

SURESEAL



PIPE SYSTEMS

SURESEAL DUAL-LAM PIPE SYSTEMS DUAL COMPOSITE LAMINATE

web: www.sureseal.com.au e-mail: peter@sureseal.com.au
tel: (08) 9312 1570 fax: (08) 9312 1748

Factory Unit 14
16 Salpietro Street
Bibra Lake, 6163
Western Australia
ABN 69 805 629 300

Designed to international design code DIN 16965

DUAL-LAM pipe systems rarely produce catastrophic failures

Suitable for higher pressure and full vacuum duties

Impact handling damage and stress cracking is greatly reduced

Lower creep and stress than other lined pipe systems

Not subject to brittle fractures at low temperature

Very good thermal and electrical insulating properties

Some liners (HDPE) offer very good abrasion resistance

Corrosion resistant exterior surface - no need for painting

DUAL-LAM pipe can be colour coded or colour tracers can be included for identification purposes

UV inhibitors and fire retardant exterior finishes can be incorporated

Increased tensile and beam strength reduces pipe support spacing requirements and installation costs

Readily available skills for fusion butt welding of joints limit risk and maintenance down time

Lightweight - easy to manoeuvre and install

Wide choice of liner materials available:
uPVC, cPVC, PP, PE, HDPE, PVDF, E-CTFE,
ETFE, MFA, FEP, PFA, PTFE

While DUAL-LAM pipe is not a double containment system it does provide additional safety protection

Costs are justified by greater service life, lower maintenance costs, and higher process productivity

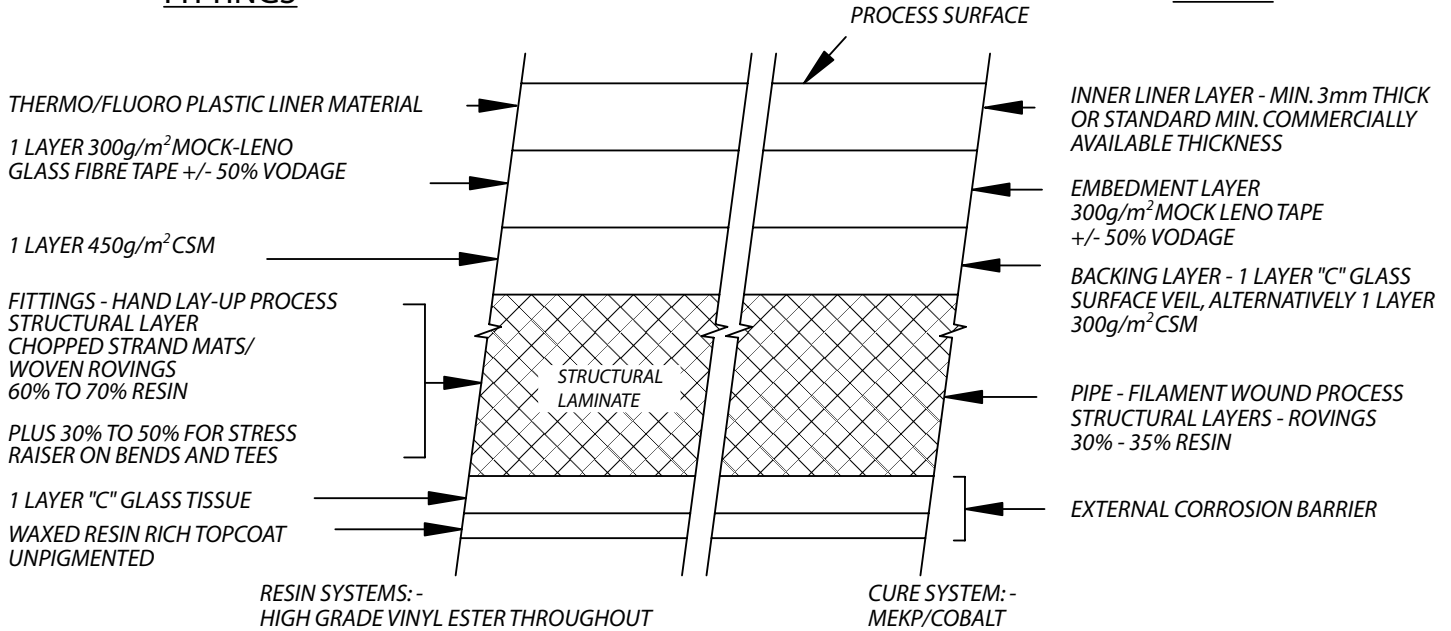


TECHNICAL DATA

CROSS SECTION OF DUAL COMPOSITE LAMINATE

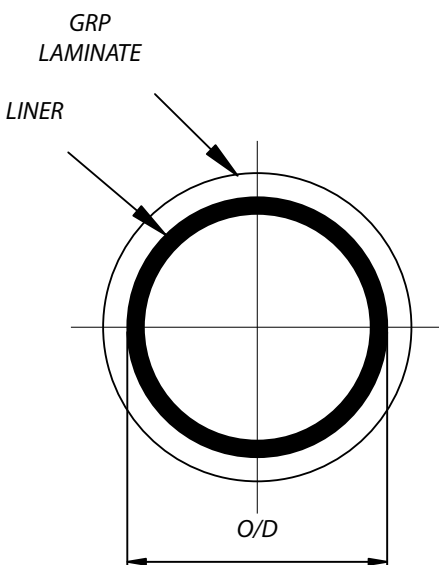
FITTINGS

PIPING



	THERMO/FLUORO PLASTIC LINER MATERIAL	Constant service temperature limit	Short term upper temperature limit
PP	POLYPROPYLENE	100°C	100-110°C
HDPE	HIGH-DENSITY POLYETHYLENE	80°C	80-90°C
uPVC	UNPLASTICISED POLY VINYL CHLORIDE	60°C	60-70°C
PVDF	POLYVINYLIDENE FLUORIDE	140°C	140-150°C
E-CTFE	ETHYLENE-COLORO TRI FLUORO ETHYLENE	150°C	150-160°C

RECOMMENDED LINER WALL THICKNESS



NB	OD	PP	HDPE	uPVC	PVDF	E-CTFE
25	32	2.9	2.9	2.4	2.4	2.4
40	50	4.6	4.8	3.7	3.0	3.0
50	63	3.6	3.8	3.6	3.0	3.0
80	90	5.1	5.4	3.9	3.0	4.3
100	110	6.3	6.6	4.8	3.0	5.3
150	160	6.2	6.2	4.7	3.0	7.7
200	200	6.2	6.2	4.0	3.0	
250	250	7.7	7.7	4.9	3.0	
300	315	9.7	9.7	6.2	4.0	
350	355	10.9	10.9	7.0	4.0	
400	400	6.0	6.0	7.9	5.0	
450	450	6.0	6.0			
500	500	8.0	8.0			
600	630	10.0	10.0			
700	710	12.0	12.0			
800	800	12.0	12.0			

- Liner wall thickness selection is based on suitability of welding to standard fittings and availability.
- Pipe lengths = 5, 5.8, or 6m