

COMPARISON OF SDR & PRESSURE RATINGS FOR PE 80B AND PE100 MATERIALS

	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
PE 80B	PN 3.2	PN 4	–	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	–
PE 100	PN 4	–	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25

Note: SDR Nominal ratio of outside diameter to wall thickness.

PE Classification Long term rupture stress at 20°C (MPa multiplied by 10) to which the minimum safety factor of 1.25 is applied in order to obtain the 20°C design hoop stress.

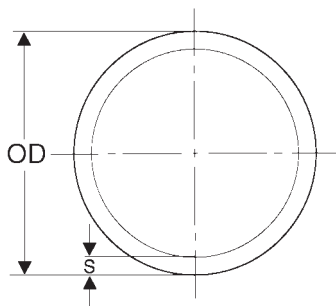
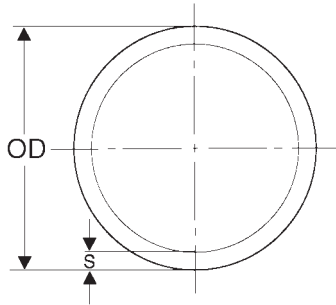
PN Pressure rating at 20°C (MPa multiplied by 10).





PIPE - PE 80 POLYETHYLENE

Standard dimensions & weight PE 80B to AS4130



OD	SDR 33 PN 4(PE80)			SDR 21 PN 6.3(PE80)			SDR 17 PN 8(PE80)		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
20	17	1.8	0.1	17	1.8	0.1	17	1.8	0.1
25	22	1.8	0.1	22	1.8	0.1	22	1.8	0.1
32	29	1.8	0.2	29	1.8	0.2	29	1.8	0.2
40	37	1.8	0.2	36	2.1	0.2	35	2.6	0.3
50	47	1.8	0.3	45	2.6	0.4	44	3.2	0.4
63	59	2.2	0.4	57	3.2	0.6	55	4.1	0.7
75	70	2.5	0.5	67	3.9	0.8	66	4.8	1.0
90	84	3.0	0.8	81	4.6	1.2	79	5.8	1.5
110	103	3.7	1.2	99	5.7	1.8	96	7.0	2.2
125	117	4.2	1.5	112	6.4	2.3	110	7.9	2.8
140	131	4.6	1.9	126	7.1	2.8	123	8.8	3.5
160	150	5.2	2.4	144	8.2	3.7	141	10.1	4.5
200	188	6.6	3.8	180	10.2	5.8	176	12.6	7.1
225	211	7.3	4.8	202	11.4	7.3	198	14.2	9.0
250	235	8.2	5.9	225	12.6	9.0	220	15.6	11.0
280	263	9.1	7.4	252	14.2	11.3	246	17.5	13.8
315	296	10.3	9.4	283	15.8	14.2	277	19.7	17.5
355	334	11.5	11.9	319	17.8	18.1	312	22.3	22.3
400	376	13.0	15.1	360	20.2	23.0	352	25.0	28.2
450	423	14.6	19.1	405	22.7	29.1	396	28.1	35.7
500	470	16.2	23.5	450	25.2	35.9	440	31.2	43.9
560	526	18.2	29.6	504	28.1	45.0	493	35.0	55.2
630	592	20.4	37.3	567	31.6	56.8	554	39.3	69.8
710	667	23.0	47.4	639	35.7	72.3	625	44.3	88.7
800	752	25.8	60.1	720	40.1	91.7	704	49.9	112.5
1000	940	32.2	87.3	904	50.2	136.8	880	62.4	169.5
1200	1126.6	36.7	139	1085.6	57.2	212			

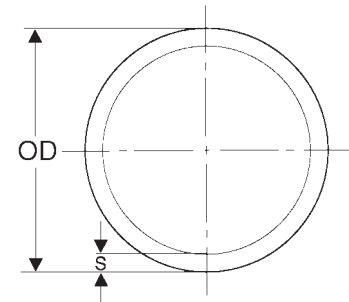
OD	SDR 13.6 PN 10(PE80)			SDR 11 PN 12.5(PE80)			SDR 9 PN 16(PE80)		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
20	17	1.8	0.1	16	2.1	0.1	15	2.5	0.1
25	21	2.1	0.1	20	2.5	0.2	19	3.0	0.2
32	27	2.6	0.2	26	3.1	0.3	24	3.9	0.3
40	34	3.2	0.4	32	4.0	0.4	31	4.8	0.5
50	42	4.0	0.5	40	4.9	0.7	38	6.0	0.8
63	53	5.0	0.9	51	6.2	1.1	48	7.6	1.3
75	64	5.9	1.2	61	7.2	1.5	57	8.9	1.8
90	76	7.0	1.7	73	8.7	2.1	69	10.7	2.6
110	93	8.6	2.6	89	10.6	3.2	84	13.0	3.8
125	106	9.8	3.4	102	12.1	4.1	96	14.8	4.9
140	119	10.9	4.2	114	13.4	5.1	108	16.6	6.2
160	136	12.5	5.5	130	15.4	6.7	123	18.9	8.0
200	170	15.5	8.6	163	19.2	10.4	154	23.6	12.5
225	191	17.5	10.9	183	21.6	13.2	173	26.5	15.8
250	212	19.4	13.5	203	23.9	16.3	192	29.4	19.5
280	238	21.7	16.9	228	26.8	20.4	215	33.0	24.5
315	268	24.5	21.4	256	30.1	25.8	242	37.1	31.0
355	302	27.5	27.1	289	33.9	32.8	273	41.7	39.3
400	340	31.0	34.4	325	38.2	41.6	308	47.0	49.9
450	382	34.9	43.5	366	43.0	52.7	346	52.9	63.2
500	425	38.7	53.7	407	47.8	65.0	385	58.7	77.9
560	476	43.4	67.4	456	53.4	81.4			
630	535	48.9	85.5	513	60.2	103.2			
710	603	54.9	108.2						
800	680	61.8	137.3						



