"	450	4"	100	2/11386	5.10	2.31	2/11522	6.72	3.05	2/11658	6.72	3.05
24"	600	45	24"	600	4"	100	2/11387	6.02	2.73	2/11523	7.65	3.47	2/11659	7.65	3.47
24"	600	45	30"	750	4"	100	2/11388	6.94	3.15	2/11524	8.58	3.89	2/11660	8.58	3.89
24"	600	45	36"	900	4"	100	2/11389	7.25	3.29	2/11525	8.88	4.03	2/11661	8.88	4.03
24"	600	90	6"	150	4"	100	2/11390	6.50	2.95	2/11526	9.77	4.43	2/11662	9.77	4.43
24"	600	90	9"	225	4"	100	2/11391	7.41	3.36	2/11527	10.69	4.85	2/11663	10.69	4.85
24"	600	90	12"	300	4"	100	2/11392	8.33	3.78	2/11528	11.62	5.27	2/11664	11.62	5.27
24"	600	90	18"	450	4"	100	2/11393	10.19	4.62	2/11529	13.45	6.10	2/11665	13.45	6.10
24"	600	90	24"	600	4"	100	2/11394	12.04	5.46	2/11530	15.30	6.94	2/11666	15.30	6.94
24"	600	90	30"	750	4"	100	2/11395	13.89	6.30	2/11531	17.15	7.78	2/11667	17.15	7.78
24"	600	90	36"	900	4"	100	2/11396	14.51	6.58	2/11532	17.77	8.06	2/11668	17.77	8.06
36"	900	45	6"	150	4"	100	2/11397	3.73	1.69	2/11533	5.62	2.55	2/11669	5.62	2.55
36"	900	45	9"	225	4"	100	2/11398	4.25	1.93	2/11534	6.15	2.79	2/11670	6.15	2.79
36"	900	45	12"	300	4"	100	2/11399	4.81	2.18	2/11535	6.68	3.03	2/11671	6.68	3.03
36"	900	45	18"	450	4"	100	2/11400	5.86	2.66	2/11536	7.74	3.51	2/11672	7.74	3.51
36"	900	45	24"	600	4"	100	2/11401	6.92	3.14	2/11537	8.80	3.99	2/11673	8.80	3.99
36"	900	45	30"	750	4"	100	2/11402	7.98	3.62	2/11538	9.85	4.47	2/11674	9.85	4.47
36"	900	45	36"	900	4"	100	2/11403	8.33	3.78	2/11539	10.21	4.63	2/11675	10.21	4.63
36"	900	90	6"	150	4"	100	2/11404	7.47	3.39	2/11540	11.22	5.09	2/11676	11.22	5.09
36"	900	90	9"	225	4"	100	2/11405	8.53	3.87	2/11541	12.30	5.58	2/11677	12.30	5.58
36"	900	90	12"	300	4"	100	2/11406	9.59	4.35	2/11542	13.36	6.06	2/11678	13.36	6.06
36"	900	90	18"	450	4"	100	2/11407	11.71	5.31	2/11543	15.48	7.02	2/11679	15.48	7.02
36"	900	90	24"	600	4"	100	2/11408	13.85	6.28	2/11544	17.59	7.98	2/11680	17.59	7.98
36"	900	90	30"	750	4"	100	2/11409	15.96	7.24	2/11545	19.73	8.95	2/11681	19.73	8.95
36"	900	90	36"	900	4"	100	2/11410	16.67	7.56	2/11546	20.44	9.27	2/11682	20.44	9.27

CP 'R' - 'A' EFV-'W'x"H'

CC 'R' - 'A' EFV-'W'x"H'

CX 'R' - 'A' EFV-'W'x"H'



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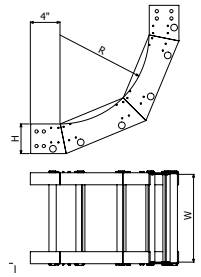

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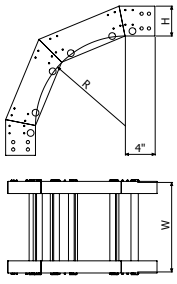


CX 'R' - 'A' EFV-'B'x"H'

2 x JUEFV H4 (2/12069)

CP12-45 EFV-6x4 --> 2/11369

CP-CC-CX (H6) - 6" DEPTH ELBOWS

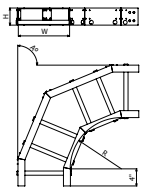
drawn in inches

CP 'R' - 'A' EFV-'W'x"H'

CC 'R' - 'A' EFV-'W'x"H'

CX 'R' - 'A' EFV-'W'x"H'

R		A (º)	W		H		PRFV								
							CP			CC			CX		
in	mm		in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
12"	300	45	6"	150	6"	150	2/11411	5.36	2.43	2/11547	6.79	3.08	2/11683	6.79	3.08
12"	300	45	9"	225	6"	150	2/11412	5.75	2.61	2/11548	7.19	3.26	2/11684	7.19	3.26
12"	300	45	12"	300	6"	150	2/11413	6.17	2.80	2/11549	7.58	3.44	2/11685	7.58	3.44
12"	300	45	18"	450	6"	150	2/11414	6.97	3.16	2/11550	8.38	3.80	2/11686	8.38	3.80
12"	300	45	24"	600	6"	150	2/11415	7.76	3.52	2/11551	9.19	4.17	2/11687	9.19	4.17
12"	300	45	30"	750	6"	150	2/11416	8.58	3.89	2/11552	9.99	4.53	2/11688	9.99	4.53
12"	300	45	36"	900	6"	150	2/11417	8.84	4.01	2/11553	10.25	4.65	2/11689	10.25	4.65
12"	300	90	6"	150	6"	150	2/11418	8.18	3.71	2/11554	11.02	5.00	2/11690	11.02	5.00
12"	300	90	9"	225	6"	150	2/11419	8.99	4.08	2/11555	11.84	5.37	2/11691	11.84	5.37
12"	300	90	12"	300	6"	150	2/11420	9.79	4.44	2/11556	12.63	5.73	2/11692	12.63	5.73
12"	300	90	18"	450	6"	150	2/11421	11.40	5.17	2/11557	14.24	6.46	2/11693	14.24	6.46
12"	300	90	24"	600	6"	150	2/11422	13.01	5.90	2/11558	15.85	7.19	2/11694	15.85	7.19
12"	300	90	30"	750	6"	150	2/11423	14.62	6.63	2/11559	17.46	7.92	2/11695	17.46	7.92
12"	300	90	36"	900	6"	150	2/11424	6.17	2.80	2/11560	7.80	3.54	2/11696	7.80	3.54
24"	600	45	6"	150	6"	150	2/11425	6.61	3.00	2/11561	8.27	3.75	2/11697	8.27	3.75
24"	600	45	9"	225	6"	150	2/11426	7.08	3.21	2/11562	8.73	3.96	2/11698	8.73	3.96
24"	600	45	12"	300	6"	150	2/11427	8.00	3.63	2/11563	9.63	4.37	2/11699	9.63	4.37
24"	600	45	18"	450	6"	150	2/11428	8.93	4.05	2/11564	10.56	4.79	2/11700	10.56	4.79
24"	600	45	24"	600	6"	150	2/11429	9.85	4.47	2/11565	11.49	5.21	2/11701	11.49	5.21
24"	600	45	30"	750	6"	150	2/11430	10.16	4.61	2/11566	11.79	5.35	2/11702	11.79	5.35
24"	600	45	36"	900	6"	150	2/11431	9.41	4.27	2/11567	12.68	5.75	2/11703	12.68	5.75
24"	600	90	6"	150	6"	150	2/11432	10.34	4.69	2/11568	13.60	6.17	2/11704	13.60	6.17
24"	600	90	9"	225	6"	150	2/11433	11.27	5.11	2/11569	14.53	6.59	2/11705	14.53	6.59
24"	600	90	12"	300	6"	150	2/11434	13.10	5.94	2/11570	16.38	7.43	2/11706	16.38	7.43
24"	600	90	18"	450	6"	150	2/11435	14.95	6.78	2/11571	18.23	8.27	2/11707	18.23	8.27
24"	600	90	24"	600	6"	150	2/11436	16.80	7.62	2/11572	20.06	9.10	2/11708	20.06	9.10
24"	600	90	30"	750	6"	150	2/11437	7.08	3.21	2/11573	8.97	4.07	2/11709	8.97	4.07
24"	600	90	36"	900	6"	150	2/11438	7.63	3.46	2/11574	9.50	4.31	2/11710	9.50	4.31
36"	900	45	6"	150	6"	150	2/11439	7.08	3.21	2/11575	8.97	4.07	2/11711	8.97	4.07
36"	900	45	9"	225	6"	150	2/11440	7.63	3.46	2/11576	9.50	4.31	2/11712	9.50	4.31
36"	900	45	12"	300	6"	150	2/11441	8.16	3.70	2/11577	10.03	4.55	2/11713	10.03	4.55
36"	900	45	18"	450	6"	150	2/11442	9.22	4.18	2/11578	11.09	5.03	2/11714	11.09	5.03
36"	900	45	24"	600	6"	150	2/11443	10.27	4.66	2/11579	12.15	5.51	2/11715	12.15	5.51
36"	900	45	30"	750	6"	150	2/11444	11.33	5.14	2/11580	13.21	5.99	2/11716	13.21	5.99
36"	900	45	36"	900	6"	150	2/11445	11.68	5.30	2/11581	13.58	6.16	2/11717	13.58	6.16
36"	900	90	6"	150	6"	150	2/11446	10.82	4.91	2/11582	14.57	6.61	2/11718	14.57	6.61
36"	900	90	9"	225	6"	150	2/11447	11.88	5.39	2/11583	15.65	7.10	2/11719	15.65	7.10
36"	900	90	12"	300	6"	150	2/11448	12.94	5.87	2/11584	16.71	7.58	2/11720	16.71	7.58
36"	900	90	18"	450	6"	150	2/11449	15.08	6.84	2/11585	18.83	8.54	2/11721	18.83	8.54
36"	900	90	24"	600	6"	150	2/11450	17.20	7.80	2/11586	20.94	9.50	2/11722	20.94	9.50
36"	900	90	30"	750	6"	150	2/11451	19.31	8.76	2/11587	23.08	10.47	2/11723	23.08	10.47
36"	900	90	36"	900	6"	150	2/11452	8.16	3.70	2/11588	10.32	4.68	2/11724	10.32	4.68



