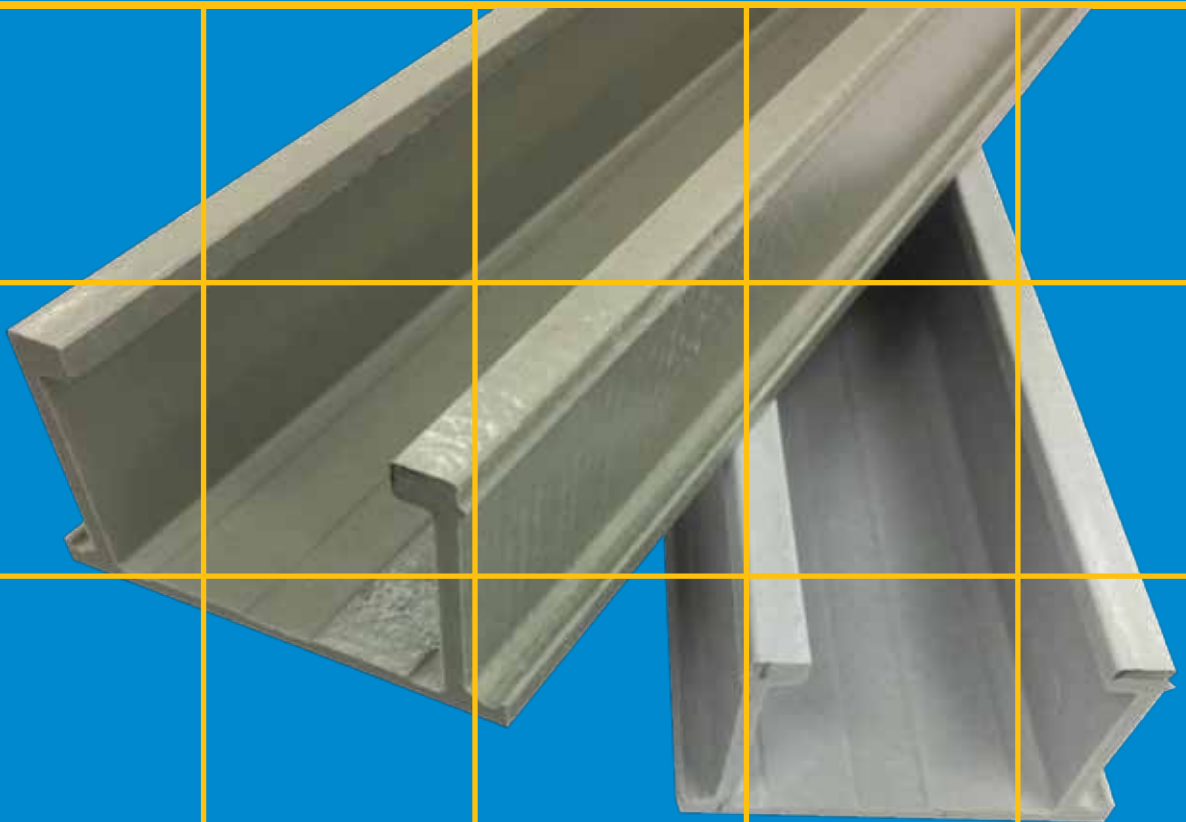


Power Solution Industries

DESIGN, ENGINEERING & MANUFACTURING COMPANY



PRODUCT CATALOGUE



CERTIFIED

FRP CABLE TRAY SYSTEMS

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EDITION 2023



Engineered to Excellence

DESIGN, ENGINEERING & MANUFACTURING COMPANY

Power Solution Industries quality plan conforms comprehensively to ISO 9001:2015, ISO 45001: 2018, ISO14001: 2015. The quality assessment and reviews are carried out by DET NORSKE VERITAS. The organization defines its quality objectives at the various levels of the company in order to achieve continual improvement in quality management system.

FRP CABLE TRAYS & LADDERS

FRP CABLE MANAGEMENT SYSTEMS

FRP (Fiber Reinforced Plastic) Cable Trays & Ladders are considered over traditional Materials like Steel & Aluminum in many areas due to its key advantages like

- **LIGHT WEIGHT**
- **HIGH STRENGTH**
- **CORROSION RESISTANT**
- **WEATHER RESISTANT**
- **FIRE RETARDANT**
- **EASY INSTALLATION**
- **NON CONDUCTIVE**
- **NON MAGNETIC**

Due to these advantages FRP Trays and Ladders are used in

- **OFFSHORE/ ONSHORE PLATFORMS**
- **REFINERIES**
- **WASTE WATER TREATMENT PLANTS**
- **CHEMICAL PLANTS**
- **POWER PLANTS ETC. ...**

These FRP Cable Trays & Ladders are manufactured by Pultrusion Process.

PULTRUSION PROCESS

Pultrusion is a manufacturing process for producing continuous length of FRP / GRP Products. Raw material includes Fiberglass (Roving's & Mat), Resin mixture (ISO or vinyl or Epoxy) with special Additives. The process involves pulling these raw material through a heated die using a continuous process to achieve the desired structural shape. This process make high quality FRP manufacturing, cost-efficient and eco friendly.

STANDARD FINISHES

FINISH	DESCRIPTION
FR	ISO polyester resin system meeting fire rating standard
AS	ISO polyester resin system, fire rated with antistatic properties
VL	Vinyl ester resin system meeting fire rating requirements

PFL150 FIBERGLASS CABLE LADDER

STRAIGHT LENGTH - 6 M

Cable Ladder of 150mm Height achieving NEMA 20C according to NEMA FG-1 Standard

- Change FR to AS or VL for resin change

DESCRIPTION	PART NUMBER
PFL150(FR) ST / 150 / 6000 mm	1506110(FR)
PFL150(FR) ST / 300 / 6000 mm	1506111(FR)
PFL150(FR) ST / 450 / 6000 mm	1506112(FR)
PFL150(FR) ST / 600 / 6000 mm	1506113(FR)
PFL150(FR) ST / 750 / 6000 mm	1506114(FR)
PFL150(FR) ST / 900 / 6000 mm	1506115(FR)



STRAIGHT LENGTH - 3 M

- Change FR to AS or VL for resin change

DESCRIPTION	PART NUMBER
PFL150 (FR) ST / 150 / 3000 mm	1503110 (FR)
PFL150 (FR) ST / 300 / 3000 mm	1503111 (FR)
PFL150 (FR) ST / 450 / 3000 mm	1503112 (FR)
PFL150 (FR) ST / 600 / 3000 mm	1503113 (FR)
PFL150 (FR) ST / 750 / 3000 mm	1503114 (FR)
PFL150 (FR) ST / 900 / 3000 mm	1503115 (FR)



90° HORIZONTAL ELBOW (RADIUS 300 MM)

DESCRIPTION	PART NUMBER
PFL150 (FR) EL / 90 / 150 / R300	150120(FR)
PFL150 (FR) EL / 90 / 300 / R300	150121(FR)
PFL150 (FR) EL / 90 / 450 / R300	150122(FR)
PFL150 (FR) EL / 90 / 600 / R300	150123(FR)
PFL150 (FR) EL / 90 / 750 / R300	150124(FR)
PFL150 (FR) EL / 90 / 900 / R300	150125(FR)



90° HORIZONTAL ELBOW (RADIUS 600 MM)

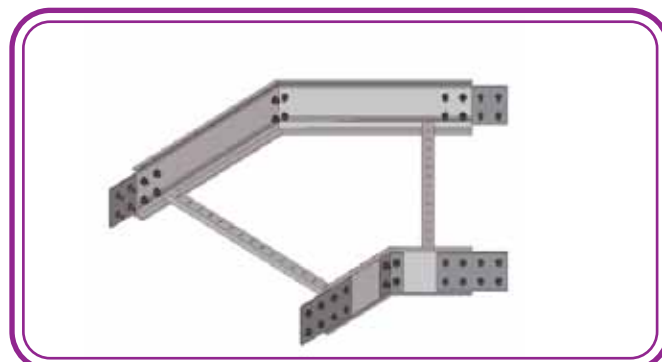
DESCRIPTION	PART NUMBER
PFL150 (FR) EL / 90 / 150 / R600	150320(FR)
PFL150 (FR) EL / 90 / 300 / R600	150321(FR)
PFL150 (FR) EL / 90 / 450 / R600	150322(FR)
PFL150 (FR) EL / 90 / 600 / R600	150323(FR)
PFL150 (FR) EL / 90 / 750 / R600	150324(FR)
PFL150 (FR) EL / 90 / 900 / R600	150325(FR)



PFL150 FIBERGLASS CABLE LADDER

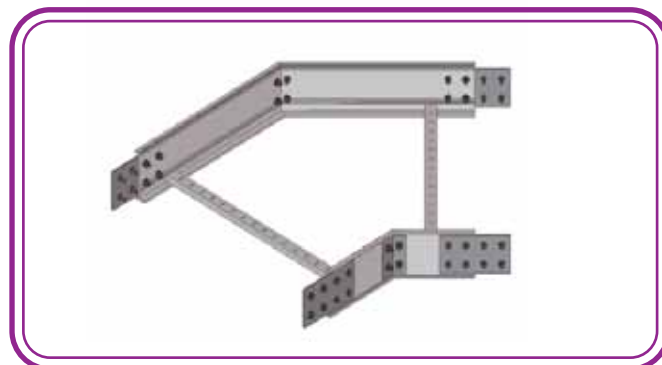
45° HORIZONTAL ELBOW (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL150 (FR) EL / 45 / 150 / R300	150130 (FR)
PFL150 (FR) EL / 45 / 300 / R300	150131 (FR)
PFL150 (FR) EL / 45 / 450 / R300	150132 (FR)
PFL150 (FR) EL / 45 / 600 / R300	150133 (FR)
PFL150 (FR) EL / 45 / 750 / R300	150134 (FR)
PFL150 (FR) EL / 45 / 900 / R300	150135 (FR)



45° HORIZONTAL ELBOW (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL150 (FR) EL / 45 / 150 / R600	150330 (FR)
PFL150 (FR) EL / 45 / 300 / R600	150331 (FR)
PFL150 (FR) EL / 45 / 450 / R600	150332 (FR)
PFL150 (FR) EL / 45 / 600 / R600	150333 (FR)
PFL150 (FR) EL / 45 / 750 / R600	150334 (FR)
PFL150 (FR) EL / 45 / 900 / R600	150335 (FR)



TEE HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL150 (FR) TE / 150 / 150 / R300	150140 (FR)
PFL150 (FR) TE / 300 / 300 / R300	150141 (FR)
PFL150 (FR) TE / 450 / 450 / R300	150142 (FR)
PFL150 (FR) TE / 600 / 600 / R300	150143 (FR)
PFL150 (FR) TE / 750 / 750 / R300	150144 (FR)
PFL150 (FR) TE / 900 / 900 / R300	150145 (FR)

- For uneven tee piece, please contact customer care

TEE HORIZONTAL (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL150 (FR) TE / 150 / 150 / R600	150150 (FR)
PFL150 (FR) TE / 300 / 300 / R600	150151 (FR)
PFL150 (FR) TE / 450 / 450 / R600	150152 (FR)
PFL150 (FR) TE / 600 / 600 / R600	150153 (FR)
PFL150 (FR) TE / 750 / 750 / R600	150154 (FR)
PFL150 (FR) TE / 900 / 900 / R600	150155 (FR)

- For uneven tee piece, please contact customer care



PFL150 FIBERGLASS CABLE LADDER

CROSS HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL150 (FR) CR / 150 / 150 / R300	150160 (FR)
PFL150 (FR) CR / 300 / 300 / R300	150161 (FR)
PFL150 (FR) CR / 450 / 450 / R300	150162 (FR)
PFL150 (FR) CR / 600 / 600 / R300	150163 (FR)
PFL150 (FR) CR / 750 / 750 / R300	150164 (FR)
PFL150 (FR) CR / 900 / 900 / R300	150165 (FR)

- For uneven cross piece, please contact customer care



CROSS HORIZONTAL (RADIUS 600)

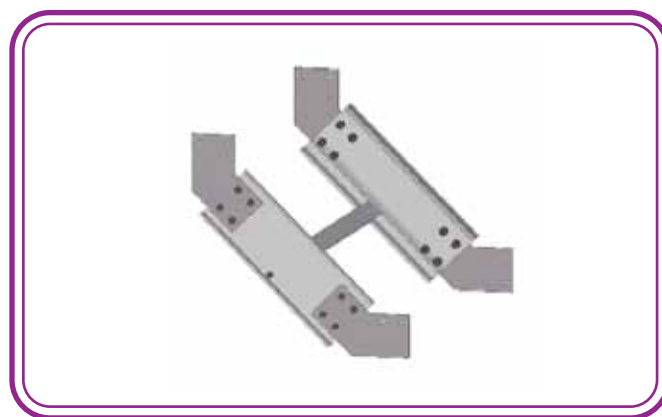
DESCRIPTION	PART NUMBER
PFL150 (FR) CR / 150 / 150 / R600	150170 (FR)
PFL150 (FR) CR / 300 / 300 / R600	150171 (FR)
PFL150 (FR) CR / 450 / 450 / R600	150172 (FR)
PFL150 (FR) CR / 600 / 600 / R600	150173 (FR)
PFL150 (FR) CR / 750 / 750 / R600	150174 (FR)
PFL150 (FR) CR / 900 / 900 / R600	150175 (FR)

- For uneven cross piece, please contact customer care



INSIDE RISER (RADIUS 400)

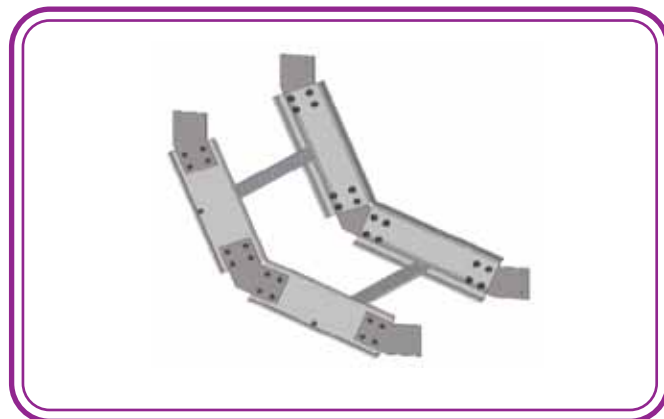
DESCRIPTION	PART NUMBER
PFL150 (FR) IR / 90 / 150 / R400	150180 (FR)
PFL150 (FR) IR / 90 / 300 / R400	150181 (FR)
PFL150 (FR) IR / 90 / 450 / R400	150182 (FR)
PFL150 (FR) IR / 90 / 600 / R400	150183 (FR)
PFL150 (FR) IR / 90 / 750 / R400	150184 (FR)
PFL150 (FR) IR / 90 / 900 / R400	150185 (FR)