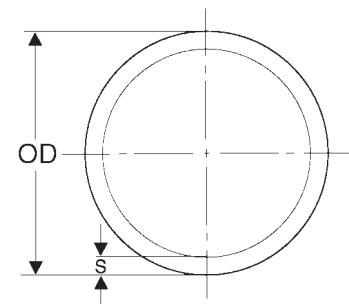
PIPE - PE 100 POLYETHYLENE

Standard dimensions & weight PE 100 to AS4130

OD	SDR 26 PN 6.3(PE100)			SDR 21 PN 8(PE100)			SDR 17 PN 10(PE100)		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
20	17	1.8	0.1	17	1.8	0.1	17	1.8	0.1
25	22	1.8	0.1	22	1.8	0.1	22	1.8	0.1
32	29	1.8	0.2	29	1.8	0.2	28	2.1	0.2
40	37	1.8	0.2	36	2.1	0.2	35	2.6	0.3
50	46	2.2	0.3	45	2.6	0.4	44	3.2	0.4
63	58	2.2	0.5	57	3.2	0.6	55	4.1	0.7
75	69	3.1	0.7	68	3.9	0.8	66	4.8	1.0
90	83	3.8	1.0	81	4.6	1.2	79	5.8	1.5
110	101	4.6	1.4	99	5.7	1.8	96	7.0	2.2
125	115	5.1	1.9	112	6.4	2.3	110	7.9	2.8
140	129	5.8	2.3	126	7.1	2.8	123	8.8	3.5
160	148	6.6	3.0	144	8.2	3.7	141	10.1	4.5
200	185	8.2	4.7	180	10.2	5.8	176	12.6	7.1
225	208	9.1	6.0	202	11.4	7.3	198	14.2	9.0
250	231	10.2	7.3	225	12.6	9.0	220	15.6	11.0
280	259	11.3	9.2	252	14.2	11.3	246	17.5	13.8
315	291	12.8	11.6	283	15.8	14.2	277	19.7	17.5
355	328	14.4	14.7	319	17.8	18.1	312	22.3	22.3
400	370	16.2	18.7	360	20.2	23.0	352	25.0	28.2
450	416	18.2	23.7	405	22.7	29.1	396	28.1	35.7
500	462	20.2	35.9	450	25.2	39.1	440	31.2	43.9
560	517	22.6	36.6	504	28.1	45.0	493	35.0	55.2
630	582	25.4	46.2	567	31.6	56.8	554	39.3	69.8
710	656	28.7	58.6	639	35.7	72.3	625	44.3	88.7
800	739	32.2	74.6	720	40.1	91.7	704	49.9	112.5
1000	924.1	40.2	116.2	904.2	50.2	136.8	879.8	62.4	169.5
1200	1108.2	45.9	172	1085.6	57.2	212			



OD	SDR 13.6 PN 12.5(PE100)			SDR 11 PN 16(PE100)			SDR 9 PN 20(PE100)		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
20	17	1.8	0.1	16	2.1	0.1	15	2.5	0.1
25	21	2.1	0.1	20	2.5	0.2	19	3.0	0.2
32	27	2.6	0.2	26	3.1	0.3	24	3.9	0.3
40	34	3.2	0.4	32	4.0	0.4	31	4.8	0.5
50	42	4.0	0.5	40	4.9	0.7	38	6.0	0.8
63	53	5.0	0.9	51	6.2	1.1	48	7.6	1.3
75	64	5.9	1.2	61	7.2	1.5	57	8.9	1.8
90	76	7.0	1.7	73	8.7	2.1	69	10.7	2.6
110	93	8.6	2.6	89	10.6	3.2	84	13.0	3.8
125	106	9.8	3.4	102	12.1	4.1	96	14.8	4.9
140	119	10.9	4.2	114	13.4	5.1	108	16.6	6.2
160	136	12.5	5.5	130	15.4	6.7	123	18.9	8.0
200	170	15.5	8.6	163	19.2	10.4	154	23.6	12.5
225	191	17.5	10.9	183	21.6	13.2	173	26.5	15.8
250	212	19.4	13.5	203	23.9	16.3	192	29.4	19.5
280	238	21.7	16.9	228	26.8	20.4	215	33.0	24.5
315	268	24.5	21.4	256	30.1	25.8	242	37.1	31.0
355	302	27.5	27.1	289	33.9	32.8	273	41.7	39.3
400	340	31.0	34.4	325	38.2	41.6	308	47.0	49.9
450	382	34.9	43.5	366	43.0	52.7	346	52.9	63.2
500	425	38.7	53.7	407	47.8	65.0	385	58.7	77.9
560	476	43.4	67.4	456	53.4	81.4			
630	535	48.9	85.5	513	60.2	103.2			
710	603	54.9	108.2						
800	680	61.8	137.3						