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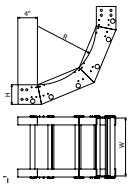
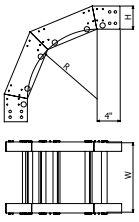


CC 'R' - 'A' EFV-'W'x"H'



CX 'R' - 'A' EFV-'W'x"H'

2 x JUEFV H6 (2/12070)

CP12-45 EFV-6x6 --> 2/11411

CP-CC-CX (H8) - 8" DEPTH ELBOWS

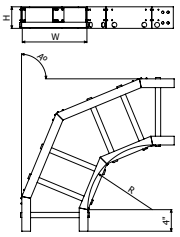
drawn in inches

R		A (º)	W		H		PRFV								
							CP			CC			CX		
in	mm		in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
12"	300	45	6"	150	8"	200	2/11453	8.29	3.76	2/11589	9.72	4.41	2/11725	9.72	4.41
12"	300	45	9"	225	8"	200	2/11454	8.69	3.94	2/11590	10.12	4.59	2/11726	10.12	4.59
12"	300	45	12"	300	8"	200	2/11455	9.11	4.13	2/11591	10.52	4.77	2/11727	10.52	4.77
12"	300	45	18"	450	8"	200	2/11456	9.90	4.49	2/11592	11.31	5.13	2/11728	11.31	5.13
12"	300	45	24"	600	8"	200	2/11457	10.69	4.85	2/11593	12.13	5.50	2/11729	12.13	5.50
12"	300	45	30"	750	8"	200	2/11458	11.51	5.22	2/11594	12.92	5.86	2/11730	12.92	5.86
12"	300	45	36"	900	8"	200	2/11459	11.77	5.34	2/11595	13.18	5.98	2/11731	13.18	5.98
12"	300	90	6"	150	8"	200	2/11460	11.11	5.04	2/11596	13.96	6.33	2/11732	13.96	6.33
12"	300	90	9"	225	8"	200	2/11461	11.93	5.41	2/11597	14.77	6.70	2/11733	14.77	6.70
12"	300	90	12"	300	8"	200	2/11462	12.72	5.77	2/11598	15.56	7.06	2/11734	15.56	7.06
12"	300	90	18"	450	8"	200	2/11463	14.33	6.50	2/11599	17.17	7.79	2/11735	17.17	7.79
12"	300	90	24"	600	8"	200	2/11464	15.94	7.23	2/11600	18.78	8.52	2/11736	18.78	8.52
12"	300	90	30"	750	8"	200	2/11465	17.55	7.96	2/11601	20.39	9.25	2/11737	20.39	9.25
12"	300	90	36"	900	8"	200	2/11466	9.11	4.13	2/11602	10.74	4.87	2/11738	10.74	4.87
24"	600	45	6"	150	8"	200	2/11467	9.52	4.32	2/11603	11.18	5.07	2/11739	11.18	5.07
24"	600	45	9"	225	8"	200	2/11468	9.99	4.53	2/11604	11.64	5.28	2/11740	11.64	5.28
24"	600	45	12"	300	8"	200	2/11469	10.45	4.74	2/11605	12.10	5.49	2/11741	12.10	5.49
24"	600	45	18"	450	8"	200	2/11470	11.38	5.16	2/11606	13.01	5.90	2/11742	13.01	5.90
24"	600	45	24"	600	8"	200	2/11471	12.30	5.58	2/11607	13.93	6.32	2/11743	13.93	6.32
24"	600	45	30"	750	8"	200	2/11472	13.23	6.00	2/11608	14.86	6.74	2/11744	14.86	6.74
24"	600	45	36"	900	8"	200	2/11473	13.54	6.14	2/11609	15.17	6.88	2/11745	15.17	6.88
24"	600	90	6"	150	8"	200	2/11474	12.79	5.80	2/11610	16.05	7.28	2/11746	16.05	7.28
24"	600	90	9"	225	8"	200	2/11475	13.71	6.22	2/11611	16.98	7.70	2/11747	16.98	7.70
24"	600	90	12"	300	8"	200	2/11476	14.64	6.64	2/11612	17.90	8.12	2/11748	17.90	8.12
24"	600	90	18"	450	8"	200	2/11477	16.47	7.47	2/11613	19.75	8.96	2/11749	19.75	8.96
24"	600	90	24"	600	8"	200	2/11478	18.32	8.31	2/11614	21.58	9.79	2/11750	21.58	9.79
24"	600	90	30"	750	8"	200	2/11479	20.17	9.15	2/11615	23.44	10.63	2/11751	23.44	10.63
24"	600	90	36"	900	8"	200	2/11480	10.45	4.74	2/11616	12.35	5.60	2/11752	12.35	5.60
36"	900	45	6"	150	8"	200	2/11481	10.96	4.97	2/11617	12.85	5.83	2/11753	12.85	5.83
36"	900	45	9"	225	8"	200	2/11482	11.49	5.21	2/11618	13.38	6.07	2/11754	13.38	6.07
36"	900	45	12"	300	8"	200	2/11483	12.04	5.46	2/11619	13.91	6.31	2/11755	13.91	6.31
36"	900	45	18"	450	8"	200	2/11484	13.10	5.94	2/11620	14.97	6.79	2/11756	14.97	6.79
36"	900	45	24"	600	8"	200	2/11485	14.15	6.42	2/11621	16.03	7.27	2/11757	16.03	7.27
36"	900	45	30"	750	8"	200	2/11486	15.21	6.90	2/11622	17.09	7.75	2/11758	17.09	7.75
36"	900	45	36"	900	8"	200	2/11487	15.56	7.06	2/11623	17.44	7.91	2/11759	17.44	7.91
36"	900	90	6"	150	8"	200	2/11488	14.70	6.67	2/11624	18.45	8.37	2/11760	18.45	8.37
36"	900	90	9"	225	8"	200	2/11489	15.76	7.15	2/11625	19.53	8.86	2/11761	19.53	8.86
36"	900	90	12"	300	8"	200	2/11490	16.82	7.63	2/11626	20.59	9.34	2/11762	20.59	9.34
36"	900	90	18"	450	8"	200	2/11491	18.94	8.59	2/11627	22.71	10.30	2/11763	22.71	10.30
36"	900	90	24"	600	8"	200	2/11492	21.08	9.56	2/11628	24.82	11.26	2/11764	24.82	11.26
36"	900	90	30"	750	8"	200	2/11493	23.19	10.52	2/11629	26.96	12.23	2/11765	26.96	12.23
36"	900	90	36"	900	8"	200	2/11494	12.04	5.46	2/11630	14.20	6.44	2/11766	14.20	6.44

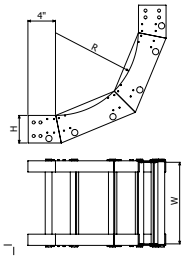
CP 'R' - 'A' EFV-'W'x'H'

CC 'R' - 'A' EFV-'W'x'H'

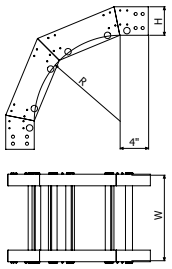
CX 'R' - 'A' EFV-'W'x'H'



CP 'R' - 'A' EFV-'B'x'H'



CC 'R' - 'A' EFV-'B'x'H'



CX 'R' - 'A' EFV-'B'x'H'

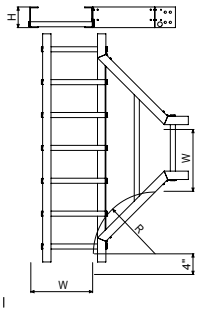
2 x JUEFV H8 (2/12071)

CP12-45 EFV-6x8 --> 2/11453

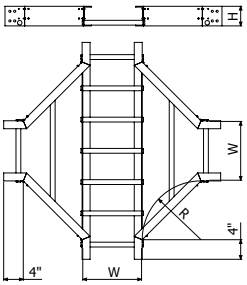
TE-CR (H3-H4) - 3"/4" DEPTH TEES AND JUNCTIONS

drawn in inches

TE 'R' EFV-'W'x'H'