PFL150 FIBERGLASS CABLE LADDER

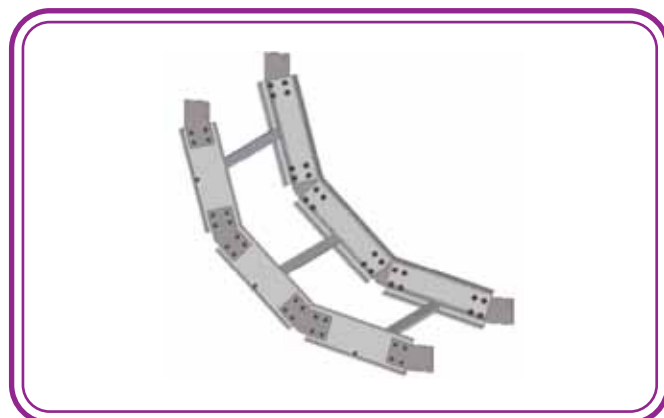
INSIDE RISER (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL150 (FR) IR / 90 / 150 / R600	150190 (FR)
PFL150 (FR) IR / 90 / 300 / R600	150191 (FR)
PFL150 (FR) IR / 90 / 450 / R600	150192 (FR)
PFL150 (FR) IR / 90 / 600 / R600	150193 (FR)
PFL150 (FR) IR / 90 / 750 / R600	150194 (FR)
PFL150 (FR) IR / 90 / 900 / R600	150195 (FR)



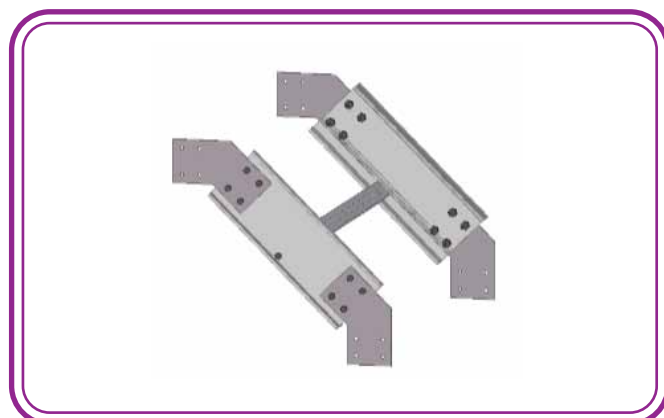
INSIDE RISER (RADIUS 800)

DESCRIPTION	PART NUMBER
PFL150 (FR) IR / 90 / 150 / R800	150210 (FR)
PFL150 (FR) IR / 90 / 300 / R800	150211 (FR)
PFL150 (FR) IR / 90 / 450 / R800	150212 (FR)
PFL150 (FR) IR / 90 / 600 / R800	150213 (FR)
PFL150 (FR) IR / 90 / 750 / R800	150214 (FR)
PFL150 (FR) IR / 90 / 900 / R800	150215 (FR)



OUTSIDE RISER (RADIUS 400)

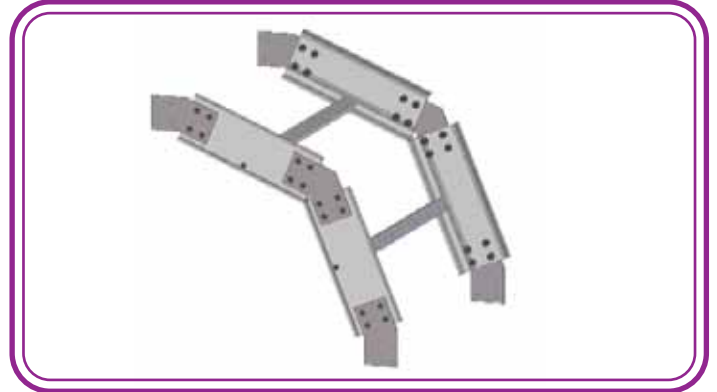
DESCRIPTION	PART NUMBER
PFL150 (FR) OR / 90 / 150 / R400	150220 (FR)
PFL150 (FR) OR / 90 / 300 / R400	150221 (FR)
PFL150 (FR) OR / 90 / 450 / R400	150222 (FR)
PFL150 (FR) OR / 90 / 600 / R400	150223 (FR)
PFL150 (FR) OR / 90 / 750 / R400	150224 (FR)
PFL150 (FR) OR / 90 / 900 / R400	150225 (FR)



PFL150 FIBERGLASS CABLE LADDER

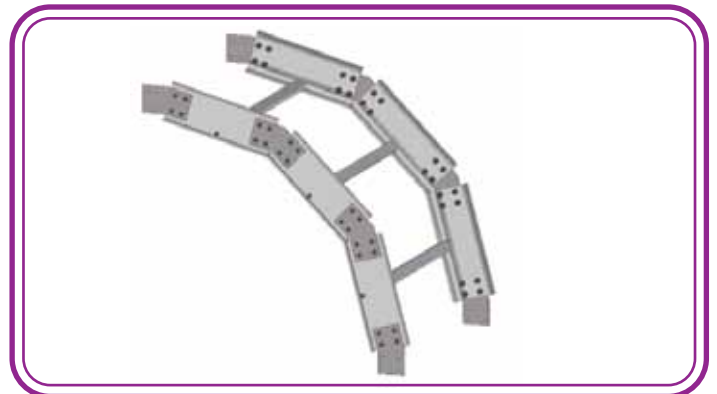
OUTSIDE RISER (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL150 (FR) OR / 90 / 150 / R600	150230 (FR)
PFL150 (FR) OR / 90 / 300 / R600	150231 (FR)
PFL150 (FR) OR / 90 / 450 / R600	150232 (FR)
PFL150 (FR) OR / 90 / 600 / R600	150233 (FR)
PFL150 (FR) OR / 90 / 750 / R600	150234 (FR)
PFL150 (FR) OR / 90 / 900 / R600	150235 (FR)



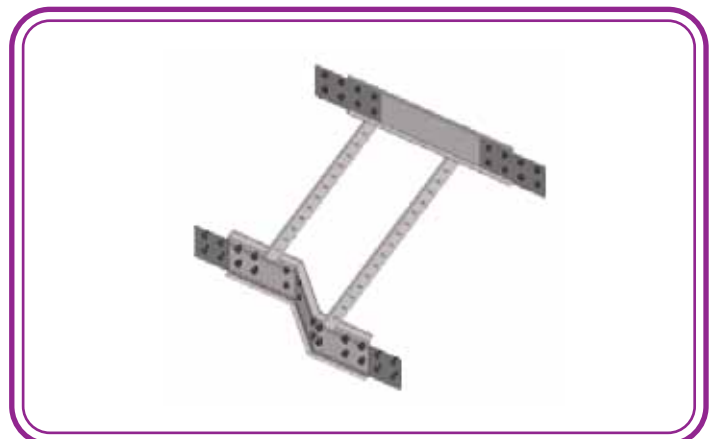
OUTSIDE RISER (RADIUS 800)

DESCRIPTION	PART NUMBER
PFL150 (FR) OR / 90 / 150 / R800	150240 (FR)
PFL150 (FR) OR / 90 / 300 / R800	150241 (FR)
PFL150 (FR) OR / 90 / 450 / R800	150242 (FR)
PFL150 (FR) OR / 90 / 600 / R800	150243 (FR)
PFL150 (FR) OR / 90 / 750 / R800	150244 (FR)
PFL150 (FR) OR / 90 / 900 / R800	150245 (FR)



REDUCER LEFT

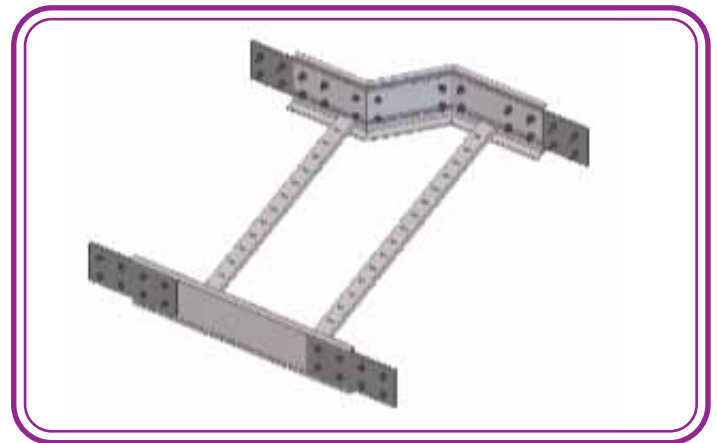
DESCRIPTION	PART NUMBER
PFL150 (FR) RL / 300 / 150	150250(FR)
PFL150 (FR) RL / 450 / 150	150251(FR)
PFL150 (FR) RL / 600 / 150	150252(FR)
PFL150 (FR) RL / 450 / 300	150253(FR)
PFL150 (FR) RL / 600 / 300	150254(FR)
PFL150 (FR) RL / 750 / 300	150255(FR)
PFL150 (FR) RL / 900 / 300	150256(FR)
PFL150 (FR) RL / 600 / 450	150257(FR)
PFL150 (FR) RL / 750 / 450	150258(FR)
PFL150 (FR) RL / 900 / 450	150259(FR)
PFL150 (FR) RL / 750 / 600	150260(FR)
PFL150 (FR) RL / 900 / 600	150261(FR)
PFL150 (FR) RL / 900 / 750	150262(FR)



PFL150 FIBERGLASS CABLE LADDER

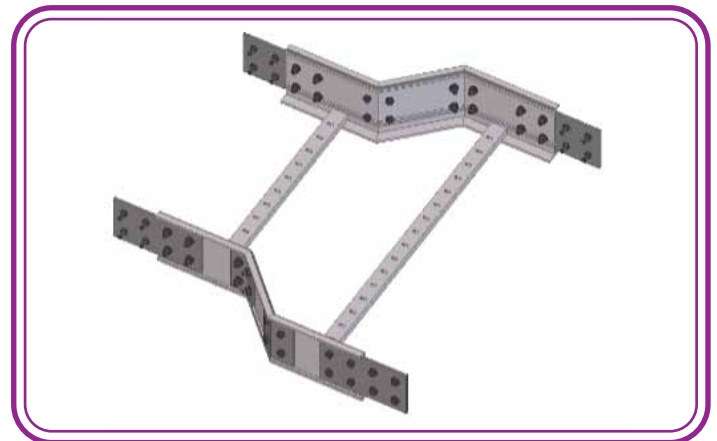
REDUCER RIGHT

DESCRIPTION	PART NUMBER
PFL150 (FR) RR / 300 / 150	150263(FR)
PFL150 (FR) RR / 450 / 150	150264(FR)
PFL150 (FR) RR / 600 / 150	150265(FR)
PFL150 (FR) RR / 450 / 300	150266(FR)
PFL150 (FR) RR / 600 / 300	150267(FR)
PFL150 (FR) RR / 750 / 300	150268(FR)
PFL150 (FR) RR / 900 / 300	150269(FR)
PFL150 (FR) RR / 600 / 450	150270(FR)
PFL150 (FR) RR / 750 / 450	150271(FR)
PFL150 (FR) RR / 900 / 450	150272(FR)
PFL150 (FR) RR / 750 / 600	150273(FR)
PFL150 (FR) RR / 900 / 600	150274(FR)
PFL150 (FR) RR / 900 / 750	150275(FR)



REDUCER STRAIGHT

DESCRIPTION	PART NUMBER
PFL150 (FR) RS / 300 / 150	150276 (FR)
PFL150 (FR) RS / 450 / 150	150277 (FR)
PFL150 (FR) RS / 600 / 150	150278 (FR)
PFL150 (FR) RS / 450 / 300	150279 (FR)
PFL150 (FR) RS / 600 / 300	150280 (FR)
PFL150 (FR) RS / 750 / 300	150281 (FR)
PFL150 (FR) RS / 900 / 300	150282 (FR)
PFL150 (FR) RS / 600 / 450	150283 (FR)
PFL150 (FR) RS / 750 / 450	150284 (FR)
PFL150 (FR) RS / 900 / 450	150285 (FR)
PFL150 (FR) RS / 750 / 600	150286 (FR)
PFL150 (FR) RS / 900 / 600	150287 (FR)
PFL150 (FR) RS / 900 / 750	150288 (FR)



PFL150 FIBERGLASS CABLE LADDER ACCESSORIES

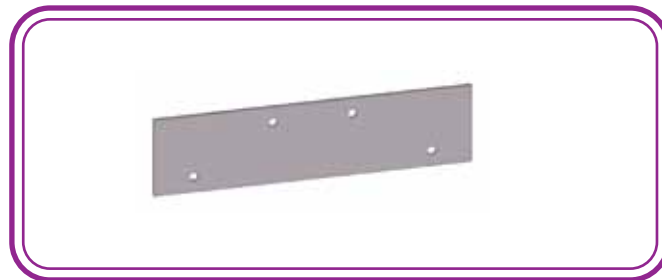
DIVIDER

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL150(FR) DI	3 x M6	150299 (FR)



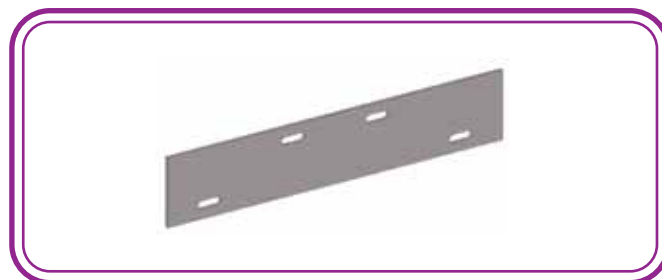
SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 150 SC (SS)	4 x M8	15010 (SS)



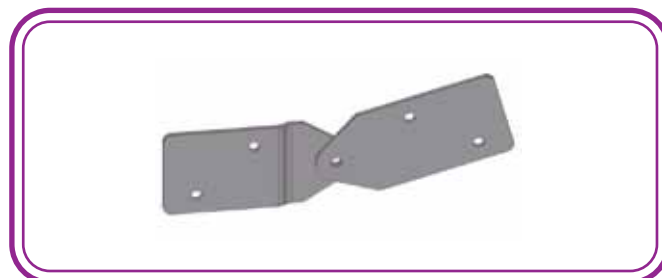
EXPANSION SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 150 ES (SS)	4 x M8	15011 (SS)



SPLICE ANGLE VERTICAL

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 150 SV (SS)	4 x M8	15012 (SS)



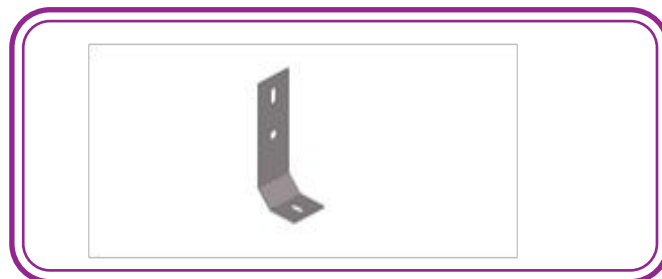
FIXING CLAMP (FOR HORIZONTAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 150 FXH (SS)	1 X M8	15013 (SS)



FIXING CLAMP (FOR HORIZONTAL & VERTICAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 150 FXHV (SS)	2 x M8	15014 (SS)



PFL 100 FIBERGLASS CABLE LADDER

STRAIGHT LENGTH - 3 M

Cable Ladder of 100mm Height achieving NEMA 12 C according to NEMA FG-1 Standard

- Change FR to AS or VL for resin change

DESCRIPTION	PART NUMBER
PFL100(FR) ST / 150 / 3000 mm	1003110(FR)
PFL100(FR) ST / 300 / 3000 mm	1003111(FR)
PFL100(FR) ST / 450 / 3000 mm	1003112(FR)
PFL100(FR) ST / 600 / 3000 mm	1003113(FR)
PFL100(FR) ST / 750 / 3000 mm	1003114(FR)
PFL100(FR) ST / 900 / 3000 mm	1003115(FR)