APPROXIMATE PIPE CAPACITY OF TRUCKS

PIPE O.D. mm	No. OF COILS
63	Coil 45
75	Coil 40
90	Coil 27
110(100m)	Coil 22

Note: Quantity may vary with different SD.R. ratings

PIPE O.D. mm	No. OF PIPES
110 (12m or 20m)	450
125	370
140	330
160	250
200	165
225	114
250	99
280	80
315	63

PIPE O.D. mm	No. OF PIPES
355	50
400	40
450	27
500	24
560	19
630	15
710	11
800	9
1000	5





PIPE DIMENSIONS TO STANDARD AS/NZS 4130 : 1997

SDRs 41, 33 and 26

Standard dimension ratio				SDR 41				SDR 33				SDR 26			
Nominal outside diameter	Mean outside diameter		Out-of-roundness	Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter	
	DN	Min.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
16	16.0	16.3	1.2	1.6	1.9	12.2	13.1	1.6	1.9	12.2	13.1	1.6	1.9	12.2	13.1
20	20.0	20.3	1.2	1.6	1.9	16.2	17.1	1.6	1.9	16.2	17.1	1.6	1.9	16.2	17.1
25	25.0	25.3	1.2	1.6	1.9	21.2	22.1	1.6	1.9	21.2	22.1	1.6	1.9	21.2	22.1
32	32.0	32.3	1.3	1.6	1.9	28.2	29.1	1.6	1.9	28.2	29.1	1.6	1.9	28.2	29.1
40	40.0	40.4	1.4	1.6	1.9	36.2	37.2	1.6	1.9	36.2	37.2	1.6	1.9	36.2	37.2
50	50.0	50.5	1.4	1.6	1.9	46.2	47.3	1.6	1.9	46.2	47.3	2.0	2.3	45.4	46.5
63	63.0	63.6	1.5	1.6	1.9	59.2	60.4	2.0	2.3	58.4	59.6	2.4	2.8	57.4	58.8
75	75.0	75.7	1.6	1.9	2.2	70.6	71.9	2.3	2.7	69.6	71.1	2.9	3.3	68.4	69.9
90	90.0	90.9	1.8	2.2	2.6	84.8	86.5	2.8	3.2	83.6	85.3	3.5	4.0	82.0	83.9
110	110.0	111.0	2.2	2.7	3.1	103.8	105.6	3.4	3.9	102.2	104.2	4.3	4.9	100.2	102.4
125	125.0	126.2	2.5	3.1	3.6	117.8	120.0	3.9	4.4	116.2	118.4	4.9	5.4	114.2	116.6
140	140.0	141.3	2.8	3.5	4.0	132.0	134.3	4.3	4.9	130.2	132.7	5.4	6.1	127.8	130.5
160	160.0	161.5	3.2	4.0	4.5	151.0	153.5	4.9	5.5	149.0	151.7	6.2	7.0	146.0	149.1
180	180.0	181.7	3.6	4.4	5.0	170.0	172.9	5.5	6.2	167.6	170.7	6.9	7.7	164.6	167.9
200	200.0	201.8	4.0	4.9	5.5	189.0	192.0	6.2	7.0	186.0	189.4	7.7	8.6	182.8	186.4
225	225.0	227.1	4.5	5.5	6.2	212.6	216.1	6.9	7.7	209.6	213.3	8.6	9.6	205.8	209.9
250	250.0	252.3	5.0	6.2	7.0	236.0	239.9	7.7	8.6	232.8	236.9	9.6	10.7	228.6	233.1
280	280.0	282.6	9.8	6.9	7.7	264.6	268.8	8.6	9.6	260.8	265.4	10.7	11.9	256.2	261.2
315	315.0	317.9	11.1	7.7	8.6	297.8	302.5	9.7	10.8	293.4	298.5	12.1	13.5	288.0	293.7
355	355.0	358.2	12.5	8.7	9.7	335.6	340.8	10.9	12.1	330.8	336.4	13.6	15.1	324.8	331.0
400	400.0	403.6	14.0	9.8	10.9	378.2	381.8	12.3	13.7	372.6	379.0	15.3	17.0	366.0	373.0
450	450.0	454.1	15.6	11.0	12.2	425.6	432.1	13.8	15.3	419.4	426.5	17.2	19.1	411.8	419.7
500	500.0	504.5	17.5	12.3	13.7	472.6	479.9	15.3	17.0	466.0	473.9	19.1	21.2	457.6	466.3
560	560.0	565.0	19.6	13.7	15.2	529.6	537.7	17.2	19.1	521.8	530.7	21.4	23.7	512.6	522.3
630	630.0	635.7	22.1	15.4	17.1	595.8	604.9	19.3	21.4	587.2	597.1	24.1	26.7	576.6	587.5
710	710.0	716.4	24.9	17.4	19.3	671.4	681.6	21.8	24.1	661.8	672.8	27.2	30.1	649.8	662.0
800	800.0	807.2	28.0	19.6	21.7	756.6	768.0	24.5	27.1	745.8	758.2	30.6	33.8	732.4	746.0
900	900.0	908.1	31.5	22.0	24.3	851.4	864.1	27.6	30.5	839.0	852.9	34.4	38.0	824.0	839.3
1 000	1 000.0	1 009.0	35.0	24.5	27.1	945.8	960.0	30.6	33.8	932.4	947.8	38.2	42.2	915.6	932.6
1 200	1 200.0	1 210.0	42.0	29.4	32.5	1 135.0	1 151.2	36.7	40.5	1 119.0	1 136.6	45.9	50.6	1 098.8	1 118.2
1 400	1 400.0	1 410.0	49.0	34.4	38.0	1 324.0	1 341.2	42.9	47.3	1 305.4	1 324.2	53.2	58.7	1 282.6	1 303.6
1 600	1 600.0	1 610.0	56.0	39.3	43.4	1 513.2	1 531.4	49.0	54.0	1 492.0	1 512.0	61.3	67.6	1 464.8	1 487.4