CR 'R' EFV-'W'x'H'



H3	R		W		H		PRFV					
							TE			CR		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	12"	300	6"	150	3"	75	2/11767	12.30	5.58	2/11838	14.75	6.69
	12"	300	9"	225	3"	75	2/11768	13.36	6.06	2/11839	16.49	7.48
	12"	300	12"	300	3"	75	2/11769	14.44	6.55	2/11840	18.23	8.27
	12"	300	18"	450	3"	75	2/11770	16.58	7.52	2/11841	21.72	9.85
	12"	300	24"	600	3"	75	2/11771	18.72	8.49	2/11842	25.20	11.43

2 x JUEFV H3 (2/12068)

TE12 EFV-6x3 --> 2/11767

H4	R		W		H		PRFV					
							TE			CR		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	12"	300	6"	150	4"	100	2/11772	13.96	6.33	2/11843	16.84	7.64
	12"	300	9"	225	4"	100	2/11773	15.01	6.81	2/11844	18.58	8.43
	12"	300	12"	300	4"	100	2/11774	16.09	7.30	2/11845	20.33	9.22
	12"	300	18"	450	4"	100	2/11775	18.23	8.27	2/11846	23.81	10.80
	12"	300	24"	600	4"	100	2/11776	20.37	9.24	2/11847	27.29	12.38
	12"	300	30"	750	4"	100	2/11777	22.51	10.21	2/11848	30.78	13.96
	12"	300	36"	900	4"	100	2/11778	23.24	10.54	2/11849	31.92	14.48
	24"	600	6"	150	4"	100	2/11779	16.05	7.28	2/11850	19.38	8.79
	24"	600	9"	225	4"	100	2/11780	17.28	7.84	2/11851	21.38	9.70
	24"	600	12"	300	4"	100	2/11781	18.52	8.40	2/11852	23.37	10.60
	24"	600	18"	450	4"	100	2/11782	20.97	9.51	2/11853	27.38	12.42
	24"	600	24"	600	4"	100	2/11783	23.44	10.63	2/11854	31.37	14.23
	24"	600	30"	750	4"	100	2/11784	25.90	11.75	2/11855	35.38	16.05
	24"	600	36"	900	4"	100	2/11785	26.72	12.12	2/11856	36.71	16.65
	36"	900	6"	150	4"	100	2/11786	18.45	8.37	2/11857	22.29	10.11
	36"	900	9"	225	4"	100	2/11787	19.86	9.01	2/11858	24.58	11.15
	36"	900	12"	300	4"	100	2/11788	21.27	9.65	2/11859	26.87	12.19
	36"	900	18"	450	4"	100	2/11789	24.12	10.94	2/11860	31.48	14.28
	36"	900	24"	600	4"	100	2/11790	26.94	12.22	2/11861	36.09	16.37
	36"	900	30"	750	4"	100	2/11791	29.78	13.51	2/11862	40.70	18.46
	36"	900	36"	900	4"	100	2/11792	30.73	13.94	2/11863	42.22	19.15

2 x JUEFV H4 (2/12069)

TE12 EFV-6x4 --> 2/11772

TE-CR (H6-H8) - 6"/8" DEPTH TEES AND JUNCTIONS

drawn in inches

H6	R		W		H		PRFV					
							TE			CR		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	12"	300	6"	150	6"	150	2/11793	17.26	7.83	2/11864	20.15	9.14
	12"	300	9"	225	6"	150	2/11794	18.32	8.31	2/11865	21.89	9.93
	12"	300	12"	300	6"	150	2/11795	19.40	8.80	2/11866	23.63	10.72
	12"	300	18"	450	6"	150	2/11796	21.54	9.77	2/11867	27.12	12.30
	12"	300	24"	600	6"	150	2/11797	23.68	10.74	2/11868	30.60	13.88
	12"	300	30"	750	6"	150	2/11798	25.82	11.71	2/11869	34.08	15.46
	12"	300	36"	900	6"	150	2/11799	26.54	12.04	2/11870	35.23	15.98
	24"	600	6"	150	6"	150	2/11800	19.36	8.78	2/11871	22.69	10.29
	24"	600	9"	225	6"	150	2/11801	20.59	9.34	2/11872	24.69	11.20
	24"	600	12"	300	6"	150	2/11802	21.83	9.90	2/11873	26.68	12.10
	24"	600	18"	450	6"	150	2/11803	24.27	11.01	2/11874	30.69	13.92
	24"	600	24"	600	6"	150	2/11804	26.74	12.13	2/11875	34.68	15.73
	24"	600	30"	750	6"	150	2/11805	29.21	13.25	2/11876	38.69	17.55
	24"	600	36"	900	6"	150	2/11806	30.03	13.62	2/11877	40.01	18.15
	36"	900	6"	150	6"	150	2/11807	21.76	9.87	2/11878	25.60	11.61
	36"	900	9"	225	6"	150	2/11808	23.17	10.51	2/11879	27.89	12.65
	36"	900	12"	300	6"	150	2/11809	24.58	11.15	2/11880	30.18	13.69
	36"	900	18"	450	6"	150	2/11810	27.43	12.44	2/11881	34.79	15.78
	36"	900	24"	600	6"	150	2/11811	30.25	13.72	2/11882	39.40	17.87
	36"	900	30"	750	6"	150	2/11812	33.09	15.01	2/11883	44.00	19.96
	36"	900	36"	900	6"	150	2/11813	34.04	15.44	2/11884	45.53	20.65

2 x JUEFV H6 (2/12070)

TE12 EFV-6x6 --> 2/11793

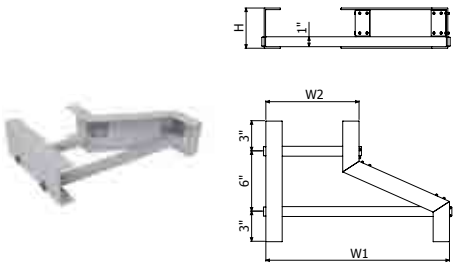
H8	R		W		H		PRFV					
							TE			CR		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	12"	300	6"	150	8"	200	2/11817	20.57	9.33	2/11885	23.46	10.64
	12"	300	9"	225	8"	200	2/11818	21.63	9.81	2/11886	25.20	11.43
	12"	300	12"	300	8"	200	2/11819	22.71	10.30	2/11887	26.94	12.22
	12"	300	18"	450	8"	200	2/11820	24.85	11.27	2/11888	30.42	13.80
	12"	300	24"	600	8"	200	2/11821	26.98	12.24	2/11889	33.91	15.38
	12"	300	30"	750	8"	200	2/11822	29.12	13.21	2/11890	37.39	16.96
	12"	300	36"	900	8"	200	2/11823	29.85	13.54	2/11891	38.54	17.48
	24"	600	6"	150	8"	200	2/11824	22.66	10.28	2/11892	25.99	11.79
	24"	600	9"	225	8"	200	2/11825	23.90	10.84	2/11893	28.00	12.70
	24"	600	12"	300	8"	200	2/11826	25.13	11.40	2/11894	29.98	13.60
	24"	600	18"	450	8"	200	2/11827	27.58	12.51	2/11895	34.00	15.42
	24"	600	24"	600	8"	200	2/11828	30.05	13.63	2/11896	37.99	17.23
	24"	600	30"	750	8"	200	2/11829	32.52	14.75	2/11897	42.00	19.05
	24"	600	36"	900	8"	200	2/11830	33.33	15.12	2/11898	43.32	19.65
	36"	900	6"	150	8"	200	2/11831	25.07	11.37	2/11899	28.90	13.11
	36"	900	9"	225	8"	200	2/11832	26.48	12.01	2/11900	31.20	14.15
	36"	900	12"	300	8"	200	2/11833	27.89	12.65	2/11901	33.49	15.19
	36"	900	18"	450	8"	200	2/11834	30.73	13.94	2/11902	38.10	17.28
	36"	900	24"	600	8"	200	2/11835	33.55	15.22	2/11903	42.70	19.37
	36"	900	30"	750	8"	200	2/11836	36.40	16.51	2/11904	47.31	21.46
	36"	900	36"	900	8"	200	2/11837	37.35	16.94	2/11905	48.83	22.15

2 x JUEFV H8 (2/12071)

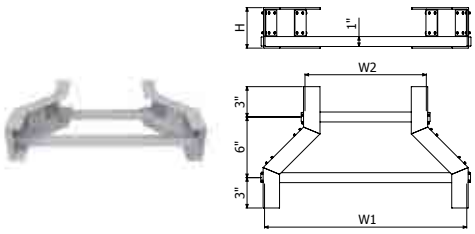
TE12 EFV-6x8 --> 2/11817

RE (H3, H4) - 3"/4" DEPTH REDUCERS

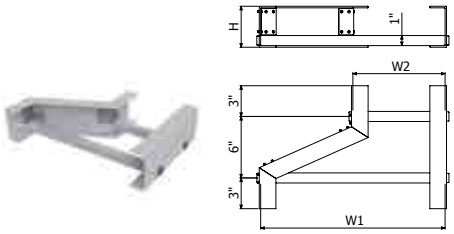
drawn in inches



REI-'W1'/'W2' EFV'H'