90° ELBOW HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL100 (FR) EL / 90 / 150 / R300	100120 (FR)
PFL100 (FR) EL / 90 / 300 / R300	100121 (FR)
PFL100 (FR) EL / 90 / 450 / R300	100122 (FR)
PFL100 (FR) EL / 90 / 600 / R300	100123 (FR)
PFL100 (FR) EL / 90 / 750 / R300	100124 (FR)
PFL100 (FR) EL / 90 / 900 / R300	100125 (FR)



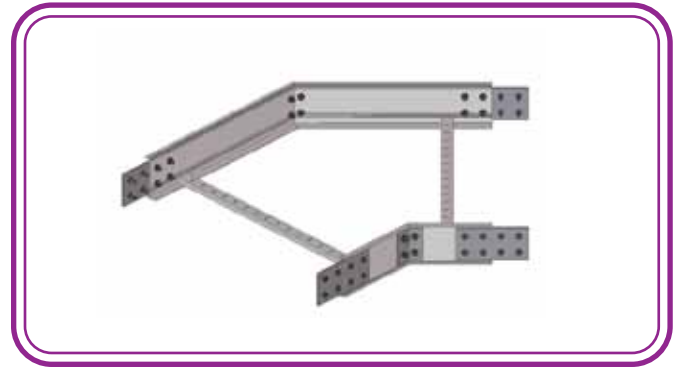
90° ELBOW HORIZONTAL (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL100 (FR) EL / 90 / 150 / R600	100320 (FR)
PFL100 (FR) EL / 90 / 300 / R600	100321 (FR)
PFL100 (FR) EL / 90 / 450 / R600	100322 (FR)
PFL100 (FR) EL / 90 / 600 / R600	100323 (FR)
PFL100 (FR) EL / 90 / 750 / R600	100324 (FR)
PFL100 (FR) EL / 90 / 900 / R600	100325 (FR)



45° ELBOW HORIZONTAL (RADIUS 300)

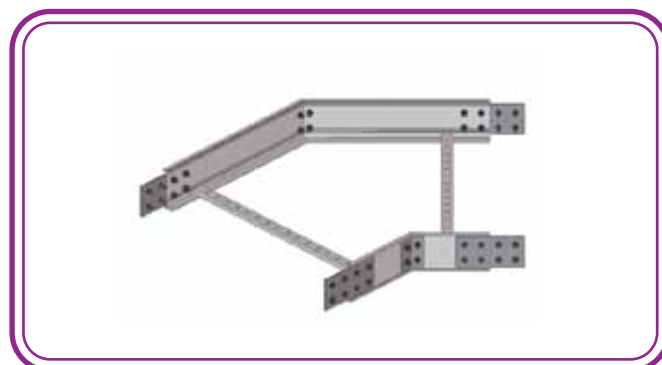
DESCRIPTION	PART NUMBER
PFL100 (FR) EL / 45 / 150 / R300	100130 (FR)
PFL100 (FR) EL / 45 / 300 / R300	100131 (FR)
PFL100 (FR) EL / 45 / 450 / R300	100132 (FR)
PFL100 (FR) EL / 45 / 600 / R300	100133 (FR)
PFL100 (FR) EL / 45 / 750 / R300	100134 (FR)
PFL100 (FR) EL / 45 / 900 / R300	100135 (FR)



PFL100 FIBERGLASS CABLE LADDER

45° ELBOW HORIZONTAL (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL100 (FR) EL / 45 / 150 / R600	100330 (FR)
PFL100 (FR) EL / 45 / 300 / R600	100331 (FR)
PFL100 (FR) EL / 45 / 450 / R600	100332 (FR)
PFL100 (FR) EL / 45 / 600 / R600	100333 (FR)
PFL100 (FR) EL / 45 / 750 / R600	100334 (FR)
PFL100 (FR) EL / 45 / 900 / R600	100335 (FR)



TEE HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL100 (FR) TE / 150 / 150 / R300	100140 (FR)
PFL100 (FR) TE / 300 / 300 / R300	100141 (FR)
PFL100 (FR) TE / 450 / 450 / R300	100142 (FR)
PFL100 (FR) TE / 600 / 600 / R300	100143 (FR)
PFL100 (FR) TE / 750 / 750 / R300	100144 (FR)
PFL100 (FR) TE / 900 / 900 / R300	100145 (FR)



- For uneven tee piece, please contact customer care

TEE HORIZONTAL (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL100 (FR) TE / 150 / 150 / R600	100150(FR)
PFL100 (FR) TE / 300 / 300 / R600	100151(FR)
PFL100 (FR) TE / 450 / 450 / R600	100152(FR)
PFL100 (FR) TE / 600 / 600 / R600	100153(FR)
PFL100 (FR) TE / 750 / 750 / R600	100154(FR)
PFL100 (FR) TE / 900 / 900 / R600	100155(FR)



- For uneven tee piece, please contact customer care

CROSS HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL100 (FR) CR / 150 / 150 / R300	100160 (FR)
PFL100 (FR) CR / 300 / 300 / R300	100161 (FR)
PFL100 (FR) CR / 450 / 450 / R300	100162 (FR)
PFL100 (FR) CR / 600 / 600 / R300	100163 (FR)
PFL100 (FR) CR / 750 / 750 / R300	100164 (FR)
PFL100 (FR) CR / 900 / 900 / R300	100165 (FR)



- For uneven cross piece, please contact customer care

PFL100 FIBERGLASS CABLE LADDER

CROSS HORIZONTAL (RADIUS 600)

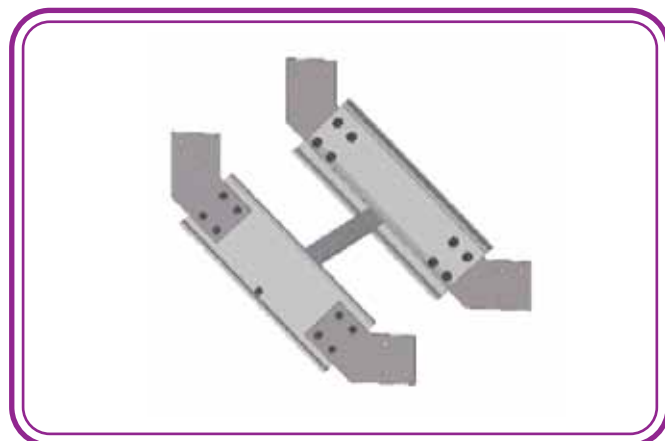
DESCRIPTION	PART NUMBER
PFL100 (FR) CR / 150 / 150 / R600	100170 (FR)
PFL100 (FR) CR / 300 / 300 / R600	100171 (FR)
PFL100 (FR) CR / 450 / 450 / R600	100172 (FR)
PFL100 (FR) CR / 600 / 600 / R600	100173 (FR)
PFL100 (FR) CR / 750 / 750 / R600	100174 (FR)
PFL100 (FR) CR / 900 / 900 / R600	100175 (FR)

- For uneven cross piece, please contact customer care



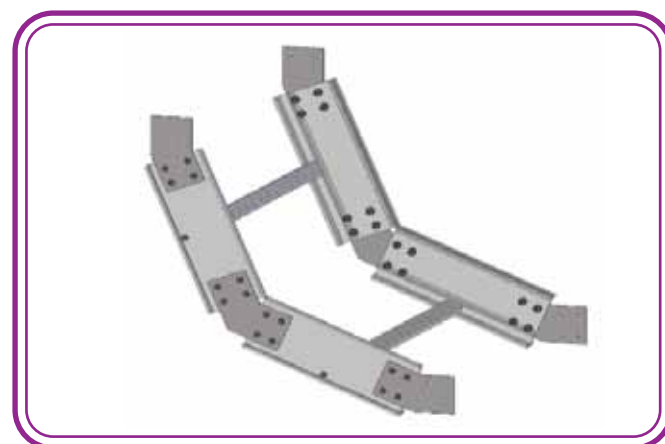
INSIDE RISER (RADIUS 400)

DESCRIPTION	PART NUMBER
PFL100 (FR) IR / 90 / 150 / R400	100180 (FR)
PFL100 (FR) IR / 90 / 300 / R400	100181 (FR)
PFL100 (FR) IR / 90 / 450 / R400	100182 (FR)
PFL100 (FR) IR / 90 / 600 / R400	100183 (FR)
PFL100 (FR) IR / 90 / 750 / R400	100184 (FR)
PFL100 (FR) IR / 90 / 900 / R400	100185 (FR)



INSIDE RISER (RADIUS 600)

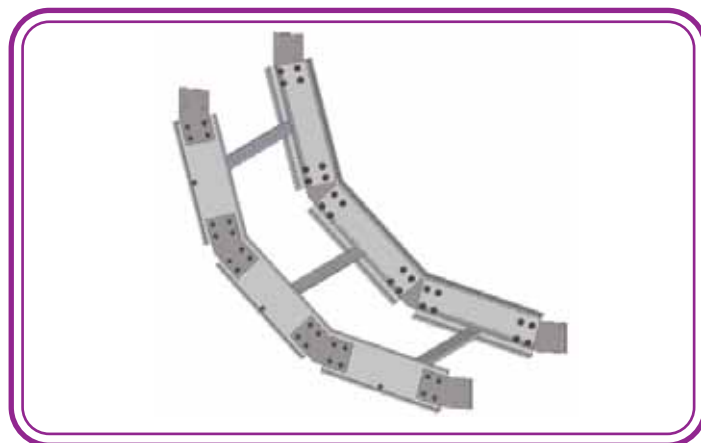
DESCRIPTION	PART NUMBER
PFL100 (FR) IR / 90 / 150 / R600	100190 (FR)
PFL100 (FR) IR / 90 / 300 / R600	100191 (FR)
PFL100 (FR) IR / 90 / 450 / R600	100192 (FR)
PFL100 (FR) IR / 90 / 600 / R600	100193 (FR)
PFL100 (FR) IR / 90 / 750 / R600	100194 (FR)
PFL100 (FR) IR / 90 / 900 / R600	100195 (FR)



PFL100 FIBERGLASS CABLE LADDER

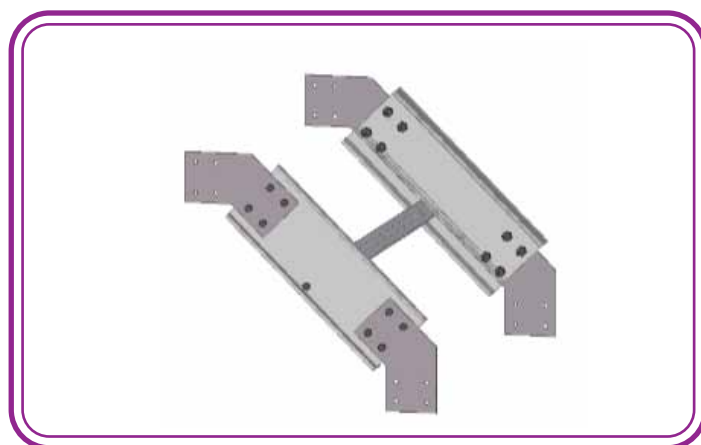
INSIDE RISER (RADIUS 800)

DESCRIPTION	PART NUMBER
PFL100 (FR) IR / 90 / 150 / R800	100210 (FR)
PFL100 (FR) IR / 90 / 300 / R800	100211 (FR)
PFL100 (FR) IR / 90 / 450 / R800	100212 (FR)
PFL100 (FR) IR / 90 / 600 / R800	100213 (FR)
PFL100 (FR) IR / 90 / 750 / R800	100214 (FR)
PFL100 (FR) IR / 90 / 900 / R800	100215 (FR)



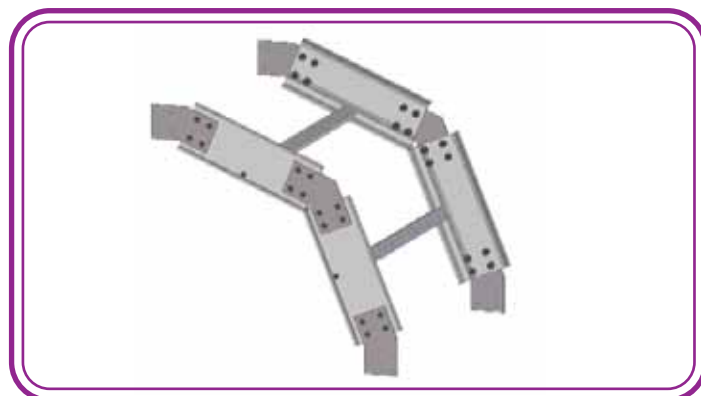
OUTSIDE RISER (RADIUS 400)

DESCRIPTION	PART NUMBER
PFL100 (FR) OR / 90 / 150 / R400	100220 (FR)
PFL100 (FR) OR / 90 / 300 / R400	100221 (FR)
PFL100 (FR) OR / 90 / 450 / R400	100222 (FR)
PFL100 (FR) OR / 90 / 600 / R400	100223 (FR)
PFL100 (FR) OR / 90 / 750 / R400	100224 (FR)
PFL100 (FR) OR / 90 / 900 / R400	100225 (FR)



OUTSIDE RISER (RADIUS 600)

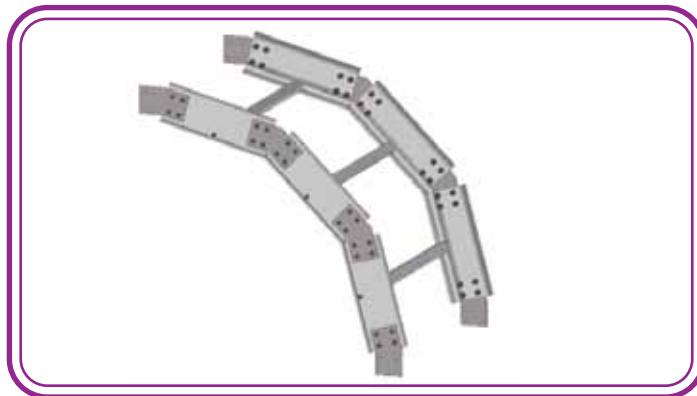
DESCRIPTION	PART NUMBER
PFL100 (FR) OR / 90 / 150 / R600	100230 (FR)
PFL100 (FR) OR / 90 / 300 / R600	100231 (FR)
PFL100 (FR) OR / 90 / 450 / R600	100232 (FR)
PFL100 (FR) OR / 90 / 600 / R600	100233 (FR)
PFL100 (FR) OR / 90 / 750 / R600	100234 (FR)
PFL100 (FR) OR / 90 / 900 / R600	100235 (FR)