PIPE DIMENSIONS TO STANDARD AS/NZS 4130 : 1997

SDRs 21, 17 and 13.6

Standard dimension ratio			SDR 21				SDR 17				SDR 13.6				
Nominal outside diameter	Mean outside diameter		Out-of-roundness	Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter	
	DN	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
16	16.0	163	1.2	1.6	1.9	12.2	13.1	1.6	1.9	12.2	13.1	1.6	1.9	12.2	13.1
20	20.0	20.3	1.2	1.6	1.9	16.2	17.1	1.6	1.9	16.2	17.1	1.6	1.9	16.2	17.1
25	25.0	25.3	1.2	1.6	1.9	21.2	22.1	1.6	1.9	21.2	22.1	1.9	2.2	20.6	21.5
32	32.0	32.3	1.3	1.6	1.9	28.2	29.1	1.9	2.2	27.6	28.5	2.4	2.8	26.4	27.5
40	40.0	40.4	1.4	1.9	2.2	35.6	36.6	2.4	2.8	34.4	35.6	3.0	3.4	33.2	34.4
50	50.0	50.5	1.4	2.4	2.8	44.4	45.7	3.0	3.4	43.2	44.5	3.7	4.2	41.6	43.1
63	63.0	63.6	1.5	3.0	3.4	56.2	57.6	3.8	4.3	54.4	56.0	4.7	5.3	52.4	54.2
75	75.0	75.7	1.6	3.6	4.1	66.8	68.5	4.5	5.1	64.8	66.7	5.5	6.2	62.6	64.7
90	90.0	90.9	1.8	4.3	4.9	80.2	82.3	5.4	6.1	77.8	80.1	6.6	7.4	75.2	77.7
110	110.0	111.0	2.2	5.3	6.0	98.0	100.4	6.6	7.4	95.2	97.8	5.1	9.1	91.8	94.8
125	125.0	126.2	2.5	6.0	6.7	111.6	114.2	7.4	8.3	108.4	111.4	9.2	10.3	104.4	107.8
140	140.0	141.3	2.8	6.7	7.5	125.0	127.9	8.3	9.3	121.4	124.7	10.3	11.5	117.0	120.7
160	160.0	161.5	3.2	7.7	8.6	142.8	146.1	9.5	10.6	139.8	142.5	11.8	13.1	133.8	137.9
180	180.0	181.7	3.6	8.6	9.6	160.8	164.5	10.7	11.9	156.2	160.3	13.3	14.8	150.4	155.1
200	200.0	201.8	4.0	9.6	10.7	178.6	182.6	11.9	13.2	173.6	178.0	14.7	16.3	167.4	172.4
225	225.0	227.1	4.5	10.8	12.0	201.0	205.5	13.4	14.9	195.2	200.3	16.6	18.4	188.2	193.9
250	250.0	252.3	5.0	11.9	13.2	223.6	228.5	14.8	16.4	217.2	222.7	18.4	20.4	209.2	215.5
280	280.0	282.6	9.8	13.4	14.9	250.2	255.8	16.6	18.4	243.2	249.4	20.6	22.8	234.4	241.4
315	315.0	317.9	11.1	15.0	16.6	281.8	287.9	18.7	20.7	273.6	280.5	23.2	25.7	263.6	271.5
355	355.0	358.2	12.5	16.9	18.7	317.6	324.4	21.1	23.4	306.2	316.0	26.1	28.9	297.2	306.0
400	400.0	403.6	14.0	19.1	21.2	357.6	365.4	23.7	26.2	347.6	356.2	29.4	32.5	335.0	344.8
450	450.0	454.1	15.6	21.5	23.8	402.4	411.1	26.7	29.5	391.0	400.7	33.1	36.6	376.8	387.9
500	500.0	504.5	17.5	23.9	26.4	447.2	456.7	29.6	32.7	434.6	445.3	36.8	40.6	418.8	430.9
560	560.0	565.0	19.6	26.7	29.5	501.0	511.7	33.2	36.7	486.6	498.7	41.2	45.5	469.0	482.7
630	630.0	635.7	22.1	30.0	33.1	563.8	575.7	37.3	41.2	547.6	561.1	46.3	51.1	527.8	543.1
710	710.0	716.4	24.9	33.9	37.4	635.2	648.6	42.1	46.5	617.0	632.2	52.2	57.6	594.8	612.0
800	800.0	807.2	28.0	38.1	42.1	715.8	731.0	47.4	52.3	695.4	712.4	58.8	64.8	670.4	689.6
900	900.0	909.1	31.5	42.9	47.3	805.4	822.3	53.5	59.0	782.2	801.1	—	—	—	—
1 000	1 000.0	1 009.0	35.0	47.7	52.6	894.8	913.6	59.3	65.4	869.2	890.4	—	—	—	—
1 200	1 200.0	1 210.0	42.0	57.2	63.1	1 073.8	1 095.6	—	—	—	—	—	—	—	—
1 400	1 400.0	1 410.0	49.0	—	—	—	—	—	—	—	—	—	—	—	—
1 600	1 600.0	1 610.0	56.0	—	—	—	—	—	—	—	—	—	—	—	—