REC-'W1'/'W2' EFV'H'



RED-'W1'/'W2' EFV'H'

H3	W1		W2		H		PRFV								
							REI			REC			RED		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	9"	225	6"	100	3"	75	2/11906	3.20	1.45	2/11960	3.55	1.61	2/12014	3.20	1.45
	12"	300	9"	225	3"	75	2/11907	3.46	1.57	2/11961	3.81	1.73	2/12015	3.46	1.57
	12"	300	6"	100	3"	75	2/11908	3.33	1.51	2/11962	3.68	1.67	2/12016	3.33	1.51
	18"	450	12"	300	3"	75	2/11909	3.88	1.76	2/11963	4.23	1.92	2/12017	3.88	1.76
	18"	450	9"	225	3"	75	2/11910	3.75	1.70	2/11964	4.10	1.86	2/12018	3.75	1.70
	18"	450	6"	100	3"	75	2/11911	3.62	1.64	2/11965	3.97	1.80	2/12019	3.62	1.64
	24"	600	18"	450	3"	75	2/11912	4.41	2.00	2/11966	4.76	2.16	2/12020	4.41	2.00
	24"	600	12"	300	3"	75	2/11913	4.14	1.88	2/11967	4.50	2.04	2/12021	4.14	1.88
	24"	600	9"	225	3"	75	2/11914	4.01	1.82	2/11968	4.37	1.98	2/12022	4.01	1.82

2 x JUEFV H3 (2/12068)

REI-9/6 EFV3 --> 2/11906
REC-9/6 EFV3 --> 2/11960
RED-9/6 EFV3 --> 2/12014

H4	W1		W2		H		PRFV								
							REI			REC			RED		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	9"	225	6"	100	4"	100	2/11915	3.75	1.70	2/11969	4.10	1.86	2/12023	3.75	1.70
	12"	300	9"	225	4"	100	2/11916	4.01	1.82	2/11970	4.37	1.98	2/12024	4.01	1.82
	12"	300	6"	100	4"	100	2/11917	3.88	1.76	2/11971	4.23	1.92	2/12025	3.88	1.76
	18"	450	12"	300	4"	100	2/11918	4.43	2.01	2/11972	4.78	2.17	2/12026	4.43	2.01
	18"	450	9"	225	4"	100	2/11919	4.30	1.95	2/11973	4.65	2.11	2/12027	4.30	1.95
	18"	450	6"	100	4"	100	2/11920	4.17	1.89	2/11974	4.52	2.05	2/12028	4.17	1.89
	24"	600	18"	450	4"	100	2/11921	4.96	2.25	2/11975	5.31	2.41	2/12029	4.96	2.25
	24"	600	12"	300	4"	100	2/11922	4.70	2.13	2/11976	5.05	2.29	2/12030	4.70	2.13
	24"	600	9"	225	4"	100	2/11923	4.56	2.07	2/11977	4.92	2.23	2/12031	4.56	2.07
	30"	750	24"	600	4"	100	2/11924	5.49	2.49	2/11978	5.84	2.65	2/12032	5.49	2.49
	30"	750	18"	450	4"	100	2/11925	5.22	2.37	2/11979	5.58	2.53	2/12033	5.22	2.37
	30"	750	12"	300	4"	100	2/11926	4.96	2.25	2/11980	5.31	2.41	2/12034	4.96	2.25
	36"	900	30"	750	4"	100	2/11927	5.84	2.65	2/11981	6.19	2.81	2/12035	5.84	2.65
	36"	900	24"	600	4"	100	2/11928	5.58	2.53	2/11982	5.93	2.69	2/12036	5.58	2.53
	36"	900	18"	450	4"	100	2/11929	5.31	2.41	2/11983	5.67	2.57	2/12037	5.31	2.41

2 x JUEFV H4 (2/12069)

REI-9/6 EFV4 --> 2/11915
REC-9/6 EFV4 --> 2/11969
RED-9/6 EFV4 --> 2/12023

RE (H6, H8) - 6"/8" DEPTH REDUCERS

H6	W1		W2		H		PRFV								
							REI			REC			RED		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	9"	225	6"	100	6"	150	2/11930	4.85	2.20	2/11984	5.20	2.36	2/12038	4.85	2.20
	12"	300	9"	225	6"	150	2/11931	5.11	2.32	2/11985	5.47	2.48	2/12039	5.11	2.32
	12"	300	6"	100	6"	150	2/11932	4.98	2.26	2/11986	5.34	2.42	2/12040	4.98	2.26
	18"	450	12"	300	6"	150	2/11933	5.53	2.51	2/11987	5.89	2.67	2/12041	5.53	2.51
	18"	450	9"	225	6"	150	2/11934	5.40	2.45	2/11988	5.75	2.61	2/12042	5.40	2.45
	18"	450	6"	100	6"	150	2/11935	5.27	2.39	2/11989	5.62	2.55	2/12043	5.27	2.39
	24"	600	18"	450	6"	150	2/11936	6.06	2.75	2/11990	6.42	2.91	2/12044	6.06	2.75
	24"	600	12"	300	6"	150	2/11937	5.80	2.63	2/11991	6.15	2.79	2/12045	5.80	2.63
	24"	600	9"	225	6"	150	2/11938	25.67	2.57	2/11992	6.02	2.73	2/12046	25.67	2.57
	30"	750	24"	600	6"	150	2/11939	6.59	2.99	2/11993	6.94	3.15	2/12047	6.59	2.99
	30"	750	18"	450	6"	150	2/11940	6.33	2.87	2/11994	6.68	3.03	2/12048	6.33	2.87
	30"	750	12"	300	6"	150	2/11941	6.06	2.75	2/11995	6.42	2.91	2/12049	6.06	2.75
	36"	900	30"	750	6"	150	2/11942	6.94	3.15	2/11996	7.30	3.31	2/12050	6.94	3.15
	36"	900	24"	600	6"	150	2/11943	6.68	3.03	2/11997	7.03	3.19	2/12051	6.68	3.03
	36"	900	18"	450	6"	150	2/11944	6.42	2.91	2/11998	6.77	3.07	2/12052	6.42	2.91

2 x JUEFV H6 (2/12070)

REI-9/6 EFV6 --> 2/11930
REC-9/6 EFV6 --> 2/11984
RED-9/6 EFV6 --> 2/12038

H8	W1		W2		H		PRFV								
							REI			REC			RED		
	in	mm	in	mm	in	mm	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud	REF.	lbs each	kg/ud
	9"	225	6"	100	8"	200	2/11945	5.95	2.70	2/11999	6.31	2.86	2/12053	5.95	2.70
	12"	300	9"	225	8"	200	2/11946	6.22	2.82	2/12000	6.57	2.98	2/12054	6.22	2.82
	12"	300	6"	100	8"	200	2/11947	6.08	2.76	2/12001	6.44	2.92	2/12055	6.08	2.76
	18"	450	12"	300	8"	200	2/11948	6.64	3.01	2/12002	6.99	3.17	2/12056	6.64	3.01
	18"	450	9"	225	8"	200	2/11949	6.50	2.95	2/12003	6.86	3.11	2/12057	6.50	2.95
	18"	450	6"	100	8"	200	2/11950	6.37	2.89	2/12004	6.72	3.05	2/12058	6.37	2.89
	24"	600	18"	450	8"	200	2/11951	7.17	3.25	2/12005	7.52	3.41	2/12059	7.17	3.25
	24"	600	12"	300	8"	200	2/11952	6.90	3.13	2/12006	7.25	3.29	2/12060	6.90	3.13
	24"	600	9"	225	8"	200	2/11953	6.77	3.07	2/12007	7.12	3.23	2/12061	6.77	3.07
	30"	750	24"	600	8"	200	2/11954	7.69	3.49	2/12008	8.05	3.65	2/12062	7.69	3.49
	30"	750	18"	450	8"	200	2/11955	7.43	3.37	2/12009	7.78	3.53	2/12063	7.43	3.37
	30"	750	12"	300	8"	200	2/11956	7.17	3.25	2/12010	7.52	3.41	2/12064	7.17	3.25
	36"	900	30"	750	8"	200	2/11957	8.05	3.65	2/12011	8.40	3.81	2/12065	8.05	3.65
	36"	900	24"	600	8"	200	2/11958	7.78	3.53	2/12012	8.14	3.69	2/12066	7.78	3.53
	36"	900	18"	450	8"	200	2/11959	7.52	3.41	2/12013	7.87	3.57	2/12067	7.52	3.41

2 x JUEFV H8 (2/12071)

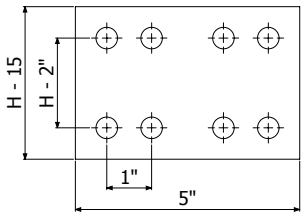
REI-9/6 EFV8 --> 2/11945
REC-9/6 EFV8 --> 2/11999
RED-9/6 EFV8 --> 2/12053