PFL100 FIBERGLASS CABLE LADDER

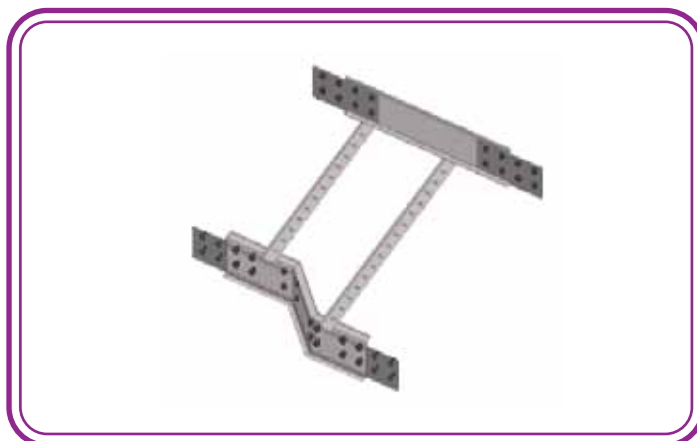
OUTSIDE RISER (RADIUS 800)

DESCRIPTION	PART NUMBER
PFL100 (FR) OR / 90 / 150 / R800	100240 (FR)
PFL100 (FR) OR / 90 / 300 / R800	100241 (FR)
PFL100 (FR) OR / 90 / 450 / R800	100242 (FR)
PFL100 (FR) OR / 90 / 600 / R800	100243 (FR)
PFL100 (FR) OR / 90 / 750 / R800	100244 (FR)
PFL100 (FR) OR / 90 / 900 / R800	100245 (FR)



REDUCER LEFT

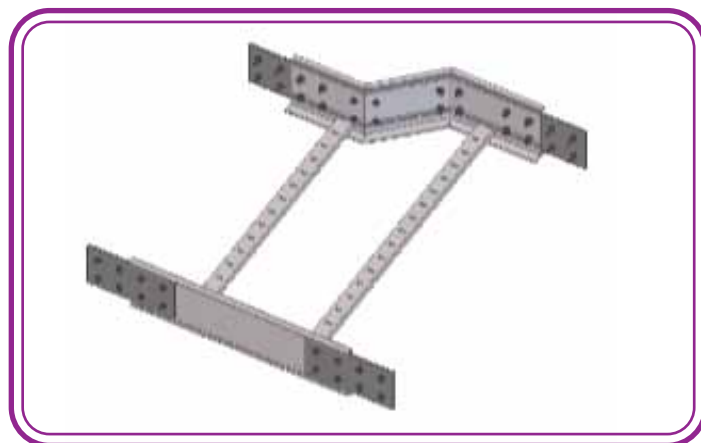
DESCRIPTION	PART NUMBER
PFL100 (FR) RL / 300 / 150	100250 (FR)
PFL100 (FR) RL / 450 / 150	100251 (FR)
PFL100 (FR) RL / 600 / 150	100252 (FR)
PFL100 (FR) RL / 450 / 300	100253 (FR)
PFL100 (FR) RL / 600 / 300	100254 (FR)
PFL100 (FR) RL / 750 / 300	100255 (FR)
PFL100 (FR) RL / 900 / 300	100256 (FR)
PFL100 (FR) RL / 600 / 450	100257 (FR)
PFL100 (FR) RL / 750 / 450	100258 (FR)
PFL100 (FR) RL / 900 / 450	100259 (FR)
PFL100 (FR) RL / 750 / 600	100260 (FR)
PFL100 (FR) RL / 900 / 600	100261 (FR)
PFL100 (FR) RL / 900 / 750	100262 (FR)



PFL100 FIBERGLASS CABLE LADDER

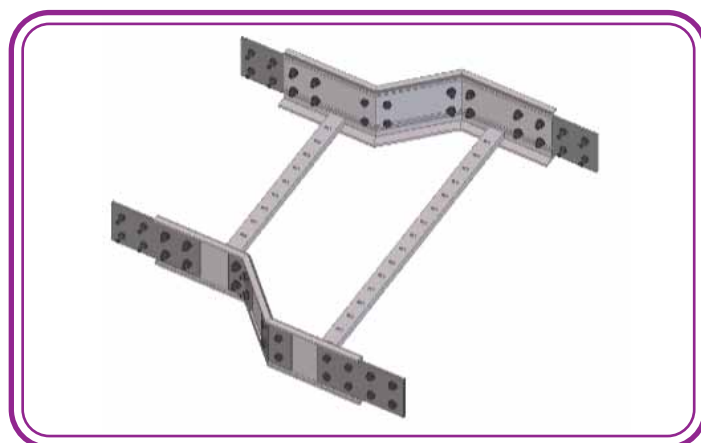
REDUCER RIGHT

DESCRIPTION	PART NUMBER
PFL100 (FR) RR / 300 / 150	100263(FR)
PFL100 (FR) RR / 450 / 150	100264(FR)
PFL100 (FR) RR / 600 / 150	100265(FR)
PFL100 (FR) RR / 450 / 300	100266(FR)
PFL100 (FR) RR / 600 / 300	100267(FR)
PFL100 (FR) RR / 750 / 300	100268(FR)
PFL100 (FR) RR / 900 / 300	100269(FR)
PFL100 (FR) RR / 600 / 450	100270(FR)
PFL100 (FR) RR / 750 / 450	100271(FR)
PFL100 (FR) RR / 900 / 450	100272(FR)
PFL100 (FR) RR / 750 / 600	100273(FR)
PFL100 (FR) RR / 900 / 600	100274(FR)
PFL100 (FR) RR / 900 / 750	100275(FR)



REDUCER STRAIGHT

DESCRIPTION	PART NUMBER
PFL100 (FR) RS / 300 / 150	100276 (FR)
PFL100 (FR) RS / 450 / 150	100277 (FR)
PFL100 (FR) RS / 600 / 150	100278 (FR)
PFL100 (FR) RS / 450 / 300	100279 (FR)
PFL100 (FR) RS / 600 / 300	100280 (FR)
PFL100 (FR) RS / 750 / 300	100281 (FR)
PFL100 (FR) RS / 900 / 300	100282 (FR)
PFL100 (FR) RS / 600 / 450	100283 (FR)
PFL100 (FR) RS / 750 / 450	100284 (FR)
PFL100 (FR) RS / 900 / 450	100285 (FR)
PFL100 (FR) RS / 750 / 600	100286 (FR)
PFL100 (FR) RS / 900 / 600	100287 (FR)
PFL100 (FR) RS / 900 / 750	100288 (FR)



PFL100 FIBERGLASS CABLE LADDER ACCESSORIES

DIVIDER

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL100(FR) DI	3 x M6	100299(FR)



SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 100 SC (SS)	4 x M8	10010(SS)



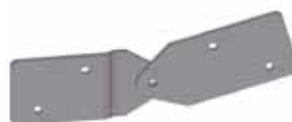
EXPANSION SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL100 ES (SS)	4 x M8	10011(SS)



SPLICE ANGLE VERTICAL

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL100 SV (SS)	4 x M8	10012(SS)



FIXING CLAMP (FOR HORIZONTAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL100 FXH (SS)	1 x M8	10013(SS)



FIXING CLAMP (FOR HORIZONTAL & VERTICAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL100 FXHV (SS)	2 x M8	10014(SS)



PFL 70 FIBERGLASS CABLE LADDER

STRAIGHT LENGTH - 3 M

Cable Ladder of 70 mm Height achieving NEMA 12 C according to NEMA FG-1 Standard

- Change FR to AS or VL for resin change

DESCRIPTION	PART NUMBER
PFL70 (FR) ST / 150 / 3000 mm	703110 (FR)
PFL70 (FR) ST / 300 / 3000 mm	703111 (FR)
PFL70 (FR) ST / 450 / 3000 mm	703112 (FR)
PFL70 (FR) ST / 600 / 3000 mm	703113 (FR)
PFL70 (FR) ST / 750 / 3000 mm	703114 (FR)
PFL70 (FR) ST / 900 / 3000 mm	703115 (FR)



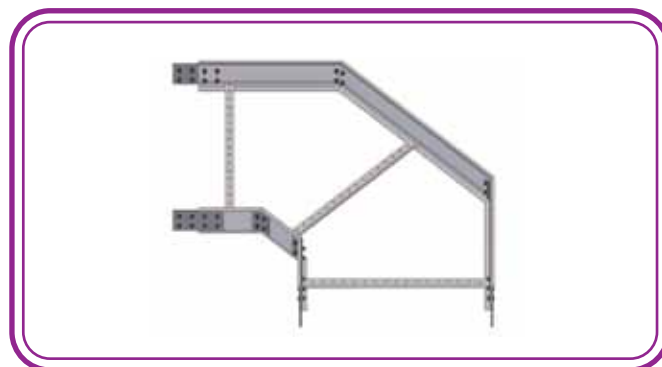
90° ELBOW HORIZONTAL (RADIUS 300 MM)

DESCRIPTION	PART NUMBER
PFL70 (FR) EL / 90 / 150 / R300	70120 (FR)
PFL70 (FR) EL / 90 / 300 / R300	70121 (FR)
PFL70 (FR) EL / 90 / 450 / R300	70122 (FR)
PFL70 (FR) EL / 90 / 600 / R300	70123 (FR)
PFL70 (FR) EL / 90 / 750 / R300	70124 (FR)
PFL70 (FR) EL / 90 / 900 / R300	70125 (FR)



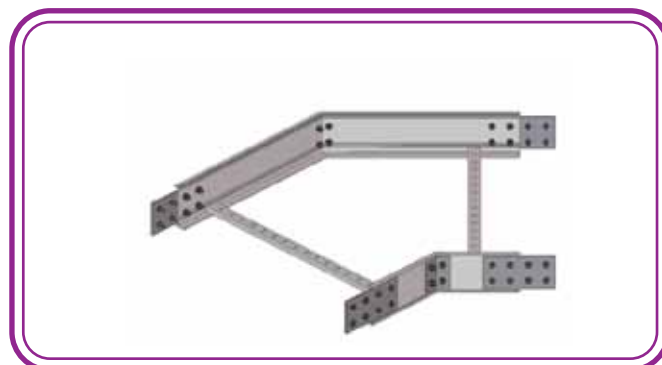
90° ELBOW HORIZONTAL (RADIUS 600 MM)

DESCRIPTION	PART NUMBER
PFL70 (FR) EL / 90 / 150 / R600	70320 (FR)
PFL70 (FR) EL / 90 / 300 / R600	70321 (FR)
PFL70 (FR) EL / 90 / 450 / R600	70322 (FR)
PFL70 (FR) EL / 90 / 600 / R600	70323 (FR)
PFL70 (FR) EL / 90 / 750 / R600	70324 (FR)
PFL70 (FR) EL / 90 / 900 / R600	70325 (FR)



45° ELBOW HORIZONTAL (RADIUS 300 MM)

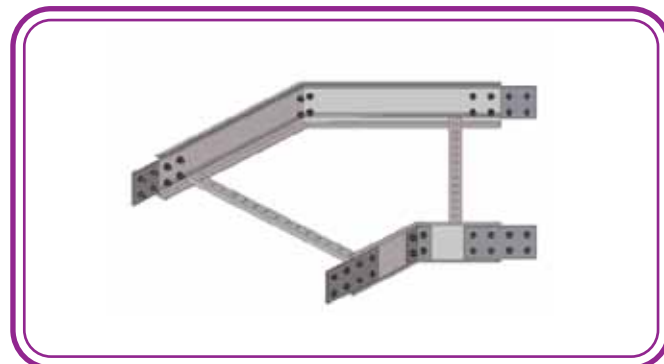
DESCRIPTION	PART NUMBER
PFL70 (FR) EL / 45 / 150 / R300	70130 (FR)
PFL70 (FR) EL / 45 / 300 / R300	70131 (FR)
PFL70 (FR) EL / 45 / 450 / R300	70132 (FR)
PFL70 (FR) EL / 45 / 600 / R300	70133 (FR)
PFL70 (FR) EL / 45 / 750 / R300	70134 (FR)
PFL70 (FR) EL / 45 / 900 / R300	70135 (FR)



PFL 70 FIBERGLASS CABLE LADDER

45° ELBOW HORIZONTAL (RADIUS 600 MM)

DESCRIPTION	PART NUMBER
PFL70 (FR) EL / 45 / 150 / R600	70330 (FR)
PFL70 (FR) EL / 45 / 300 / R600	70331 (FR)
PFL70 (FR) EL / 45 / 450 / R600	70332 (FR)
PFL70 (FR) EL / 45 / 600 / R600	70333 (FR)
PFL70 (FR) EL / 45 / 750 / R600	70334 (FR)
PFL70 (FR) EL / 45 / 900 / R600	70335 (FR)



TEE HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL70 (FR) TE / 150 / 150 / R300	70140 (FR)
PFL70 (FR) TE / 300 / 300 / R300	70141 (FR)
PFL70 (FR) TE / 450 / 450 / R300	70142 (FR)
PFL70 (FR) TE / 600 / 600 / R300	70143 (FR)
PFL70 (FR) TE / 750 / 750 / R300	70144 (FR)
PFL70 (FR) TE / 900 / 900 / R300	70145 (FR)

- For uneven tee piece, please contact customer care



TEE HORIZONTAL (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL70 (FR) TE / 150 / 150 / R600	70150(FR)
PFL70 (FR) TE / 300 / 300 / R600	70151(FR)
PFL70 (FR) TE / 450 / 450 / R600	70152(FR)
PFL70 (FR) TE / 600 / 600 / R600	70153(FR)
PFL70 (FR) TE / 750 / 750 / R600	70154(FR)
PFL70 (FR) TE / 900 / 900 / R600	70155(FR)

- For uneven tee piece, please contact customer care



CROSS HORIZONTAL (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL70 (FR) CR / 150 / 150 / R300	70160 (FR)
PFL70 (FR) CR / 300 / 300 / R300	70161 (FR)
PFL70 (FR) CR / 450 / 450 / R300	70162 (FR)
PFL70 (FR) CR / 600 / 600 / R300	70163 (FR)
PFL70 (FR) CR / 750 / 750 / R300	70164 (FR)
PFL70 (FR) CR / 900 / 900 / R300	70165 (FR)

- For uneven cross piece, please contact customer care



PFL 70 FIBERGLASS CABLE LADDER

CROSS HORIZONTAL (RADIUS 600)

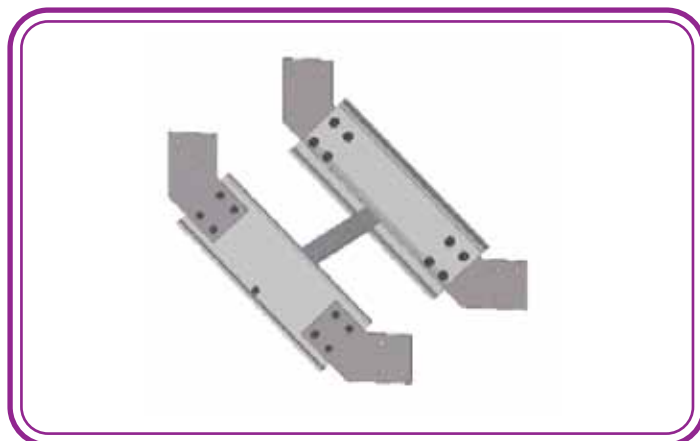
DESCRIPTION	PART NUMBER
PFL70 (FR) CR / 150 / 150 / R600	70170 (FR)
PFL70 (FR) CR / 300 / 300 / R600	70171 (FR)
PFL70 (FR) CR / 450 / 450 / R600	70172 (FR)
PFL70 (FR) CR / 600 / 600 / R600	70173 (FR)
PFL70 (FR) CR / 750 / 750 / R600	70174 (FR)
PFL70 (FR) CR / 900 / 900 / R600	70175 (FR)