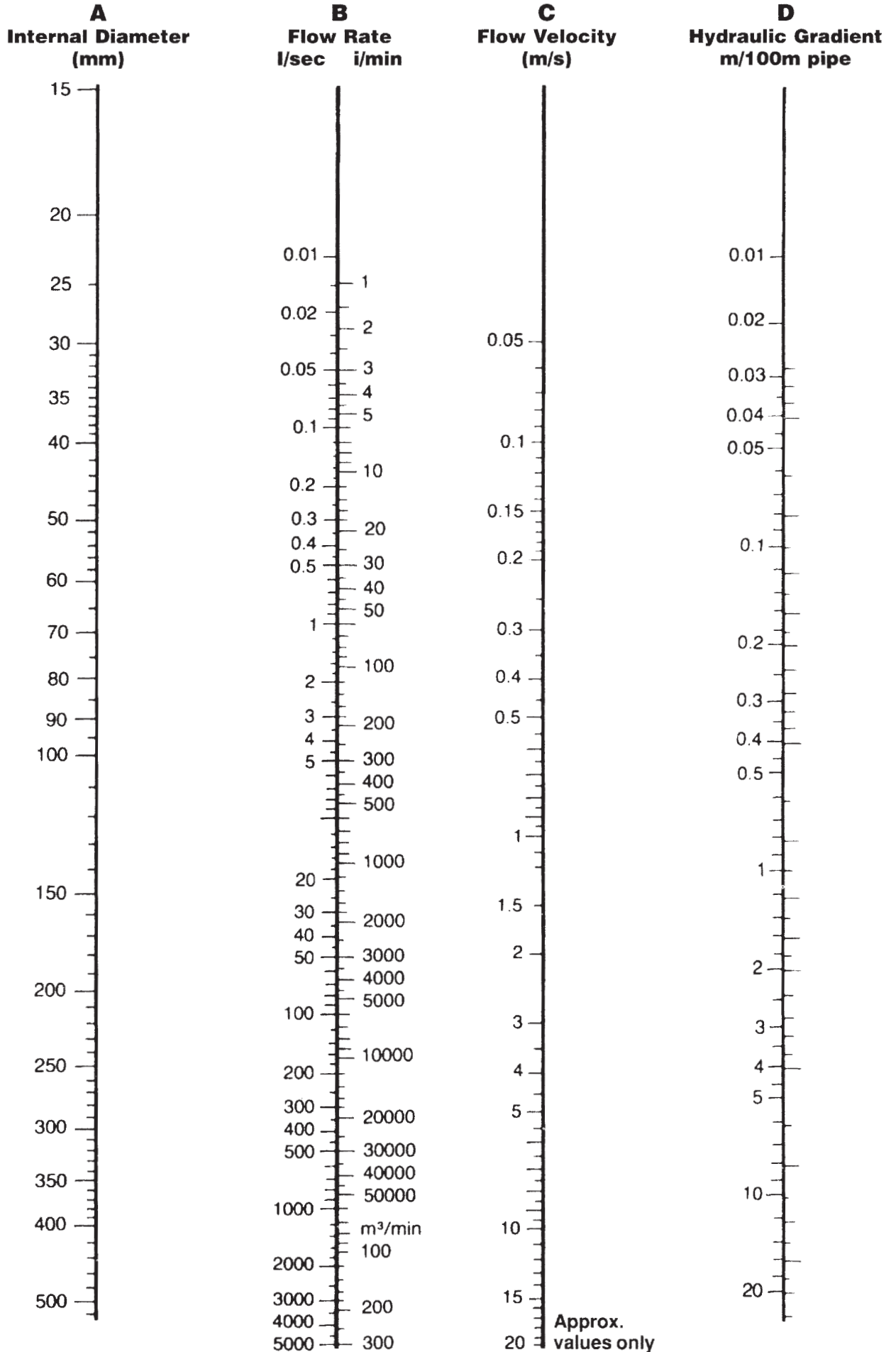
PIPE DIMENSIONS TO STANDARD AS/NZS 4130 : 1997