JUEFV - SPLICE

drawn in inches

DESCRIPTION	H		PRFV		
	in	mm	REF.	lbs each	kg/m
JUEFV H3	3"	75	2/12068	0.02	0.01
JUEFV H4	4"	100	2/12069	0.02	0.01
JUEFV H6	6"	150	2/12070	0.04	0.02
JUEFV H8	8"	200	2/12071	0.07	0.03

8 x CTFV (2/6386)

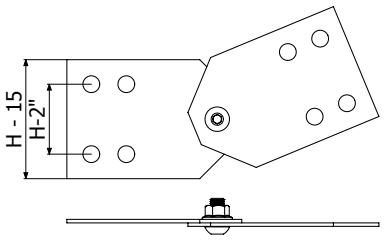


JUEFV-A - HINGED SPLICE

drawn in inches

DESCRIPTION	H		i316		
	in	mm	REF.	lbs each	kg/ud
JUEFV-A H3	3"	75	2/12072	0.35	0.16
JUEFV-A H4	4"	100	2/12073	0.46	0.21
JUEFV-A H6	6"	150	2/12074	0.79	0.36
JUEFV-A H8	8"	200	2/12075	1.06	0.48

8 x CTFV (2/6386)

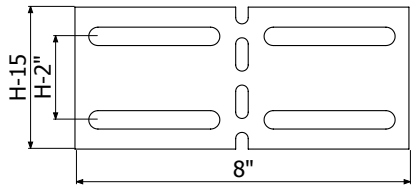


JUEFV-B - ANGLE SPLICE

drawn in inches

DESCRIPTION	H		i316		
	in	mm	REF.	lbs each	kg/ud
JUEFV-B H3	3"	75	2/12076	0.46	0.21
JUEFV-B H4	4"	100	2/12077	0.71	0.32
JUEFV-B H6	6"	150	2/12078	1.26	0.57
JUEFV-B H8	8"	200	2/12079	1.79	0.81

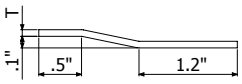
8 x CTFV (2/6386)

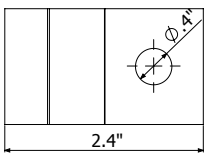


BEFV - HOLD DOWN CLIP

drawn in inches

DESCRIPTION	T		i316		
	in	mm	REF.	lbs each	kg/ud
BEFV	0.12"	3	2/5399	0.09	0.04



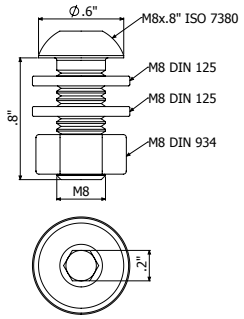


CTFV - BOLT/NUT SET

drawn in inches

DESCRIPTION	Pap	i316		
	Nm	REF.	lbs each	kg/ud
CTFV M8x20	15	2/6386	0.33	0.15

1 x CTFV = 1 x M8x20 ISO7380 + 2 x M8 DIN125 + 1 x M8 DIN934

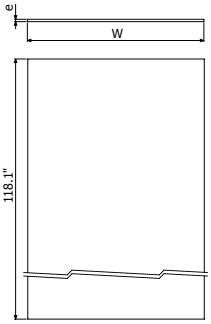


TEFV - COVER

drawn in inches

L= 10 ft (3m)

DESCRIPTION	W		T		PRFV		
	in	mm	in	mm	REF.	lbs each	kg/m
TEFV 6	6"	150	0.16"	4	2/14463	3.22	1.46
TEFV 9	9"	225	0.16"	4	2/14464	4.85	2.20
TEFV 12	12"	300	0.16"	4	2/14465	6.46	2.93
TEFV 18	18"	450	0.16"	4	2/14466	9.68	4.39
TEFV 24	24"	600	0.16"	4	2/14467	12.92	5.86
TEFV 30	30"	750	0.16"	4	2/14468	16.14	7.32
TEFV 36	36"	900	0.16"	4	2/14469	19.36	8.78



PTEFV - COVER CLAMP

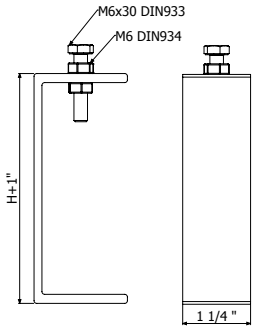
drawn in inches

PTEFV H3 - H6

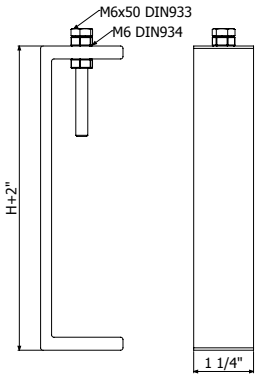
DESCRIPTION	H		PRFV			i316	
	in	mm	REF.	lbs each	kg/m	REF.	kg/ud
PTEFV H3	3"	75	2/5505	0.13	0.06	-	-
PTEFV H4	4"	100	2/5506	0.22	0.10	-	-
PTEFV H6	6"	150	2/14470	0.31	0.14	-	-
PTEFV H8	8"	200	-	-	-	2/14471	0.10

4 x PTEFV <-- 3m -->

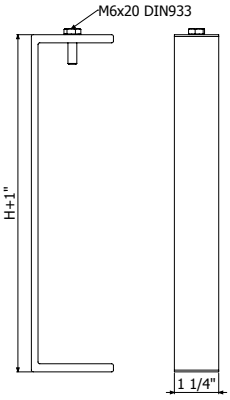
PTEFV H8



PTEFV H3



PTEFV H4/H6



PTEFV H8

EFV CHEMICAL RESISTANCE

Key

●	resistant
⊛	limited resistant
○	not resistant
ng	not testet
*	stress cracking
GL	saturated solution
°	moisture expansion/softening

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
acetaldehyde	technically pure	20	⊛	○	●
		40	○		⊛
		60			
		80			
		100			
acetaldehyde	40%, hydrous	20	●	⊛	●
		40	●	○	●
		60	●		⊛
		80	⊛		
		100	○		
acetone	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
	up to 10% hydrous	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
acetonitrile		20		○	
		40			
		60			
		80			
		100			
acetophenone		20		○	
		40			
		60			
		80			
		100			
acrylonitrile	technically pure	20	●	○	●
		40	⊛		●
		60			●
		80			
		100			
acrylic acid ethyl ester	technically pure	20	○	○	
		40			
		60			
		80			
		100			
acrylic acid methyl ester	technically pure	20		○	
		40			
		60			
		80			
		100			
adipic acid	saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	○	●
		80	●		
		100			
allyl alcohol	96%	20	●	⊛	●
		40	●	○	●
		60	●		●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
aliminium chloride	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
	saturated	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	⊛		
aliminium sulphate	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100			
formic acid*	up to 50% hydrous	20	●	●	●
		40	●	●	●
		60	⊛	⊛	●
		80			
		100			
ammonia*	gaseous, technically pure	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
ammonium acetate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
ammonium carbonate	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
ammonium chloride	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
ammonium hydrogen fluoride	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
ammonium hydroxide	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
ammonium nitrate	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	⊛
		80	⊛		
		100			
	saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	⊛
		80	⊛		
		100			
ammonium phosphate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
ammonium sulphate	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
	saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
ammonium sulphide	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
amyl acetate	technically pure	20	⊛	○	●
		40	⊛		●
		60	○		●
		80			
		100			
amyl alcohol*	technically pure	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
aniline	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
anile hydrochloride	saturated, hydrous	20	●	○	●
		40	●		●
		60	⊛		⊛
		80			
		100			

Key

●	resistant
⊛	limited resistant
○	not resistant
ng	not testet
*	stress cracking
GL	saturated solution
°	moisture expansion/softening

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
antinom-trichloride*	90%, hydrous	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			
arsenic acid	80%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
barium hydroxide	hydrous, saturated	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
barium salts	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100			
benzal dehyde	saturated, hydrous	20	●	○	●
		40			●
		60			●
		80			
		100			
gas*	free from lead and aromatic	20	⊛	●	●
	compounds	40		●	●
		60	○	●	⊛
		80			
		100			
benzoic acid	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
benzol	technically pure	20	⊛	○	⊛
		40	○		⊛
		60			
		80			
		100			
benzyl alcohol*	technically pure	20	●	⊛	●
		40	●		●
		60	⊛		⊛
		80			
		100			
amber salt	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
beer	usual	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
lead acetate	hydrous, saturated	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
lead tetraethyl*	technically pure	20	●	●	●
		40			
		60			
		80			
		100			
borax	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
boric acid	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
wine spirits*	usual	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
		20		○	
bramine benzol	high	20	○	○	○
		40			
		60			
		80			
		100			
bromine	technically pure	20	○	○	○
		40			
		60			
		80			
		100			
bromine water	saturated, hydrous	20	○	●	○
		40			
		60			
		80			
		100			
bromhydric acid*	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
butadiene°	technically pure	20	●	●	●
		40	●		
		60	●		
		80			
		100			
butane	technically pure	20	●	●	●
		40			
		60			
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
butandiol*	10%, hydrous	20	●	●	●
		40	●	⊛	●
		60	●		●
		80			
		100			
butanol*	technically pure	20	●	●	●
		40	●	●	●
		60	⊛	⊛	●
		80	○		
		100			
butanoic acid*	technically pure	20	●	●	●
		40			●
		60			⊛
		80			
		100			
butyl acetate	technically pure	20	⊛	○	●
		40			
		60			
		80			
		100			
butylene (liquid)	technically pure	20	○	●	○
		40			
		60			
		80			
		100			
butylene glycole*	technically pure	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
butylphenol, p-tertiary	technically pure	20	●	⊛	⊛
		40		○	
		60			
		80			
		100			
calciumup toulfit	cold saturated, hydrous	20		●	
		40		●	
		60		⊛	
		80			
		100			
calcium chloride	saturated, hydrous (each)	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
calcium hydroxide	saturated, hydrous (suspension)	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100			
calcium hypochlorite*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			