- For uneven cross piece, please contact customer care



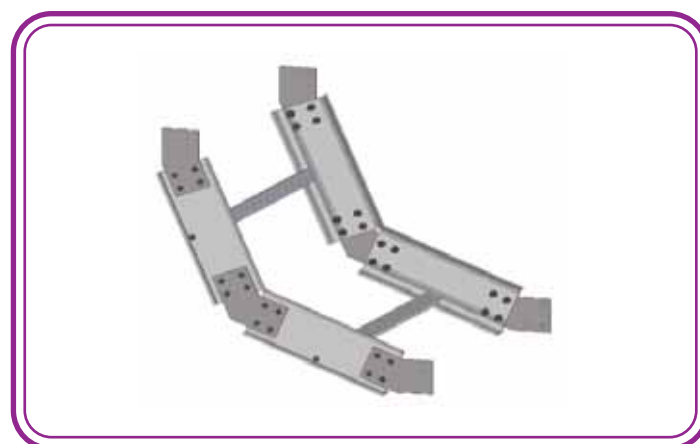
INSIDE RISER (RADIUS 400)

DESCRIPTION	PART NUMBER
PFL70 (FR) IR / 90 / 150 / R400	70180 (FR)
PFL70 (FR) IR / 90 / 300 / R400	70181 (FR)
PFL70 (FR) IR / 90 / 450 / R400	70182 (FR)
PFL70 (FR) IR / 90 / 600 / R400	70183 (FR)
PFL70 (FR) IR / 90 / 750 / R400	70184 (FR)
PFL70 (FR) IR / 90 / 900 / R400	70185 (FR)



INSIDE RISER (RADIUS 600)

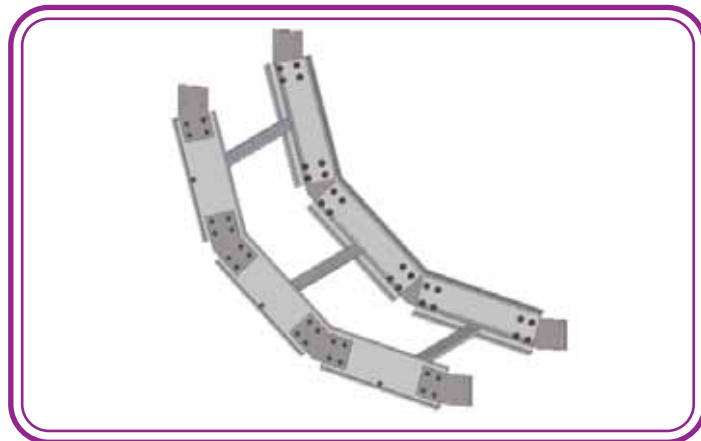
DESCRIPTION	PART NUMBER
PFL70 (FR) IR / 90 / 150 / R600	70190 (FR)
PFL70 (FR) IR / 90 / 300 / R600	70191 (FR)
PFL70 (FR) IR / 90 / 450 / R600	70192 (FR)
PFL70 (FR) IR / 90 / 600 / R600	70193 (FR)
PFL70 (FR) IR / 90 / 750 / R600	70194 (FR)
PFL70 (FR) IR / 90 / 900 / R600	70195 (FR)



PFL 70 FIBERGLASS CABLE LADDER

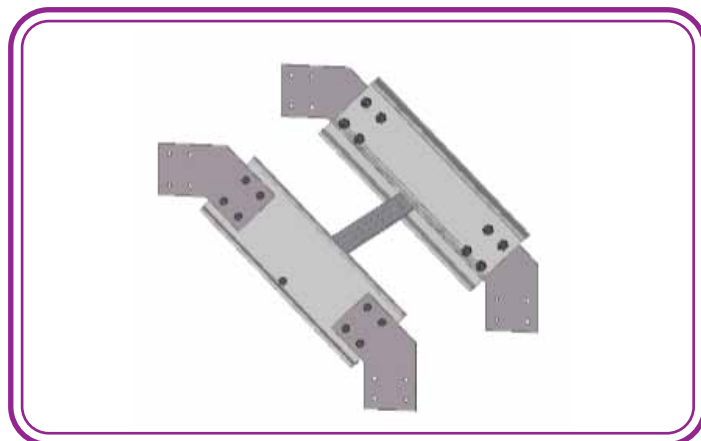
INSIDE RISER (RADIUS 800)

DESCRIPTION	PART NUMBER
PFL70 (FR) IR / 90 / 150 / R800	70210 (FR)
PFL70 (FR) IR / 90 / 300 / R800	70211 (FR)
PFL70 (FR) IR / 90 / 450 / R800	70212 (FR)
PFL70 (FR) IR / 90 / 600 / R800	70213 (FR)
PFL70 (FR) IR / 90 / 750 / R800	70214 (FR)
PFL70 (FR) IR / 90 / 900 / R800	70215 (FR)



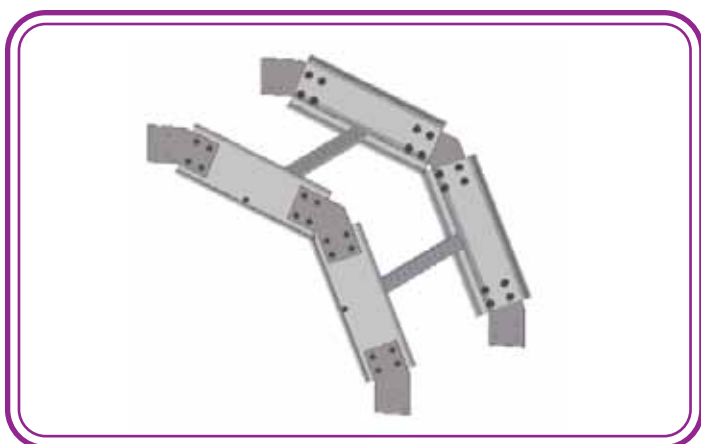
OUTSIDE RISER (RADIUS 400)

DESCRIPTION	PART NUMBER
PFL70 (FR) OR / 90 / 150 / R400	70220 (FR)
PFL70 (FR) OR / 90 / 300 / R400	70221 (FR)
PFL70 (FR) OR / 90 / 450 / R400	70222 (FR)
PFL70 (FR) OR / 90 / 600 / R400	70223 (FR)
PFL70 (FR) OR / 90 / 750 / R400	70224 (FR)
PFL70 (FR) OR / 90 / 900 / R400	70225 (FR)



OUTSIDE RISER (RADIUS 600)

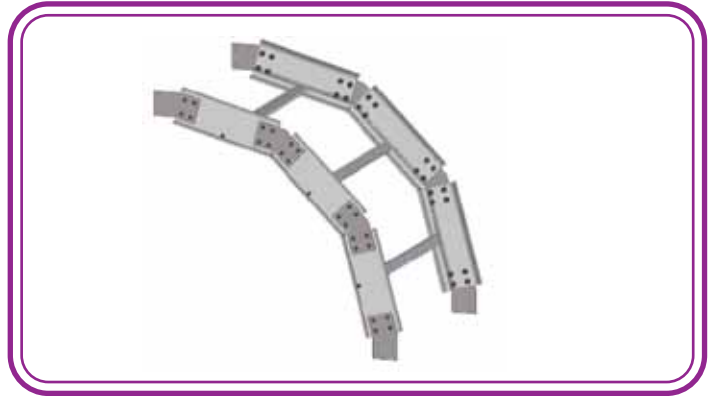
DESCRIPTION	PART NUMBER
PFL70 (FR) OR / 90 / 150 / R600	70230 (FR)
PFL70 (FR) OR / 90 / 300 / R600	70231 (FR)
PFL70 (FR) OR / 90 / 450 / R600	70232 (FR)
PFL70 (FR) OR / 90 / 600 / R600	70233 (FR)
PFL70 (FR) OR / 90 / 750 / R600	70234 (FR)
PFL70 (FR) OR / 90 / 900 / R600	70235 (FR)



PFL 70 FIBERGLASS CABLE LADDER

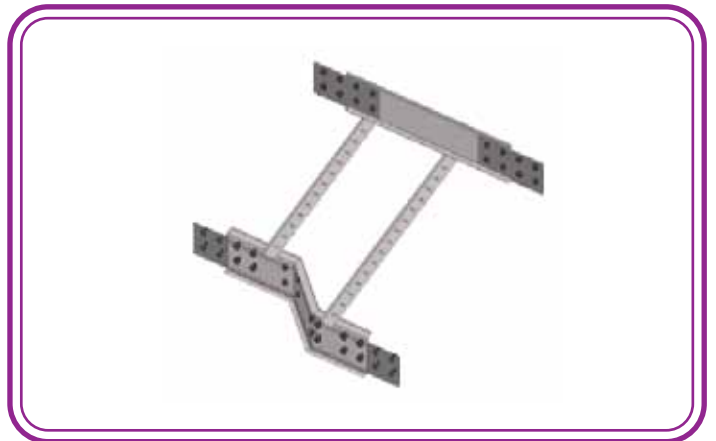
OUTSIDE RISER (RADIUS 800)

DESCRIPTION	PART NUMBER
PFL70 (FR) OR / 90 / 150 / R800	70240 (FR)
PFL70 (FR) OR / 90 / 300 / R800	70241 (FR)
PFL70 (FR) OR / 90 / 450 / R800	70242 (FR)
PFL70 (FR) OR / 90 / 600 / R800	70243 (FR)
PFL70 (FR) OR / 90 / 750 / R800	70244 (FR)
PFL70 (FR) OR / 90 / 900 / R800	70245 (FR)



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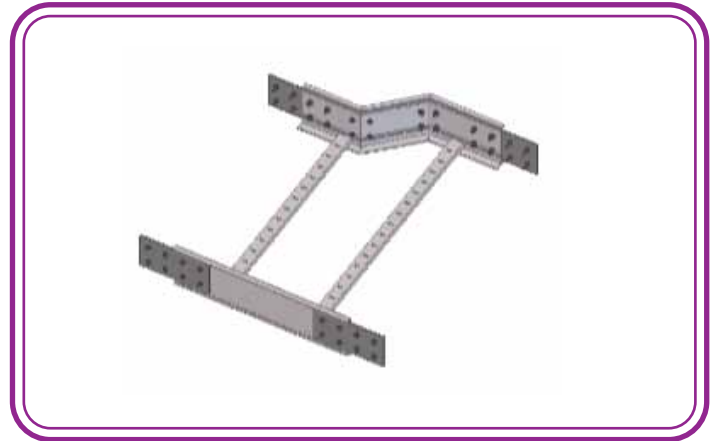
DESCRIPTION	PART NUMBER
PFL70 (FR) RL / 300 / 150	70250 (FR)
PFL70 (FR) RL / 450 / 150	70251 (FR)
PFL70 (FR) RL / 600 / 150	70252 (FR)
PFL70 (FR) RL / 450 / 300	70253 (FR)
PFL70 (FR) RL / 600 / 300	70254 (FR)
PFL70 (FR) RL / 750 / 300	70255 (FR)
PFL70 (FR) RL / 900 / 300	70256 (FR)
PFL70 (FR) RL / 600 / 450	70257 (FR)
PFL70 (FR) RL / 750 / 450	70258 (FR)
PFL70 (FR) RL / 900 / 450	70259 (FR)
PFL70 (FR) RL / 750 / 600	70260 (FR)
PFL70 (FR) RL / 900 / 600	70261 (FR)
PFL70 (FR) RL / 900 / 750	70262 (FR)



PFL 70 FIBERGLASS CABLE LADDER

REDUCER RIGHT

DESCRIPTION	PART NUMBER
PFL70 (FR) RR / 300 / 150	70263 (FR)
PFL70 (FR) RR / 450 / 150	70264 (FR)
PFL70 (FR) RR / 600 / 150	70265 (FR)
PFL70 (FR) RR / 450 / 300	70266 (FR)
PFL70 (FR) RR / 600 / 300	70267 (FR)
PFL70 (FR) RR / 750 / 300	70268 (FR)
PFL70 (FR) RR / 900 / 300	70269 (FR)
PFL70 (FR) RR / 600 / 450	70270 (FR)
PFL70 (FR) RR / 750 / 450	70271 (FR)
PFL70 (FR) RR / 900 / 450	70272 (FR)
PFL70 (FR) RR / 750 / 600	70273 (FR)
PFL70 (FR) RR / 900 / 600	70274 (FR)
PFL70 (FR) RR / 900 / 750	70275 (FR)



REDUCER STRAIGHT

DESCRIPTION	PART NUMBER
PFL70 (FR) RS / 300 / 150	70276 (FR)
PFL70 (FR) RS / 450 / 150	70277 (FR)
PFL70 (FR) RS / 600 / 150	70278 (FR)
PFL70 (FR) RS / 450 / 300	70279 (FR)
PFL70 (FR) RS / 600 / 300	70280 (FR)
PFL70 (FR) RS / 750 / 300	70281 (FR)
PFL70 (FR) RS / 900 / 300	70282 (FR)
PFL70 (FR) RS / 600 / 450	70283 (FR)
PFL70 (FR) RS / 750 / 450	70284 (FR)
PFL70 (FR) RS / 900 / 450	70285 (FR)
PFL70 (FR) RS / 750 / 600	70286 (FR)
PFL70 (FR) RS / 900 / 600	70287 (FR)
PFL70 (FR) RS / 900 / 750	70288 (FR)



PFL 70 FIBERGLASS CABLE LADDER ACCESSORIES

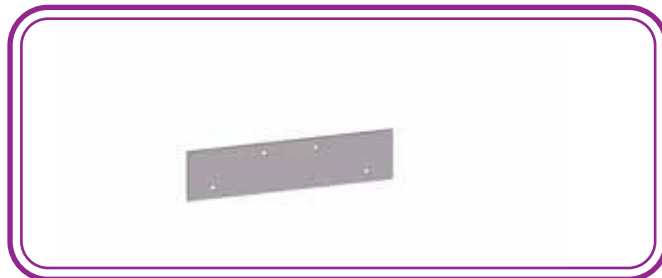
DIVIDER

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 70 (FR) DI	3 x M6	70299(FR)



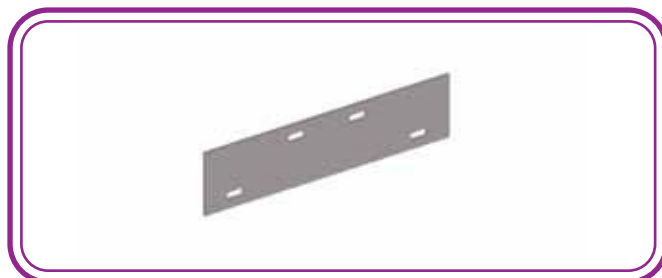
SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 70 SC (SS)	4 x M6	7010 (SS)



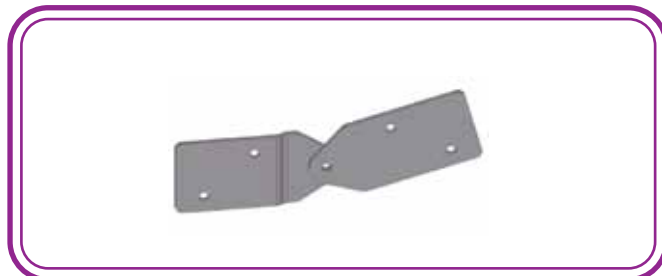
EXPANSION SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 70 ES (SS)	4 x M6	7011(SS)