SDRs 11, 9 and 7.4

Standard dimension ratio				SDR 11				SDR 9				SDR 7.4			
Nominal outside diameter	Mean outside diameter		Out-of-roundness	Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter	
	DN	Min.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
16	16.0	16.3	1.2	1.6	1.9	12.2	13.1	1.8	2.1	11.8	12.7	2.2	2.6	10.8	11.9
20	20.0	20.3	1.2	1.9	2.2	15.6	16.5	2.3	2.7	14.6	15.7	2.8	3.2	13.6	14.7
25	25.0	25.3	1.2	2.3	2.7	19.6	20.7	2.8	3.2	18.6	19.7	3.5	4.0	17.0	18.3
32	32.0	32.3	1.3	2.9	3.3	25.4	26.5	3.6	4.1	23.8	25.1	4.4	5.0	22.0	23.5
40	40.0	40.4	1.4	3.7	4.2	31.6	33.0	4.5	5.1	29.8	31.4	5.5	6.2	27.6	29.4
50	50.0	50.5	1.4	4.6	5.2	39.6	41.2	5.6	6.3	37.4	39.3	6.9	7.7	34.6	36.7
63	63.0	63.6	1.5	5.8	6.5	50.0	52.0	7.1	8.0	47.0	49.4	8.6	9.6	43.8	46.4
75	75.0	75.7	1.6	6.8	7.6	59.8	62.1	8.4	9.4	56.2	58.9	10.3	11.5	52.0	55.1
90	90.0	90.9	1.8	8.2	9.2	71.6	74.5	10.1	11.3	67.4	70.7	12.3	13.7	62.6	66.3
110	110.0	111.0	2.2	10.0	11.1	87.9	91.0	12.3	13.7	82.6	86.4	15.1	16.8	76.4	80.8
125	125.0	126.2	2.5	11.4	12.7	99.6	103.4	14.0	15.5	94.0	98.2	17.1	19.0	87.0	92.0
140	140.0	141.3	2.8	12.7	14.1	111.8	115.9	15.7	17.4	105.2	109.9	19.2	21.3	97.4	102.9
160	160.0	161.5	3.2	14.6	16.2	127.6	132.3	17.9	19.8	120.4	125.7	21.9	24.2	111.6	117.7
180	190.0	181.7	3.6	16.4	18.2	143.6	148.9	20.1	22.3	135A	141.5	24.6	27.2	125.6	132.5
200	200.0	201.8	4.0	18.2	20.2	159.6	165.4	22.4	24.8	150.4	157.0	27.3	30.2	139.6	147.2
225	225.0	227.1	4.5	20.5	22.7	179.6	186.1	25.1	27.8	169.4	176.9	30.8	34.0	157.0	165.5
250	250.0	252.3	5.0	22.7	25.1	199.8	206.9	27.9	30.8	198.4	196.5	34.2	37.8	174.4	183.9
280	280.0	282.6	9.8	25.4	28.1	223.8	231.8	31.3	34.6	210.8	220.0	38.3	42.3	195.4	206.0
315	315.0	317.9	11.1	28.6	31.6	251.8	260.7	35.2	38.9	237.2	247.5	43.0	47.4	220.2	231.9
355	355.0	358.2	12.5	32.2	35.6	283.8	293.8	39.6	43.7	267.6	279.0	48.5	53.5	248.0	261.2
400	400.0	403.6	14.0	36.3	40.1	319.8	331.0	44.7	49.3	301.4	314.2	54.6	60.2	279.6	294.4
450	450.0	454.1	15.6	40.9	45.1	359.8	372.3	50.2	55.4	339.2	353.7	61.5	67.8	314.4	331.1
500	500.0	504.5	17.5	45.4	50.1	399.8	413.7	55.8	61.5	377.0	392.9	—	—	—	—
560	560.0	565.1	19.6	50.8	56.0	448.0	463.5	—	—	—	—	—	—	—	—
630	630.0	635.7	22.1	57.2	63.1	503.8	521.3	—	—	—	—	—	—	—	—
710	710.0	716.4	24.9	—	—	—	—	—	—	—	—	—	—	—	—
800	800.0	807.2	28.0	—	—	—	—	—	—	—	—	—	—	—	—
900	900.0	908.1	31.5	—	—	—	—	—	—	—	—	—	—	—	—
1 000	1 000.0	1 009.0	35.0	—	—	—	—	—	—	—	—	—	—	—	—
1 200	1 200.0	1 210.0	42.0	—	—	—	—	—	—	—	—	—	—	—	—
1 400	1 400.0	1 410.0	49.0	—	—	—	—	—	—	—	—	—	—	—	—
1 600	1 600.0	1 610.0	56.0	—	—	—	—	—	—	—	—	—	—	—	—