EFV CHEMICAL RESISTANCE

Key

●	resistant
⊛	limited resistant
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ng	not testet
*	stress cracking
GL	saturated solution
°	moisture expansion/softening

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
calcium nitrate	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			
chlorine	97%, gas, moist	20	○	○	○
		40			
		60			
		80			
		100			
	technically pure, dry	20	○	○	⊛
		40			⊛
		60			○
		80			
		100			
	technically pure, liquid	20	○	○	○
		40			
		60			
		80			
		100			
chloral hydrate	technically pure	20	⊛	○	●
		40			●
		60	○		●
		80			
		100			
chloroethanol	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
chlorobenzine	technically pure	20	●	○	⊛
		40			
		60			
		80			
		100			
chloracetic acid, mono-*	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			
	technically pure	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
chloroethanol	technically pure	20		○	
		40			
		60			
		80			
		100			
chloroform	technically pure	20	⊛	○	○
		40			
		60			
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
cloric acid*	10%, hydrous	20	○	●	●
		40		●	●
		60		⊛	
		80			
		100			
	20%, hydrous	20	○	●	⊛
		40		●	
		60		⊛	
		80			
		100			
cloric acid	< 20%	20	○	●	⊛
		40		●	
		60		⊛	
		80			
		100			
chlorosulphonic acid	technically pure	20	○	⊛	○
		40			
		60			
		80			
		100			
chlorine water*	saturated	20	⊛	●	⊛
		40		●	⊛
		60		⊛	
		80			
		100			
hydrochloric acid*	technically pure, gaseous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
chrom alum	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
chromate*	up to 50%, hydrous	20	⊛	⊛	⊛
		40	○	⊛	○
		60		○	
		80			
		100			
	each, hydrous	20	⊛	⊛	⊛
		40			
		60			
		80			
		100			
clophen	technically pure	20		○	
		40			
		60			
		80			
		100			
crotonaldehyde	technically pure	20	●	○	●
		40			
		60			
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
hydrocyanic acid	technically pure	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
cyclohexane*	technically pure	20	●	○	●
		40			●
		60			●
		80			
		100			
cyclohexanole*	technically pure	20	●	●	●
		40	●	●	●
		60	⊛	●	●
		80			
		100			
cyclohexanone	technically pure	20	●	○	●
		40	⊛		⊛
		60	⊛		⊛
		80			
		100			
densodrin		20		●	
		40		●	
		60		●	
		80			
		100			
dextrin	usual	20	●	●	●
		40		●	●
		60		●	●
		80			
		100			
dibutyl ether	technically pure	20	⊛	○	⊛
		40	○		○
		60			
		80			
		100			
dibutyl phthalate	technically pure	20	●	○	●
		40	⊛		⊛
		60	⊛		⊛
		80			
		100			
dibutyl sebazate	technically pure	20	●	○	●
		40			
		60			
		80			
		100			
dichlorethylene	technically pure	20	⊛	○	○
		40			
		60			
		80			
		100			
dichlorbenzene	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			

Key

●	resistant
⊛	limited resistant
○	not resistant
ng	not testet
*	stress cracking
GL	saturated solution
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Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
dichloroacetic*	technically pure	20	●	●	●
		40	●	●	●
		60	⊛	⊛	⊛
		80			
		100			
	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
dichloroacetic acid methyl esters	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
diesel *°		20	⊛	●	●
		40		●	
		60			⊛
		80			
		100			
diethylamine	technically pure	20	●	⊛	
		40			
		60			
		80			
		100			
diethyl ether	technically pure	20	●	○	⊛
		40			
		60			
		80			
		100			
diglycolic acid aqueous*	30%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
diisobutylketone	technically pure	20	●	○	●
		40			
		60	○		○
		80			
		100			
N,N- dimethylaniline	technically pure	20		○	
		40			
		60			
		80			
		100			
dimethylformamide	technically pure	20	●	○	●
		40	●		●
		60	●		⊛
		80			
		100			
dimethylamine	technically pure	20	●	⊛	●
		40			
		60			⊛
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
dinonylphthalate	technically pure	20	●	○	⊛
		40			
		60			
		80			
		100			
		120			
dioctylphthalate*	technically pure	20	●	○	⊛
		40			
		60	○		
		80			
		100			
dioxane	technically pure	20	⊛	○	●
		40	⊛		●
		60	⊛		●
		80	○		
		100			
fertilizer salts	hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
iron salts	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
acetic acid*	technically pure, (glacial acetic acid)	20	●	⊛	●
		40	●	○	●
		60	⊛		⊛
		80	○		
		100			
	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
acetic unhydride*	technically pure	20	●	○	●
		40	⊛		⊛
		60			
		80			
		100			
ethyl acetate	technically pure	20	●	○	●
		40	⊛		⊛
		60	⊛		⊛
		80			
		100			
ethyl alcohol*	technically pure 96%	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
ethyl alcohol*	technically pure	20	●	●	●
		40		●	●
		60		⊛	●
		80			
		100			
ethylbenzene	technically pure	20	⊛	○	
		40			
		60	○		
		80			
		100			
ethyl chloride	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
dicloroethane	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
ethylenediamine	technically pure	20	●	⊛	●
		40			●
		60			●
		80			
		100			
ehtylenediamine*	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
ethyle oxide	technically pure, liquid	20	⊛	○	○
		40			
		60			
		80			
		100			
fatty alcohol sulphonate*	hydrous	20	●	●	●
		40	●	●	●
		60	⊛	⊛	●
		80			
		100			
fatty acids >C6*	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	⊛
		80			
		100			
fluorine	technically pure	20	○	○	○
		40			
		60			
		80			
		100			
hydrofloric acids*	up to 40%, hydrous	20	●	●	●
		40	●	⊛	●
		60	●	⊛	⊛
		80			
		100			

EFV CHEMICAL RESISTANCE

Key

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Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
hydrofloric acids*	50% hydrous	20	●	●	●
		40	●		●
		60	●		⊛
		80			
		100			
	70%, hydrous	20	●	●	●
		40			
		60			⊛
		80			
		100			
formalde-hyde*	40%, hydrous	20	●	●	●
		40	●	●	●
		60			●
		80			
		100			
formamide	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
photo emul-sion*		20	●	●	●
		40	●	●	●
		60			
		80			
		100			
film developer*	usual	20	●	●	●
		40	●	●	●
		60		⊛	⊛
		80			
		100			
photo fixing baths*	usual	20	●	●	●
		40	●	●	●
		60		⊛	
		80			
		100			
frigen 12-	technically pure	20	○	●	○
		40			
		60			
		80			
		100			
fruit juices*		20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100			
furfuryl alcohol*	technically pure	20	●	○	●
		40			●
		60	⊛		●
		80			
		100			
gelatin	each, hydrous	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
tanner extracts* (vegetable)	usual	20	●	●	●
		40			
		60			
		80			
		100			
tannic acid (tannin)	each, hydrous	20	●	●	●
		40	●		●
		60	●		●
		80			
		100			
glucose (dextrose)	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
glycerin	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
aminoacetic acid*	10%, hydrous	20	●	●	●
		40	●	●	●
		60			
		80			
		100			
glycolic acid	37% hydrous	20	●	●	●
		40			●
		60			●
		80			
		100			
urea*	up to 30% hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
yeast	each, hydrous, suspension	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			
full oil		20	⊛	●	⊛
		40	○	⊛	○
		60			
		80			
		100			
n-heptane*	technically pure	20	●	●	●
		40			
		60	⊛		⊛
		80			
		100			
n- hexane*	technically pure	20	●	●	●
		40			
		60	⊛		⊛
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
hydracine hydrate*	hydrous	20	●	●	●
		40	●		●
		60	●		●
		80			
		100			
hydroquinone	GL	20		●	
		40		●	
		60			
		80			
		100			
hydroxy-lamine sulphate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●		●
		80			
		100			
iso butyl acetate	technically pure	20		○	
		40			
		60			
		80			
		100			
isooctane*	technically pure	20	●	●	●
		40			
		60	⊛		⊛
		80			
		100			
isopropanol*	technically pure	20	●	●	●
		40	●		●
		60	●		●
		80	●		
		100	●		
isopropyl-ether	technically pure	20	⊛	○	⊛
		40			
		60	○		○
		80			
		100			
tincture of iodine	6,5% iodine in ethanol	20	●	○	●
		40			
		60			○
		80			
		100			
potassium acetate*	GL	20		●	
		40		●	
		60		●	
		80			
		100			
potassium hydroxide	50% hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
potassium-aluminium sulphate (alum)	50% hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			