SPLICE ANGLE VERTICAL

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 70 SV (SS)	4 x M6	7012 (SS)



FIXING CLAMP (FOR HORIZONTAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 70 FXH (SS)	1 x M6	7013 (SS)



FIXING CLAMP (FOR HORIZONTAL & VERTICAL INSTALLATION)

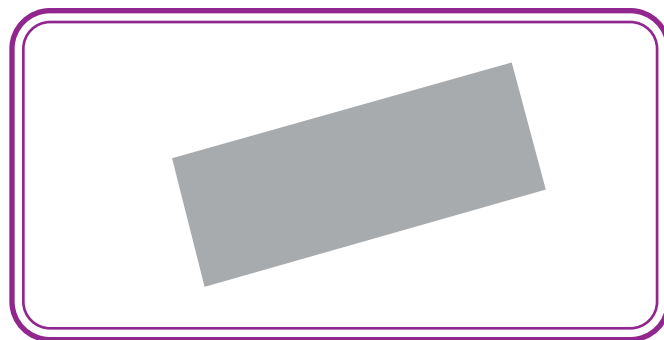
DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL 70 FXHV (SS)	2 x M6	7014 (SS)



FIBERGLASS CABLE LADDER COVERS

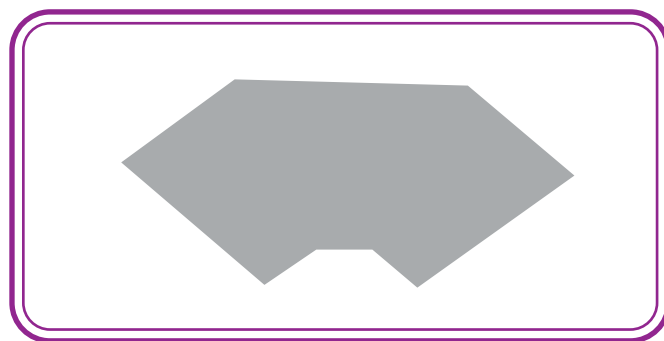
STRAIGHT COVER (3 Meter)

DESCRIPTION	PART NUMBER
PFL (FR) CO / ST / 150 / 3000 mm	303110 (FR)
PFL (FR) CO / ST / 300 / 3000 mm	303111 (FR)
PFL (FR) CO / ST / 450 / 3000 mm	303112 (FR)
PFL (FR) CO / ST / 600 / 3000 mm	303113 (FR)
PFL (FR) CO / ST / 750 / 3000 mm	303114 (FR)
PFL (FR) CO / ST / 900 / 3000 mm	303115 (FR)



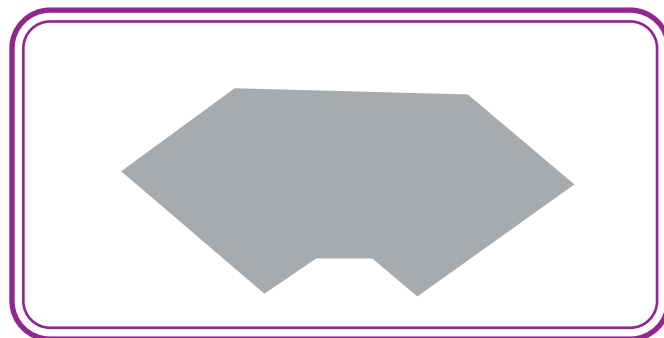
90° HORIZONTAL ELBOW COVER (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL (FR) CO / EL / 90 / 150	30120 (FR)
PFL (FR) CO / EL / 90 / 300	30121 (FR)
PFL (FR) CO / EL / 90 / 450	30122 (FR)
PFL (FR) CO / EL / 90 / 600	30123 (FR)
PFL (FR) CO / EL / 90 / 750	30124 (FR)
PFL (FR) CO / EL / 90 / 900	30125 (FR)



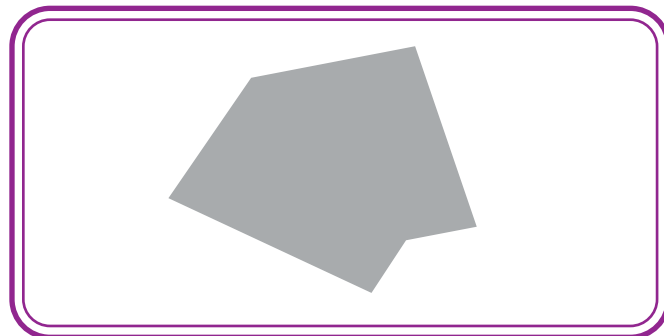
90° HORIZONTAL ELBOW COVER (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL (FR) CO / EL / 90 / 150	30190 (FR)
PFL (FR) CO / EL / 90 / 300	30191 (FR)
PFL (FR) CO / EL / 90 / 450	30192 (FR)
PFL (FR) CO / EL / 90 / 600	30193 (FR)
PFL (FR) CO / EL / 90 / 750	30194 (FR)
PFL (FR) CO / EL / 90 / 900	30195 (FR)



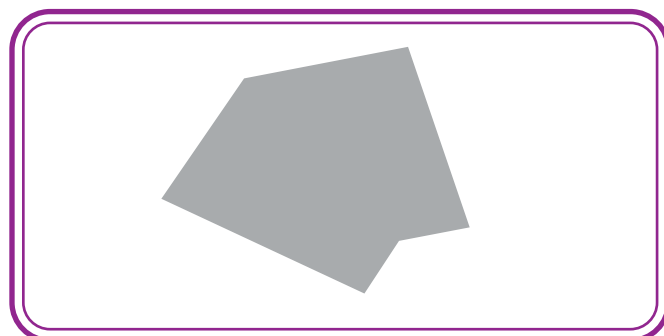
45° HORIZONTAL ELBOW COVER (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL (FR) CO / EL / 45 / 150	30130 (FR)
PFL (FR) CO / EL / 45 / 300	30131 (FR)
PFL (FR) CO / EL / 45 / 450	30132 (FR)
PFL (FR) CO / EL / 45 / 600	30133 (FR)
PFL (FR) CO / EL / 45 / 750	30134 (FR)
PFL (FR) CO / EL / 45 / 900	30135 (FR)



45° HORIZONTAL ELBOW COVER (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL (FR) CO / EL / 45 / 150	30210 (FR)
PFL (FR) CO / EL / 45 / 300	30211 (FR)
PFL (FR) CO / EL / 45 / 450	30212 (FR)
PFL (FR) CO / EL / 45 / 600	30213 (FR)
PFL (FR) CO / EL / 45 / 750	30214 (FR)
PFL (FR) CO / EL / 45 / 900	30215 (FR)



FIBERGLASS CABLE LADDER COVERS

HORIZONTAL TEE COVER (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL(FR) CO / TE / 150 / 150	30140(FR)
PFL(FR) CO / TE / 300 / 300	30141(FR)
PFL(FR) CO / TE / 450 / 450	30142(FR)
PFL(FR) CO / TE / 600 / 600	30143(FR)
PFL(FR) CO / TE / 750 / 750	30144(FR)
PFL(FR) CO / TE / 900 / 900	30145(FR)



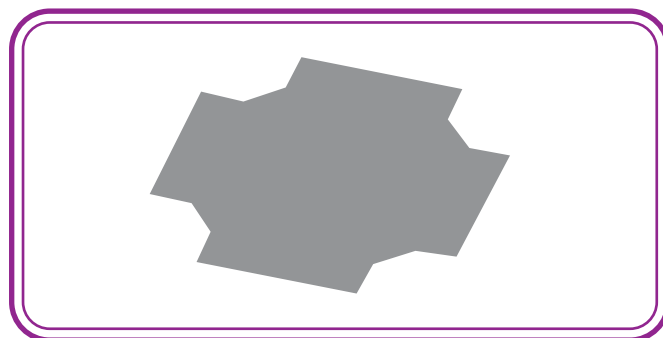
HORIZONTAL TEE COVER (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL(FR) CO / CR / 150 / 150	30150(FR)
PFL(FR) CO / CR / 300 / 300	30151(FR)
PFL(FR) CO / CR / 450 / 450	30152(FR)
PFL(FR) CO / CR / 600 / 600	30153(FR)
PFL(FR) CO / CR / 750 / 750	30154(FR)
PFL(FR) CO / CR / 900 / 900	30155(FR)



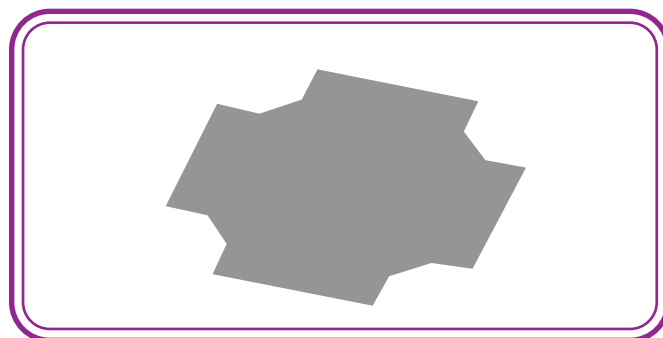
HORIZONTAL CROSS COVER (RADIUS 300)

DESCRIPTION	PART NUMBER
PFL(FR) CO / CR / 150 / 150	30160(FR)
PFL(FR) CO / CR / 300 / 300	30161(FR)
PFL(FR) CO / CR / 450 / 450	30162(FR)
PFL(FR) CO / CR / 600 / 600	30163(FR)
PFL(FR) CO / CR / 750 / 750	30164(FR)
PFL(FR) CO / CR / 900 / 900	30165(FR)



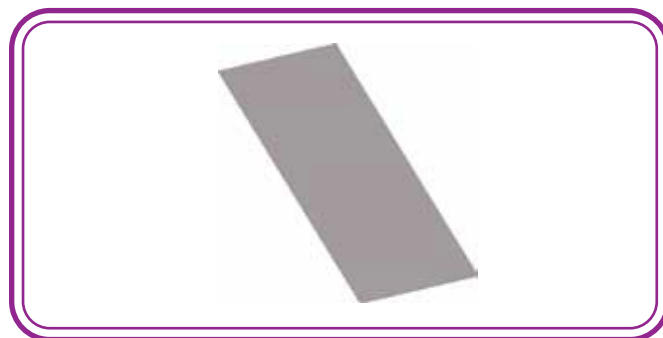
HORIZONTAL CROSS COVER (RADIUS 600)

DESCRIPTION	PART NUMBER
PFL(FR) CO / CR / 150 / 150	30170(FR)
PFL(FR) CO / CR / 300 / 300	30171(FR)
PFL(FR) CO / CR / 450 / 450	30172(FR)
PFL(FR) CO / CR / 600 / 600	30173(FR)
PFL(FR) CO / CR / 750 / 750	30174(FR)
PFL(FR) CO / CR / 900 / 900	30175(FR)



RISER COVER (400 mm (1pc), 600 mm (2 pc), 800 mm (3 pc))

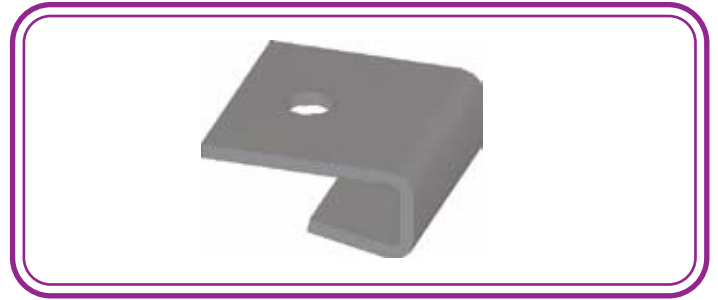
DESCRIPTION	PART NUMBER
PFL(FR) CO / IR / 150	30180(FR)
PFL(FR) CO / IR / 300	30181(FR)
PFL(FR) CO / IR / 450	30182(FR)
PFL(FR) CO / IR / 600	30183(FR)
PFL(FR) CO / IR / 750	30184(FR)
PFL(FR) CO / IR / 900	30185(FR)



FIBERGLASS CABLE LADDER ACCESSORIES

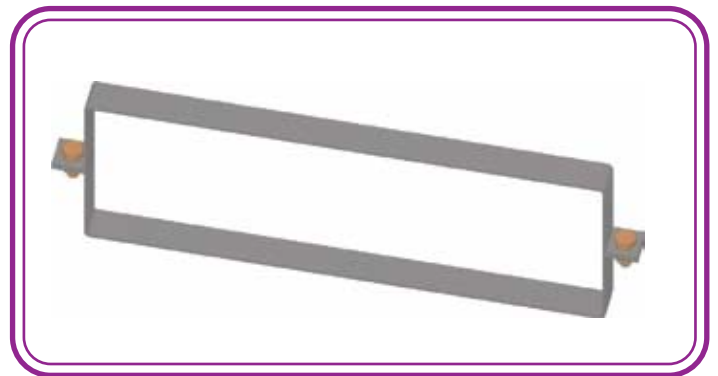
COVER CLAMP

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL / CC	1 x M6	8040(SS)



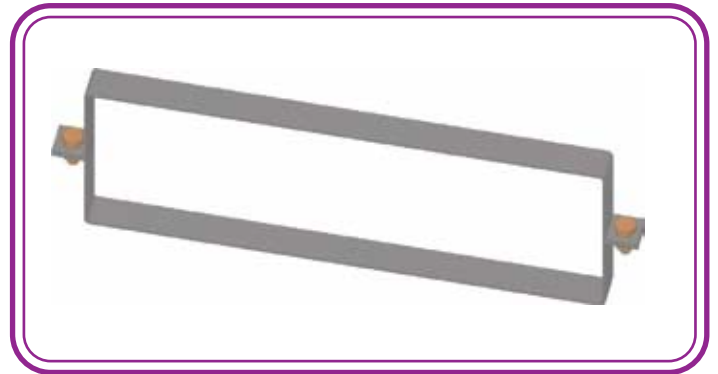
HEAVY DUTY COVER CLAMP (150 mm)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL / HD / 150 / 150		150510(SS)
PFL / HD / 150 / 300		150511(SS)
PFL / HD / 150 / 450	2 X M8	150512(SS)
PFL / HD / 150 / 600		150513(SS)
PFL / HD / 150 / 750		150514(SS)
PFL / HD / 150 / 900		150515(SS)



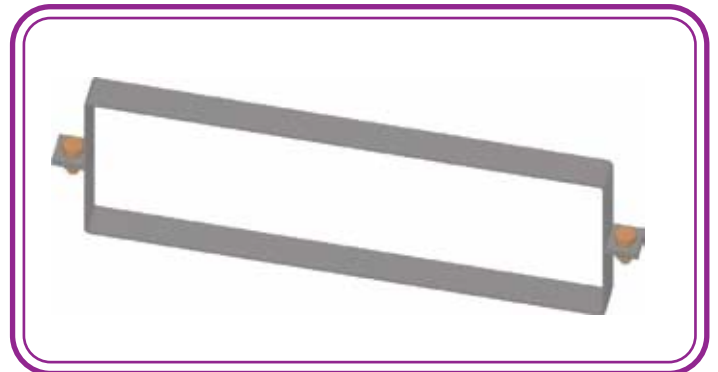
HEAVY DUTY COVER CLAMP (100 mm)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL / HD / 100 / 150		100510(SS)
PFL / HD / 100 / 300		100511(SS)
PFL / HD / 100 / 450	2 X M8	100512(SS)
PFL / HD / 100 / 600		100513(SS)
PFL / HD / 100 / 750		100514(SS)
PFL / HD / 100 / 900		100515(SS)



HEAVY DUTY COVER CLAMP (70 mm)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFL / HD / 70 / 150		70510(SS)
PFL / HD / 70 / 300		70511(SS)
PFL / HD / 70 / 450	2 X M6	70512(SS)
PFL / HD / 70 / 600		70513(SS)
PFL / HD / 70 / 750		70514(SS)
PFL / HD / 70 / 900		70515(SS)



PFT 50 FIBER GLASS CABLE TRAY

STRAIGHT LENGTH - 3 M

- Change FR to AS or VL for resin change.