FLOW NOMOGRAM (Approximate Values Only)



Approx. values only



Properties of Polyethylene

Typical values of most commonly used properties

Property	Test Method	PE80B	PE80C	PE100
Density kg/m ³	ISO1183D, ISO1872-ZB	950	960	960
Tensile Yield Strength MPa	ISO527	20	21	23
Elongation at Yield %	ISO527	10	8	8
Tensile Break Strength MPa	ISO527	27	33	37
Elongation at Break %	ISO527	> 800	> 600	< 600
Tensile Modulus MPa Short term	ref. AS/NZS 2566	700	750	950
Long term	ref. AS/NZS 2566	200	210	260
Hardness Shore D	DIN 53505	59	60	64
Notched Impact Strength kJ/m ² (23°C)	ISO179/1 e A	35	24	26
Melt Flow Rate 190/5, g/10min	ISO1133	0.7 - 1.0	0.4 - 0.5	0.3 - 0.5
Thermal Expansion x 10 ⁻⁴ /C	DIN 53752	2.4	1.8	2.4
Thermal Conductivity W/m.k (20°C)	DIN 52612	0.43	0.43	0.43
Crystalline Melt Point °C	DIN 53736	125	130	132
Dielectric Strength kV/mm	DIN 53481	70	53	53
Surface Resistivity Ohm	DIN 53482	> 10 ¹⁵	> 10 ¹⁵	> 10 ¹⁵
Volume Resistivity Ohm	DIN 53482	> 10 ¹⁵	> 10 ¹⁵	> 10 ¹⁵
Poissons Ratio μ		.4	.4	.4

Support Spans (metres)

Expansion & Contraction

For above ground pipelines, expansion and contraction movements should be taken up by the pipeline where possible without expansion joints.

This may be achieved in lines laid directly on the natural surface by snaking the pipe during installation and allowing the pipe to move freely in service. Where the final joint connections are made in high ambient temperature sufficient pipe length must be allowed to permit the pipe to cool, and hence contract without pulling out of non end load bearing joints.

SDR (Standard Dimension Ratio)

DN	41	33	26	21	17	13.6	11	9	7.4
16	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
20	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.65	0.65
25	0.65	0.65	0.65	0.65	0.65	0.70	0.70	0.75	0.75
32	0.70	0.70	0.70	0.70	0.75	0.80	0.85	0.90	0.90
40	0.80	0.80	0.80	0.80	0.90	0.90	1.00	1.00	1.10
50	0.85	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25
63	0.95	1.00	1.05	1.10	1.20	1.25	1.30	1.40	1.45
75	1.00	1.10	1.20	1.25	1.35	1.40	1.50	1.55	1.60
90	1.15	1.25	1.35	1.40	1.50	1.60	1.65	1.75	1.80
110	1.35	1.40	1.55	1.60	1.70	1.80	1.90	2.00	2.10
125	1.45	1.55	1.65	1.75	1.85	2.00	2.10	2.20	2.30
140	1.55	1.65	1.80	1.90	2.00	2.10	2.25	2.35	2.45
160	1.70	1.80	1.95	2.10	2.20	2.30	2.45	2.55	2.65
180	1.85	1.95	2.10	2.25	2.35	2.50	2.65	2.80	2.90
200	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.10
225	2.15	2.30	2.45	2.60	2.75	2.90	3.05	3.20	3.35
250	2.30	2.45	2.60	2.75	2.95	3.10	3.30	3.45	3.60
280	2.45	2.65	2.80	3.00	3.20	3.35	3.55	3.70	3.90
315	2.65	2.85	3.05	3.25	3.45	3.65	3.85	4.05	4.20
355	2.90	3.10	3.30	3.50	3.75	3.95	4.15	4.35	4.55
400	3.10	3.35	3.55	3.80	4.05	4.25	4.50	4.70	4.90
450	3.40	3.60	3.85	4.10	4.35	4.60	4.85	5.10	5.35
500	3.60	3.85	4.15	4.40	4.75	4.95	5.20	5.50	
560	3.90	4.15	4.50	4.75	5.05	5.35			
630	4.20	4.50	4.85	5.15	5.45	5.80			
710	4.60	4.90	5.25	5.60	5.95	6.30			
800	4.95	5.30	5.70	6.05	6.45	6.85			
900	5.35	5.70	6.10	6.55	6.95				
1000	5.80	6.15	6.55	7.00	7.35				