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Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
potassium bichromate*	saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
potassium borat	10% hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
potassium bromate	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	⊛
		80	●		
		100	●		
potassium bromide	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
potassium chlorate*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
potassium chloride	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
potassium chromate*	cold saturated, hydrous	20	●	●	●
		40	●	●	
		60	●	●	
		80			
		100			
potassium cyanide	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
potassium iodide	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
potassium nitrate	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
potassium perchlorate*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
potassium permanganate*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	⊛
		80			
		100			
potassium persulphate*	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
potassium phosphate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
potassium sulphate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
hexafluorosilic acid*	32% hydrous	20	●	●	●
		40		●	●
		60		●	●
		80			
		100			
carbon dioxide	technically pure, dry	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100			
carbonic acid	technically pure, moist	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
coconut oil alcohol*	technically pure	20	●	●	●
		40	●	⊛	●
		60	⊛		⊛
		80			
		100			
cocconut oil*	technically pure	20	●	●	●
		40	●	●	●
		60	●	⊛	⊛
		80			
		100			
nitrohydrochloric acid*	concentration 1:3 up to 1:6	20	○	●	○
		40		⊛	
		60			
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
cresols	cold saturated, hydrous	20	●	⊛	●
		40	●		●
		60			
		80			
		100			
cuprous salts	each, hydrous	20	●	●	●
		40	⊛	●	●
		60	○	⊛	●
		80			
		100			
lanolin* (wool fat)	technically pure	20	●	●	●
		40	●	⊛	●
		60	●		●
		80			
		100			
linseed oil*	technically pure	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
illuminating gas, benzol free		20	●	●	●
		40			
		60			
		80			
		100			
liquers		20	●	●	●
		40		●	●
		60			
		80			
		100			
magnesium salts	each hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
corn oil*	technically pure	20	●	⊛	●
		40	●		●
		60	⊛		⊛
		80			
		100			
maleic acid*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
marmelade		20	●	●	●
		40	●	⊛	●
		60	●	⊛	●
		80	●		
		100	●		
molasses		20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			

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Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
molasses flavour		20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
methane (natural gas)	technically pure	20	●	●	●
		40			
		60			
		80			
		100			
methanol* (methyl alcohol)	each	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
methyl acetate	technically pure	20	●	○	●
		40	●		
		60	⊛		
		80			
		100			
methylamine	32%, hydrous	20	●	⊛	●
		40			
		60			
		80			
		100			
methyl bromide	technically pure	20	○	○	⊛
		40			
		60			
		80			
		100			
methyl chloride	technically pure	20	○	○	⊛
		40			
		60			
		80			
		100			
methylene chloride	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
methyl ethyl ketone	technically pure	20	●	○	●
		40	⊛		⊛
		60	⊛		○
		80			
		100			
milk*		20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
lactic acid*	10%, hydrous	20	●	●	●
		40	●	⊛	●
		60	●	○	●
		80	●		
		100	●		

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
mineral oils, free from aromatic compounds		20	●	●	●
		40	●	●	●
		60	⊛	●	⊛
		80			
		100			
mineral water		20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
mixed acid		20	○	●	○
-acid sulphur	48%	40		⊛	
-nitric acid	49%	60		○	
-water	3%	80			
		100			
	50%	20	○	⊛	○
	50%	40		○	
	0%	60			
		80			
		100			
	10%	20	○	⊛	○
	87%	40			
	3%	60			
		80			
		100			
	50%	20	○	●	○
	31%	40			
	19%	60			
		80			
		100			
	50%	20	○	●	○
	33%	40		⊛	
	17%	60			
		80			
		100			
	10%	20	○	●	⊛
	20%	40		●	
	70%	60			
		80			
		100			
mixed acid		20	○	⊛	⊛
-nitric acid 15%	3 parts	40			
-hydrofluoric acid 3%	1 part	60			
-acid sulphur 18%	2 parts	80			
		100			
mixed acid		20	●	●	●
-acid sulphur	30%	40	⊛	●	⊛
-phosphoric acid	60%	60			
-water	10%	80			
		100			
mono chlorine acetic acid ethyl ester	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
mono chlorine acetic acid methyl ester	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
Morpholene	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
Mowilith D	usual	20	●	●	●
		40			
		60			
		80			
		100			
naphthalene	technically pure	20	●	○	●
		40			
		60			⊛
		80			
		100			
sodium acetate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
sodium benzoate	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium bromate	each, hydrous	20	●	●	●
		40	⊛	⊛	⊛
		60			
		80			
		100			
sodium bromide	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium carbonate (soda)	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
sodium chlorate*	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium chloride (table salt)	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			

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Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
sodium chlorite*	diluted, hydrous	20	●	●	●
		40	●		
		60	⊛		
		80			
		100			
sodium chromate*	diluted, hydrous	20	●	●	●
		40	●	●	
		60		⊛	
		80			
		100			
sodium disulphite	each, hydrous	20	●	●	●
		40		●	
		60		⊛	
		80			
		100			
sodium dithionite (-hydrosulfit)	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium fluoride	cold saturated, hydrous	20	●	●	●
		40		●	
		60			
		80			
		100			
sodium bicarbonate		20	●	●	●
	cold saturated, hydrous	40	●	●	●
		60	●	●	●
		80	●		
		100			
sodium hydrogen sulphate (Natriumup toulfat)	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium hydrogen sulphite (Natriumup toulfit)	each, hydrous	20	●	●	●
		40	●	⊛	●
		60	●	○	●
		80			
		100			
sodium hypochloride* (bleaching liquor)	12,5% activ clorine, hydrous	20	⊛	●	⊛
		40	○	●	○
		60		⊛	
		80			
		100			
sodium ioidide	each, hydrous	20	●	●	●
		40		●	
		60		⊛	
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
sodium nitrate (salpeter)	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium nitrite	cold saturated, hydrous	20	●	●	●
		40			
		60			
		80			
		100			
sodium oxalate	cold saturated, hydrous	20	●	●	●
		40		●	
		60		⊛	
		80			
		100			
sodium perborate	GL	20	ng	ng	ng
		40			
		60			
		80			
		100			
sodium perchlorate	GL	20	ng	ng	ng
		40			
		60			
		80			
		100			
sodium persulphate*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium phosphate	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
sodium silicate	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium sulphate (Glauber's salt)	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
sodium sulphide	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
sodium sulphite	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sodium thiosulphate (fixing salt)	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
caustic soda	up to 10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
	up to 40%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
	up to 50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
surfactants*	up to 5%, hydrous	20	●	●	●
		40	●	●	
		60	●	⊛	
		80			
		100			
nickel salt	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
nitrobenzene	technically pure	20	●	○	●
		40	●		●
		60	●		⊛
		80			
		100			
nitrous fumes	diluted, moist, dry	20	●	●	●
		40	⊛		●
		60	○	⊛	●
		80			
		100			
nitrotoluene (o-,m-,p-)	technically pure	20	●	○	●
		40	●		●
		60	⊛		⊛
		80			
		100			
fruit pulp		20	●	●	●
		40	●		●
		60	●		●
		80			
		100			

EFV CHEMICAL RESISTANCE

Key

●	resistant
⊛	limited resistant
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ng	not testet
*	stress cracking
GL	saturated solution
°	moisture expansion/softening

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
fruit wine		20	●	●	●
		40			
		60			
		80			
		100			
fats and oils*, vegetale		20	●	●	●
		40	●	⊛	⊛
		60	⊛		
		80			
		100			
oleum vapours*	low	20	○	●	○
		40			
		60			
		80			
		100			
olive oil*		20	●	●	●
		40	●	●	●
		60	●	●	⊛
		80	●		
		100			
oleic acid	technically pure	20	●	●	●
		40	●	●	●
		60	⊛	●	⊛
		80			
		100			
oxalic acid*	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
oxygen*	up to 2%, in air	20	⊛	●	⊛
		40	○		○
		60			
		80			
		100			
	cold saturated, hydrous	20	⊛	●	⊛
		40	○	●	○
		60			
		80			
		100			
palmitic acid*	technically pure	20	⊛	●	⊛
		40			
		60	○		
		80			
		100			
palm oil* (palm kernel oil)		20	●	●	●
		40	●	○	●
		60	⊛		⊛
		80			
		100			
paraffin emulsion	usual, hydrous	20	●	●	●
		40	●	●	●
		60	⊛		⊛
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
paraffin oil		20	●	●	●
		40	●	●	●
		60	⊛	⊛	●
		80			
		100			
perchloroethylene (tetrachloroethylene)	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
perchloric acid*	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
	70%, hydrous	20	⊛	⊛	●
		40	○		⊛
		60			○
		80			
		100			
petroleum ether*	technically pure	20	●	●	●
		40	●	●	⊛
		60	⊛	●	⊛
		80			
		100			
petroleum	technically pure	20	●	●	●
		40	⊛		●
		60	⊛		⊛
		80			
		100			
phenol*	up to 10%, hydrous	20	●	●	●
		40	●	⊛	●
		60	●		⊛
		80			
		100			
	up to 90%, hydrous	20	●	⊛	●
		40	●		●
		60	●		⊛
		80			
		100			
phenylhydrazine	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
phenylhydrazine-hydrochloride	hydrous	20	●	⊛	
		40	⊛		
		60	⊛		
		80			
		100			
phosgene*	technically pure, liquid	20	⊛	○	
		40			
		60			
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
phosgene*	technically pure, gaseous	20	⊛	●	⊛
		40		⊛	
		60		⊛	
		80			
		100			
phosphor chloride:*		20	●	○	●
-phosphor-tri-chloride	technically pure	40			
-phosphor-penta-chloride		60	⊛		⊛
		80			
		100			
-phosphoryl chloride		20	ng	ng	ng
		40			
		60			
		80			
		100			
phosphoric acid	up to 30%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
	up to 50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
	85%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	⊛
		80	●		
		100	●		
phthalic acid*	saturated, hydrous	20	●	●	●
		40	●	⊛	●
		60	●	○	●
		80			
		100			
picric acid*	1%, hydrous	20	●	●	●
		40			
		60			
		80			
		100			
potassium carbonate	cold saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●		
		80			
		100			
compressed air, oil emulsive		20	⊛	⊛	●
		40			●
		60			
		80			
		100			
propane	technically pure, liquid	20	●	●	●
		40			
		60			
		80			
		100			