DESCRIPTION	PART NUMBER
PFT50 (FR) ST / 50 / 3000 mm	50110 (FR)
PFT50 (FR) ST / 100 / 3000 mm	50111 (FR)
PFT50 (FR) ST / 150 / 3000 mm	50112 (FR)
PFT50 (FR) ST / 200 / 3000 mm	50113 (FR)
PFT50 (FR) ST / 300 / 3000 mm	50114 (FR)



90° ELBOW HORIZONTAL

DESCRIPTION	PART NUMBER
PFT50(FR) EL / 90 / 50	50120(FR)
PFT50(FR) EL / 90 / 100	50121(FR)
PFT50(FR) EL / 90 / 150	50122(FR)
PFT50(FR) EL / 90 / 200	50123(FR)
PFT50(FR) EL / 90 / 300	50124(FR)



45° ELBOW HORIZONTAL

DESCRIPTION	PART NUMBER
PFT50(FR) EL / 45 / 50	50130(FR)
PFT50(FR) EL / 45 / 100	50131(FR)
PFT50(FR) EL / 45 / 150	50132(FR)
PFT50(FR) EL / 45 / 200	50133(FR)
PFT50(FR) EL / 45 / 300	50134(FR)



PFT 50 FIBER GLASS CABLE TRAY

INTERNAL RISER

DESCRIPTION	PART NUMBER
PFT50(FR) IR / 50	50140(FR)
PFT50(FR) IR / 100	50141(FR)
PFT50(FR) IR / 150	50142(FR)
PFT50(FR) IR / 200	50143(FR)
PFT50(FR) IR / 300	50144(FR)



EXTERNAL RISER

DESCRIPTION	PART NUMBER
PFT50(FR) ER / 50	50150(FR)
PFT50(FR) ER / 100	50151(FR)
PFT50(FR) ER / 150	50152(FR)
PFT50(FR) ER / 200	50153(FR)
PFT50(FR) ER / 300	50154(FR)



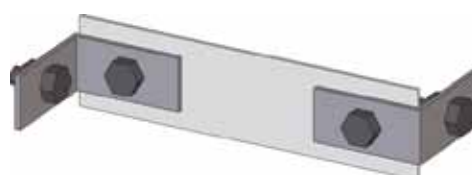
TEE HORIZONTAL

DESCRIPTION	PART NUMBER
PFT50(FR) TE / 50	50160(FR)
PFT50(FR) TE / 100	50161(FR)
PFT50(FR) TE / 150	50162(FR)
PFT50(FR) TE / 200	50163(FR)
PFT50(FR) TE / 300	50164(FR)



REDUCER PART

DESCRIPTION	PART NUMBER
PFT50(FR) RP / 50	50170(FR)
PFT50(FR) RP / 100	50171(FR)
PFT50(FR) RP / 150	50172(FR)
PFT50(FR) RP / 200	50173(FR)
PFT50(FR) RP / 300	50174(FR)



PFT 50 FIBER GLASS CABLE TRAY ACCESSORIES

SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 50 SC (SS)	4 X M6	5010(SS)



EXPANSION SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 50 ES (SS)	4 X M6	5011(SS)



SPLICE ANGLE VERTICAL

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 50 SV (SS)	4 X M6	5012(SS)



FIXING CLAMP (FOR HORIZONTAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 50 FXH (SS)	1X M6	5013



FIXING CLAMP (FOR HORIZONTAL & VERTICAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 50 FXHV (SS)	2 x M6	5014(SS)



COVER CLIPS

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 50 CC (SS)	-	50610(SS)
PFT 80 CC (SS)	-	80610(SS)



PFT 80 FIBER GLASS CABLE TRAY

STRAIGHT LENGTH / 3 M

- Change FR to AS or VL for resin change

DESCRIPTION	PART NUMBER
PFT80(FR) ST / 50 / 3000 mm	80110(FR)
PFT80(FR) ST / 100 / 3000 mm	80111(FR)
PFT80(FR) ST / 150 / 3000 mm	80112(FR)
PFT80(FR) ST / 200 / 3000 mm	80113(FR)
PFT80(FR) ST / 300 / 3000 mm	80114(FR)



90° ELBOW HORIZONTAL

DESCRIPTION	PART NUMBER
PFT80(FR) EL / 90 / 50	80120(FR)
PFT80(FR) EL / 90 / 100	80121(FR)
PFT80(FR) EL / 90 / 150	80122(FR)
PFT80(FR) EL / 90 / 200	80123(FR)
PFT80(FR) EL / 90 / 300	80124(FR)



45° ELBOW HORIZONTAL

DESCRIPTION	PART NUMBER
PFT80(FR) EL / 45 / 50	80130(FR)
PFT80(FR) EL / 45 / 100	80131(FR)
PFT80(FR) EL / 45 / 150	80132(FR)
PFT80(FR) EL / 45 / 200	80133(FR)
PFT80(FR) EL / 45 / 300	80134(FR)



PFT 80 FIBER GLASS CABLE TRAY

INTERNAL RISER

DESCRIPTION	PART NUMBER
PFT 80(FR) IR / 50	80140(FR)
PFT 80(FR) IR / 100	80141(FR)
PFT 80(FR) IR / 150	80142(FR)
PFT 80(FR) IR / 200	80143(FR)
PFT 80(FR) IR / 300	80144(FR)



EXTERNAL RISER

DESCRIPTION	PART NUMBER
PFT 80(FR) ER / 50	80150(FR)
PFT 80(FR) ER / 100	80151(FR)
PFT 80(FR) ER / 150	80152(FR)
PFT 80(FR) ER / 200	80153(FR)
PFT 80(FR) ER / 300	80154(FR)



TEE HORIZONTAL

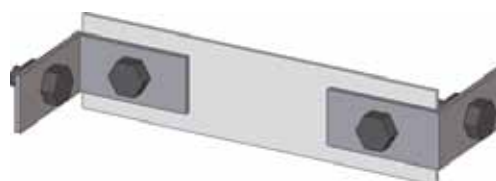
- For uneven tee piece, please contact customer care

DESCRIPTION	PART NUMBER
PFT 80(FR) TE / 50	80160(FR)
PFT 80(FR) TE / 100	80161(FR)
PFT 80(FR) TE / 150	80162(FR)
PFT 80(FR) TE / 200	80163(FR)
PFT 80(FR) TE / 300	80164(FR)



REDUCER PART

DESCRIPTION	PART NUMBER
PFT 80(FR) RP / 50	80170(FR)
PFT 80(FR) RP / 100	80171(FR)
PFT 80(FR) RP / 150	80172(FR)
PFT 80(FR) RP / 200	80173(FR)
PFT 80(FR) RP / 300	80174(FR)



PFT 80 FIBER GLASS CABLE TRAY ACCESSORIES

SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 80 SC (SS)	4 X M6	8010(SS)



EXPANSION SPLICE CONNECTOR

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 80 ES (SS)	4 X M6	8011(SS)



SPLICE ANGLE VERTICAL

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 80 SV (SS)	4 x M6	8012(SS)



FIXING CLAMP (FOR HORIZONTAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 80 FXH (SS)	1 X M6	8013(SS)



FIXING CLAMP (FOR HORIZONTAL & VERTICAL INSTALLATION)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT 80 FXHV (SS)	2 x M6	8014(SS)



HEAVY DUTY COVER CLAMP (50 mm)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT / HD / 50 / 50	2 x M6	50510(SS)
PFT / HD / 50 / 100		50511(SS)
PFT / HD / 50 / 150		50512(SS)
PFT / HD / 50 / 200		50513(SS)
PFT / HD / 50 / 300		50514(SS)



HEAVY DUTY COVER CLAMP (80 mm)

DESCRIPTION	HARDWARE(SS)	PART NUMBER
PFT / HD / 80 / 50	2 x M6	80510(SS)
PFT / HD / 80 / 100		80511(SS)
PFT / HD / 80 / 150		80512(SS)
PFT / HD / 80 / 200		80513(SS)
PFT / HD / 80 / 300		80514(SS)



FIBERGLASS CABLE TRAY COVERS

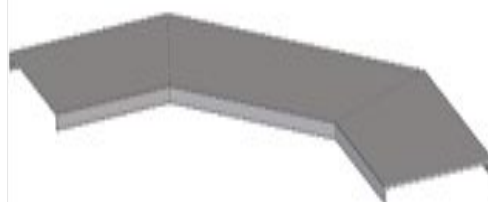
COVER STRAIGHT (3 Mtr)

DESCRIPTION	PART NUMBER
PFT (FR) CO / ST / 50 / 3000 mm	40110(FR)
PFT (FR) CO / ST / 100 / 3000 mm	40111(FR)
PFT (FR) CO / ST / 150 / 3000 mm	40112(FR)
PFT (FR) CO / ST / 200 / 3000 mm	40113(FR)
PFT (FR) CO / ST / 300 / 3000 mm	40114(FR)



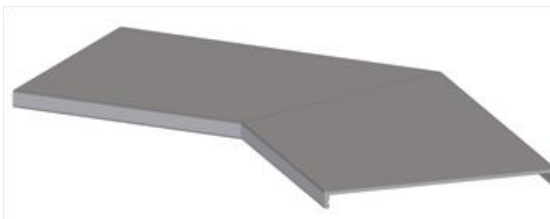
90° HORIZONTAL ELBOW COVER

DESCRIPTION	PART NUMBER
PFT (FR) CO / EL / 90 / 50	40120(FR)
PFT (FR) CO / EL / 90 / 100	40121(FR)
PFT (FR) CO / EL / 90 / 150	40122(FR)
PFT (FR) CO / EL / 90 / 200	40123(FR)
PFT (FR) CO / EL / 90 / 300	40124(FR)



45° HORIZONTAL ELBOW COVER

DESCRIPTION	PART NUMBER
PFT (FR) CO / EL / 45 / 50	40130(FR)
PFT (FR) CO / EL / 45 / 100	40131(FR)
PFT (FR) CO / EL / 45 / 150	40132(FR)
PFT (FR) CO / EL / 45 / 200	40133(FR)
PFT (FR) CO / EL / 45 / 300	40134(FR)



HORIZONTAL TEE COVER

DESCRIPTION	PART NUMBER
PFT (FR) CO / TE / 50	40150(FR)
PFT (FR) CO / TE / 100	40151(FR)
PFT (FR) CO / TE / 150	40152(FR)
PFT (FR) CO / TE / 200	40153(FR)
PFT (FR) CO / TE / 300	40154(FR)



RISER COVER

DESCRIPTION	PART NUMBER
PFT (FR) CO / IR / 45 / 50	40140(FR)
PFT (FR) CO / IR / 45 / 100	40141(FR)
PFT (FR) CO / IR / 45 / 150	40142(FR)
PFT (FR) CO / IR / 45 / 200	40143(FR)
PFT (FR) CO / IR / 45 / 300	40144(FR)

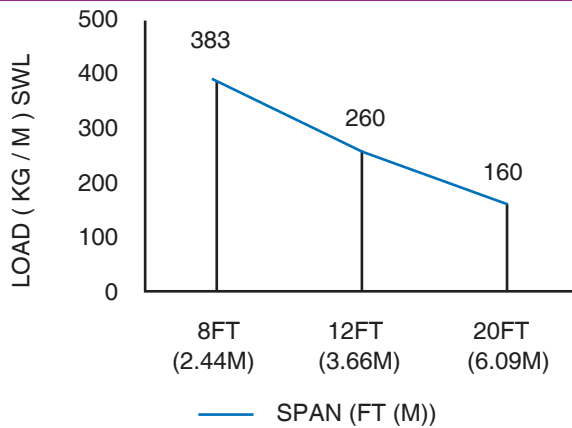


LOAD GRAPHS

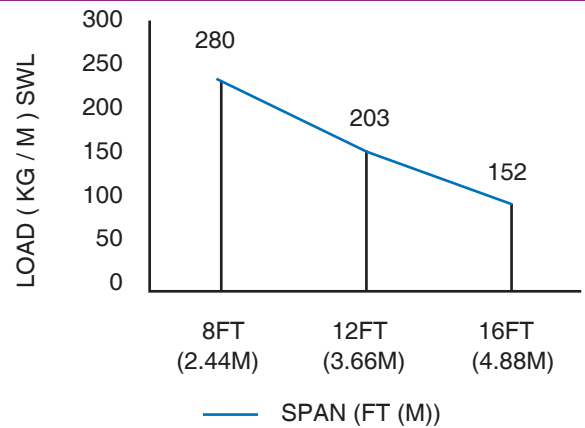
CABLE LADDER LOAD GRAPH

Our Ladder system has been tested with NEMA FG-1 Loading Specification & Tray to IEC 61537 Standards

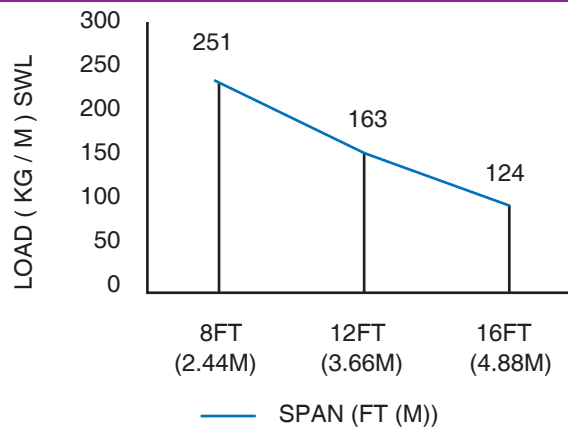
PFL150 HEIGHT FRP CABLE LADDER (NEMA 20 C)



PFL100 HEIGHT FRP CABLE LADDER (NEMA 16 C)

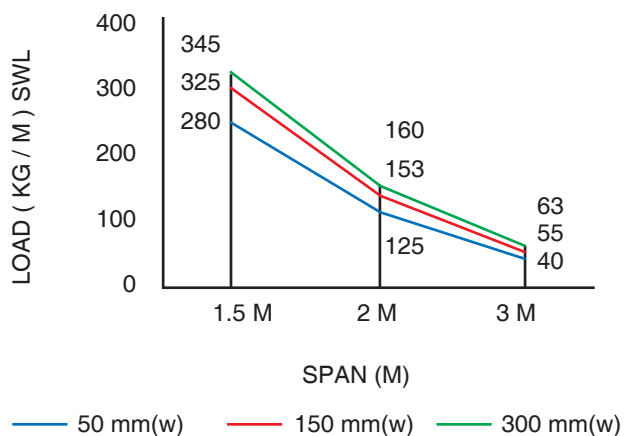


PFL 70 HEIGHT FRP CABLE LADDER (NEMA 16 B, 12 C)