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Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
propane	technically pure, gaseous	20	●	●	●
		40			
		60			
		80			
		100			
propanol,* n- and iso-	technically pure	20	●	●	●
		40	●	⊛	●
		60	●	⊛	●
		80			
		100			
propargyl alcohol*	7%, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
propanoic acid*	50%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
	technically pure	20	●	●	●
		40	⊛	⊛	⊛
		60	⊛		⊛
		80			
		100			
propylene glycol*	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
pyridine	technically pure	20	⊛	○	●
		40	⊛		⊛
		60	⊛		⊛
		80			
		100			
quicksilver	rein	20	●	●	●
		40			
		60			
		80			
		100			
quicksilver salts	cold, saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
ramasit	usual	20		●	
		40		●	
		60		●	
		80			
		100			
suet-emulsion,* sulphurized	usual	20	●	●	●
		40			
		60			
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
nitric acid*	6,3%, hydrous	20	●	●	●
		40		●	●
Attention:		60	⊛	●	●
regarding PVC-U glued connections		80			
please see introduction 2.3.1		100			
	up to 40%, hydrous	20	⊛	●	⊛
		40		●	
		60	○	⊛	○
		80			
		100			
	65%, hydrous	20	○	⊛	⊛
		40		⊛	○
		60		○	
		80			
		100			
	85%	20		○	
		40			
		60			
		80			
		100			
	100%	20	○	○	○
		40			
		60			
		80			
		100			
salt acid °-	5%, hydrous	20	●	●	●
		40	●	●	●
Attention:		60	●	⊛	●
regarding PVC-U glued connections		80	⊛		
please see introduction 2.3.1		100			
	10%, hydrous	20	●	●	●
		40	●	●	●
		60	⊛	⊛	●
		80	⊛		
		100			
	up to 30%, hydrous	20	●	●	●
		40	⊛	●	●
		60	⊛	⊛	●
		80	○		
		100			
	36%, hydrous	20	●	●	●
		40	⊛	●	●
		60	○	⊛	●
		80			
		100			
dioxygen	technically pure	20	●	●	●
		40		●	●
		60	⊛	●	⊛
		80			
		100			
lubricating grease*		20	⊛	●	●
		40		●	●
		60		●	⊛
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
sulphur	technically pure	20	●	⊛	●
		40	●	○	●
		60	●		●
		80	●		
		100			
sulphur dioxide	technically pure, dry	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
	each, moist	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
	technically pure	20	○	○	○
	liquid	40			
		60			
		80			
		100			
carbon disulphide	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
sodium sulphide		20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
acid sulfur*	up to 40%, hydrous	20	●	●	●
		40	●	●	●
Attention:		60	●	⊛	●
regarding PVC-U glued connections		80			
please see introduction 2.3.1		100			
	up to 60%,* hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
	up to 80%, hydrous	20	●	●	●
		40	●	●	●
		60	⊛	●	⊛
		80			
		100			
	90%, hydrous*	20	⊛	●	⊛
		40		●	
		60			
		80			
		100			
	96%, hydrous*	20	○	●	○
		40		●	
		60		⊛	
		80			
		100			

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Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
hydrogen sulphide	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	⊛
		80			
		100			
	saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
sulfurous acid	saturated, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
seawater		20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
soap solution*	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
silver salt	cold, saturated, hydrous	20	●	●	●
	suspension	40	●	●	●
		60	●	⊛	●
		80			
		100			
silicone oil		20	●	●	●
		40	●	⊛	●
		60	●	○	●
		80	●		
		100	●		
spindle oil		20	●	⊛	⊛
		40	⊛		
		60	○		⊛
		80			
		100			
spinning bath acids*	100 mg CS_2/l	20	●	●	●
containing CS_2		40		●	
		60			
		80			
		100			
		120			
	200 mg CS_2/l	20	●	⊛	●
		40			
		60			
		80			
		100			
		120			
	700 mg CS_2/l	20	●	○	●
		40			
		60			
		80			
		100			
		120			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
spirituous beverages	ca. 40% (ethyl alcohol)	20	●	●	●
		40			
		60			
		80			
		100			
starch solution	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
starch syrup	usual	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
stearic acid*	technically pure	20	●	●	●
		40		●	
		60	⊛	●	⊛
		80			
		100			
sebum*	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
oil of turpentine*	technically pure	20	○	●	⊛
		40		⊛	⊛
		60			
		80			
		100			
tetrachloromethane	technically pure	20	○	○	○
		40			
		60			
		80			
		100			
tetrahydrofuran	technically pure	20	○	○	⊛
		40			
		60			
		80			
		100			
tetrahydronaphthalin	technically pure	20	○	○	⊛
		40			
		60			
		80			
		100			
toluol	technically pure	20	⊛	○	⊛
		40	○		
		60			○
		80			
		100			
triethanolamine*	technically pure	20	●	⊛	●
		40			●
		60			●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material PP	PVC	PE
tributyl phosphate	technically pure	20	●	○	●
		40	●		●
		60	●		●
		80			
		100			
trichloroethane	technically pure	20	⊛	○	⊛
		40			
		60			
		80			
		100			
trichloroethylene	technically pure	20	⊛	○	○
		40			
		60			
		80			
		100			
trichloroacetic acid*	technically pure	20	●	⊛	●
		40	●		⊛
		60	●		○
		80			
		100			
	50%, hydrous	20	●	●	●
		40	●	⊛	●
		60	●		●
		80			
		100			
1, 1, 2-trichloro-1, 2, 2-trifluoroethane* (freon 113)	technically pure	20		●	
		40		●	
		60			
		80			
		100			
tri-kresyl phosphate*	technically pure	20	●	○	●
		40			●
		60	⊛		●
		80			
		100			
tri-octyl phosphate*	technically pure	20	●	○	⊛
		40			
		60			
		80			
		100			
urine		20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
vaseline	technically pure	20	●	⊛	⊛
		40		○	
		60	⊛		○
		80			
		100			
vinyl acetate	technically pure	20	●	○	
		40			
		60	⊛		
		80			
		100			

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
vinyl chloride	technically pure	20		○	
		40			
		60			
		80			
		100			
viscose-spinning solution		20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100			
wax alcohol*	technically pure	20	⊛	●	⊛
		40	○	●	○
		60		●	
		80			
		100			
detergent*	for suds usual	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
water (distilled, deionized, completely desalinated)		20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
water, drinking water chlorinated		20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100	●		
water, sewage water without organic solvents		20	●	●	●
		40	●	●	●
		60	●		●
		80	●		
		100			
water, condensaton		20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100			
hydrogen	technically pure	20	●	●	●
		40	●	●	●
		60	●	●	●
		80			
		100	○		
hydrogen peroxide*	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
	30%, hydrous	20	●	●	●
		40	●	●	●
		60	⊛		●
		80			
		100			

Agressive Medium	Concentration	Temperature	Material		
			PP	PVC	PE
	50%, hydrous	20		●	●
		40			
		60			
		80			
		100			
	90%, hydrous	20	○	●	●
		40			
		60			○
		80			
		100			
wine, red and white	usual	20	●	●	●
		40	●		●
		60	●		●
		80			
		100			
wine vinegar* (vinegar)	usual	20	●	●	●
		40	●	●	●
		60	●	●	●
		80	●		
		100			
acidity of wine	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
xylol	technically pure	20	○	○	○
		40			
		60			
		80			
		100			
zinc salts	each, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80			
		100			
citric acid	10%, hydrous	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		
sugar syrup	usual	20	●	●	●
		40	●	●	●
		60	●	⊛	●
		80	●		
		100	●		

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TEL: 618.476.6300
FAX: 618.476.6301
Toll Free: 844.393.3985
www.basor.com