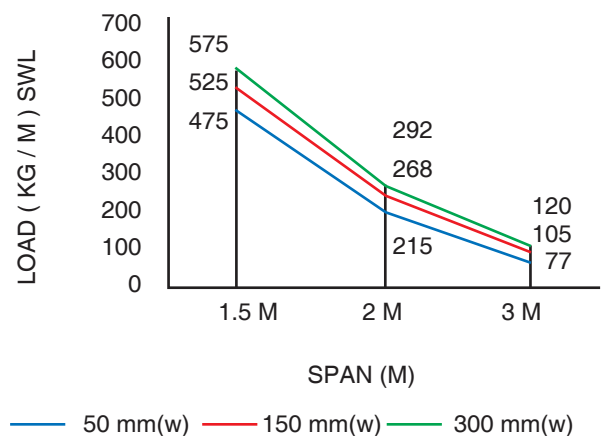


CABLE TRAY LOAD GRAPH

PFT 50 HEIGHT FRP CABLE TRAY



PFT 80 HEIGHT FRP CABLE TRAY



TECHNICAL DATA

PROPERTIES	UNITS	FR-P	FR-VL
LONGITUDINAL DIRECTION			
ULTIMATE TENSILE STRENGTH	psi	30000	35000
ULTIMATE COMPRESSION STRENGTH	psi	30000	35000
ULTIMATE FLEXURAL STRENGTH	psi	30000	35000
TENSILE MODULUS	psi X 10 ⁶	2.5	2.7
COMPRESSIVE MODULUS	psi X 10 ⁶	2.5	2.7
FLEXURAL MODULUS	psi X 10 ⁶	1.8	2.1
ULTIMATE SHEAR STRENGTH	psi	4000	4500
ULTIMATE BEARING STRESS	psi	30000	35000
IZOD IMPACT STRENGTH	ft-lbs/in	25	30
TRANSVERSE DIRECTION			
ULTIMATE TENSILE STRENGTH	psi	7000	10000
ULTIMATE COMPRESSION STRENGTH	psi	15000	20000
ULTIMATE FLEXURAL STRENGTH	psi	10000	14000
TENSILE MODULUS	psi X 10 ⁶	0.8	1
COMPRESSIVE MODULUS	psi X 10 ⁶	1	1.2
FLEXURAL MODULUS	psi X 10 ⁶	0.8	0.8
ULTIMATE BEARING STRESS	psi	30000	30000
SHEAR MODULUS	psi X 10 ⁶	0.45	0.45
IZOD IMPACT STRENGTH	ft-lbs/in	4	4
FULL SECTION BENDING			
MODULUS OF ELASTICITY	psi X 10 ⁶	2.6	2.8
TENSILE STRENGTH	psi	20000	25000
COMPRESSION STRENGTH	psi	20000	25000
ELECTRICAL			
DIELECTRIC STRENGTH	kv / in	35	35
DIELECTRIC CONSTANT		8	8
DISSIPATION FACTOR		0.03	0.03
ARC RESISTANCE	sec	120	120
THERMAL			
THERMAL COEFFICIENT OF EXPANSION	in/in ^{°f}	5 x 10 ⁻⁶	5 x 10 ⁻⁶
THERMAL CONDUCTIVITY	BTU/ft ² /hr/°f/in	4	4
SPECIFIC GRAVITY			
SOLID SHAPE		1.8	1.8
HOLLOW SHAPE		1.83	1.83
FLAME RETARDANT PROPERTY			
INTERMITTENT FLAME TEST		100	100
FLAMMABILITY TEST			
AVG TIME OF BURNING	SEC	5	5
SURFACE BURNING CHARACTERISTICS	FSI	25	25

TECHNICAL DATA

THERMAL CONTRACTION AND EXPANSION

TEMP DIFFERENTIAL	STEEL ft. (m)	ALUMINUM ft. (m)	FIBERGLASS ft. (m)
25° F (14° C)	320(97)	162(49)	417(126)
50° F (28° C)	160(48)	81(25)	208(63)
75° F (42° C)	106(32)	54(16)	138(42)
100° F (56° C)	80(24)	40(12)	104(32)
125° F (69° C)	63(19)	32(10)	83(25)
150° F (83° C)	53(16)	26(8)	69(21)
175° F (97° C)	45(13)	23(6)	59(17)

- The table above compares the thermal contraction and expansion based on various differentials for steel, aluminum and fiberglass cable trays. The values shown represent the length of the cable trays that will produce a 5/8" movement between expansion connectors. Compared to Steel and Aluminium, Fiber Glass have least movement and less number of expansion joints

EFFECT OF TEMPERATURE IN GRP

TEMPERATURE	POLYESTER STRENGTH (%)	VINYL ESTER STRENGTH (%)
75° F(24° C)	100%	100%
100° F(38° C)	90%	100%
125° F(52° C)	78%	100%
150° F(66° C)	68%	90%
175° F(79° C)	60%	90%
200° F(93° C)	52%	75%

- When exposed to elevated temperatures continuously, strength properties of GRP get reduced. Working loads shall be reduced as shown in the table. Since GRP does not become brittle at below freezing temperatures the load rating capability of the tray doesn't get affected. For high temperatures careful review should be made

APPLICABLE STANDARDS

Our Cable Trays are tested to the following standards. The Test Reports can be provided on request.

STANDARDS	DESCRIPTION
ASTM E 84	Test method for surface burning characteristics of building materials.
ASTM D 635	Test method for rate of burning and/or extent and time of burning of Fiberglass in a horizontal position.
ASTM D 570	Test method for water absorption in Fiberglass.
ASTM D 149	Test method for dielectric breakdown voltage and dielectric strength of solid electrical insulating materials at commercial power frequencies.
ASTM D 638	Test method for tensile properties of Fiberglass.
ASTM D 695	Standard test method for compressive properties of Fiberglass
ASTM D 256	Standard test methods for determining the izod pendulum impact resistance of fiberglass.
ASTM D 2863	Standard test method for measuring the minimum oxygen concentration to support candle-like combustion of Fiberglass (oxygen index).
ASTM D 257	Antistatic properties of the Fiberglass.
ASTM G 154	Standard apparatus for UV exposure of non-metallic materials.

CHEMICAL COMPATIBILITY CHART

CHEMICAL ENVIRONMENT	ISO %W	°C	VINYL %W	°C
ACETIC ACID	10	88	10	99
ACETIC ACID	50	52	50	83
ALUMINIUM CHLORINE	SAT	77	SAT	93
ALUMINIUM HYDROXIDE	SAT	71	SAT	77
ALUMINIUM NITRATE	SAT	66	SAT	77
ALUMINIUM SULFATE	SAT	82	SAT	93
AMMONIUM CHLORIDE	SAT	77	SAT	88
AMMONIUM HYDROXIDE	1	38	10	150
AMMONIUM HYDROXIDE	28	#	28	36
AMMONIUM CARBONATE	#	#	SAT	66
AMMONIUM BICARBONATE	15	52	SAT	54
AMMONIUM NITRATE	SAT	71	SAT	88
AMMONIUM PERSULFATE	SAT	#	SAT	66
AMMONIUM SULFATE	SAT	77	SAT	93
AMYL ALCOHOL	ALL		ALL	32
AMYL ALCOHOL VAPOR	#	60	-	49
BENZENE SULFONIC ACID	25	43	SAT	93
BENZOIC ACID	SAT	66	SAT	93
BENZOLYL ALCOHOL	100		100	N/R
BORAX	SAT	77	SAT	93
CALCIUM CARBONATE	SAT	77	SAT	93
CALCIUM CHLORIDE	SAT	77	SAT	93
CALCIUM HYDROXIDE	25	21	25	74
CALCIUM NITRATE	SAT	82	SAT	93
CALCIUM SULFATE	SAT	82	SAT	93
CARBON DISULFIDE	#	#	#	#
CARBONIC ACID	SAT	54	SAT	82
CARBON DIOXIDE GAS	-	93	-	93
CARBON MONOXIDE GAS	-	93	-	93
CARBON TETRACHLORIDE	#	#	100	24
CHLORINE, DRY GAS	-	60	-	77
CHLORINE, WET GAS	-	#	-	N/R
CHLORINE WATER	SAT	#	SAT	32
CHROMIC ACID	5	21	10	49
CITRIC ACID	SAT	77	SAT	93
COPPER CHLORIDE	SAT	77	SAT	93
COPPER CYANIDE	SAT	77	SAT	93
COPPER NITRATE	SAT	77	SAT	93
CRUDE OIL, SOUR	100	77	100	93

CHEMICAL ENVIRONMENT	ISO %W	°C	VINYL %W	°C
CYCLOHEXANE, VAPOR	ALL	38	ALL	54
DIESEL FUEL	100	71	100	82
DIETHYL ETHER	#	#	#	N/R
DIMETHYL PHTHALATE	#	#	100	27
ETHANOL	50	24	50	32
ETHYL ACETATE	#	#	#	#
ETHYLENE CHLORIDE	#	#	#	#
ETHYLENE GLYCOL	100	32	100	93
FATTY ACIDS	SAT	82	SAT	93
FERRIC CHLORIDE	SAT	77	SAT	93
FERRIC NITRATE	SAT	77	SAT	93
FERRIC SULFATE	SAT	77	SAT	93
FERROUS CHLORIDE	SAT	77	SAT	93
FLUOBORIC ACID	#	#	SAT	74
FLUOSILICIC ACID	#	#	SAT	24
FORMALDEHYDE	50	24	50	36
FORMIC ACID	#	#	50	38
GASOLINE	100	27	100	66
GLUCOSE	100	77	100	93
GLYCERINE	100	66	100	93
HEPTANE	100	43	100	49
HEXANE	100	32	100	54
HYDROBROMIC ACID	50	49	50	46
HYDROCHLORIC ACID	10	66	10	93
HYDROCHLORIC ACID	20	60	20	88
HYDROCHLORIC ACID	37	24	37	35
HYDROFLUORIC ACID	#	#	15	27
HYDROGEN BROMIDE, DRY	100	88	100	93
HYDROGEN BROMIDE, WET	100	24	100	54
HYDROGEN CHLORIDE	-	49	-	93
HYDROGEN PEROXIDE	30	#	30	27
HYDROGEN SULFIDE, DRY	-	60	ALL	82
HYDROGEN SULFIDE, WET	FUM	60	FUM	82
#HYPOCHLOROUS ACID	V	21	20	38
#ISOPROPYL ALCOHOL	#	#	15	27
LACTIC ACID	SAT	77	SAT	93
LEAD ACETATE	SAT	77	SAT	93
LEAD CHLORIDE	SAT	60	SAT	93
LEAD NITRATE	SAT	-	SAT	93

CHEMICAL COMPATIBILITY CHART

CHEMICAL ENVIRONMENT	ISO %W	°C	VINYL %W	°C
LINSEED OIL	100	66	100	88
LITHIUM CHLORIDE	SAT	66	SAT	88
MAGNESIUM CARBONATE	SAT	60	SAT	77
MAGNESIUM CHLORIDE	SAT	60	SAT	93
MAGNESIUM HYDROXIDE	SAT	66	SAT	88
MAGNESIUM NITRATE	SAT	60	SAT	82
MAGNESIUM SULFATE	SAT	77	SAT	88
MERCURIC CHLORIDE	SAT	66	SAT	88
MERCUROUS CHLORIDE	SAT	60	SAT	82
MINERAL OILS	100	77	100	93
NAPHTHA	100	60	100	77
NICKEL CHLORIDE	SAT	77	SAT	93
NICKEL NITRATE	SAT	77	SAT	93
NICKEL SULFATE	SAT	77	SAT	93
NITRIC ACID	5	60	5	66
NITRIC ACID	20	21	20	38
OLEIC ACID	100	77	100	88
OXALIC ACID	ALL	24	ALL	93
PAPER MILL LIQUORS	-	38	-	49
PERCHLORETHYLENE	100	#	100	27
PERCHLORIC ACID	#	#	10	66
PERCHLORIC ACID	#	#	30	27
PHOSPHORIC ACID	10	71	10	93
PHOSPHONIC ACID	100	49	100	93
POTASSIUM ALUMINIUM SULFATE	SAT	77	SAT	93
POTASSIUM BICARBONATE	50	27	50	60
POTASSIUM CARBONATE	10	#	10	49
POTASSIUM CHLORIDE	SAT	77	SAT	95
POTASSIUM DICHROMATE	SAT	77	SAT	93
POTASSIUM HYDROXIDE	#	#	25	66
POTASSIUM NITRATE	SAT	77	SAT	93
POTASSIUM PERMANGANTE	SAT	24	SAT	93
POTASSIUM SULFATE	SAT	77	SAT	93
PROPYLENE GLYCOL	ALL	77	ALL	93
PHTHALIC ACID	-	-	SAT	93
SODIUM ACETATE	SAT	71	SAT	93
SODIUM BENZOATE	SAT	77	SAT	93
SODIUM BICARBONATE	SAT	160	SAT	79
SODIUM BISULFATE	ALL	77	ALL	93

CHEMICAL ENVIRONMENT	ISO %W	°C	VINYL %W	°C
SODIUM BROMIDE	ALL	77	ALL	
SODIUM CARBONATE	10	27	35	
SODIUM CHLORIDE	SAT	77	SAT	
SODIUM CYANIDE	SAT	77	SAT	
SODIUM HYDROXIDE	#	#	10	
SODIUM HYDROXIDE	#	#	25	
SODIUM HYPOCHLORITE	#	#	10	
SODIUM MONOPHOSPHATE	SAT	77	SAT	
SODIUM NITRATE	SAT	77	SAT	
SODIUM SULFATE	SAT	77	SAT	
SODIUM THIOSULFATE	ALL	38	ALL	
STANNIC CHLORIDE	SAT	71	SAT	
SULFATED DETERGENT	0/50	77	0/50	
SULFUR DIOXIDE	100	27	100	
SULFUR TRIOXIDE	100	77	100	
SULFURIC ACID	93	#	93	
SULFURIC ACID	50	#	50	
SULFURIC ACID	25	24	25	
SULFUROUS ACID	SAT	27	#	
TARTARIC ACID	SAT	77	SAT	
TETRACHLOROETHYLENE	#	#	#	
TOLUENE	#	#	#	
TRISODIUM PHOSPHATE	#	#	SAT	
UREA	SAT	54	SAT	
VINEGAR	100	77	100	
WATER, DISTILLED	100	77	100	
WATER, TAP	100	77	100	
WATER, SEA	-	77	-	
ZINC CHLORIDE	SAT	77	SAT	
ZINC NITRATE	SAT	77	SAT	
ZINC SULFATE	SAT	77	SAT	

"#" - Not recommended , "—" - Not Available "v" – Vapour

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UNITED ARAB EMIRATES

P.O. Box: 113403, Dubai

Tel : +971 4 5724787

opr.ae@powersolutionme.com

KINGDOM OF SAUDI ARABIA

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Tel : +966 11 2422511

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