Technical references

Pressure, liquid head, stress

Enter at left hand column and read horizontally

	kPa	lbf/in ² (PSI)	kgf/cm ²	ftH ₂ O	mH ₂ O	inHg	mmHg
kPa	1	0.145	0.0102	0.335	0.102	0.295	7.501
lbf/in ² (PSI)	6.895	1	0.0703	2.307	0.703	2.036	51.71
kgf/cm ²	98.067	14.22	1	32.808	10.0	28.96	735.6
ftH ₂ O	2.984	0.433	0.0305	1	0.305	0.881	22.38
mH ₂ O	9.789	1.42	0.1	3.28	1	2.896	73.55
inHg	3.386	0.491	0.035	1.135	0.346	1	25.4
mmHg	0.133	0.019	0.0014	0.045	0.014	0.039	1

100kPa = 1 bar

100kPa = 14.5 psi

Other conversion factors

length

1 in	= 25.4mm	1 mm	= 0.039 37 in
1 ft	= 0.3048m	1 m	= 3.280 84 ft
	= 304.8mm		

area

1 in ²	= 645.16mm ²	1 mm ²	= 0.00155 in ²
1 ft ²	= 0.0929m ²	1 m ²	= 10.7639ft ²
1 hectare	= 2.471054 acres		
	= 10,000 m ²		
1 km ²	= 0.3861 mile ²		

volume

1 US gal	= 3.785 L	1 L	= 0.2642 US gal
1 imp gal	= 4.5461 L		= 0.2200 imp gal
1 in ³	= 16387mm ³	1 mm ³	= 61 x 10. ⁶ in ³
1 ft ³	= 0.0283m ³	1 m ³	= 35.3147ft ³

velocity, speed

1 ft/s	= 0.3048 m/s	1 m/s	= 3.280 84 ft/s
1 mile/h	= 1.609 344 km/h		= 2.236 94 mile/h
	= 0.447 04 m/s	1 km/h	= 0.621 371 mile/h

acceleration

1 ft/s ²	= 0.3048m/s ²	1 m/s	= 3.280 84 ft/s ²
---------------------	--------------------------	-------	------------------------------

flow

1 US gal/min	= 0.63 L/s	1 L/s	= 15.85 US gal/min
	= 63.0915 x 10 ⁶ m ³ /s	1 m ³ /s	= 15850 US gal/min
	= 0.2271m ³ /h	1 m ³ /h	= 4.403 US gal/min
1 imp gal/min	= 0.076 L/s	1 L/s	= 13.2 imp gal/min
	= 0.2728 m ³ /h	1 m ³ /h	= 3.666 imp gal/min
1 ft ³ /min	= 0.472 L/s	1 L/s	= 2.1189 ft ³ /min
	= 1.699 m ³ /h	1 m ³ /h	= 0.5886 ft ³ /min

mass

1 lb	= 0.454 kg	1 kg	= 2.205lb
1 ton	= 1.0160 t	1 t	= 0.9842 ton
1 ounce, troy	= 31.103 grams		

mass per unit length

1 lb/ft	= 1.488 kg/m	1 kg/m	= 0.672 lb/ft
---------	--------------	--------	---------------

mass per unit area

1 lb/ft ²	= 4.882 43 kg/m ²	1 kg/m ²	= 0.204816 lb/ft ²
1 oz/yd ²	= 33.9057 g/m ²	1 g/m ²	= 0.029 494 oz/yd ²
1 oz/ft ²	= 305.152 g/m ²		= 0.003 277 06 oz/ft ²

density (mass/unit volume)

1 lb/ft ³	= 16.0185 kg/m ³	1 kg/m ³	= 0.062 428 lb/ft ³
1 lb/yd ³	= 0.593 278 kg/m ³		= 1.685 56 lb/yd ³
1 ton/yd ³	= 1.328 94 t/m ³	1 t/m ³	= 0.752 48 ton/yd ³

mass per unit time

1 lb/s	= 0.453 592 kg/s	1 kg/s	= 2.204 62 lb/s
1 ton/h	= 1.016 05 t/h	1 t/h	= 0.984 207 ton/h

force

1 lb force	= 4.448 N	1 N	= 0.225 lb force
	= 0.0044 kN	1 kN	= 224.81 lb force
1 kg force	= 9.807 N	1 N	= 0.102 kg force
	= 0.0098 kN	1 kN	= 101.97 kg force

torque

1 lbf.ft	= 1.3558 N.m	1 N.m	= 0.7376 lbf.ft
1 kgf.m	= 9.8067 N.m		= 0.10197 kgf.m

temperature

°F	= $\frac{5}{9}^{\circ}\text{C} + 32$	°C	= $\frac{5}{9}(\text{°F} - 32)$
			= K - 273.15

thermal expansion

1 in/ft	= 83.33 mm/m	1 mm/m	= 0.012 in/ft
---------	--------------	--------	---------------

work, energy, heat (1J = 1Ws)

1 kWh	= 3.6 MJ	1 MJ	= 0.277 778 kWh
1 Btu	= 1.055 06 kJ	1 kJ	= 0.947 817 Btu
	= 1055.06 J		
1 ft.lbf	= 1.355 82 J	1 J	= 0.737 562 ft.lbf

power, heat flow rate

1 hp	= 0.745 700 kW		
	= 745.700 W	1 kW	= 1.341 02 hp
1 Btu/h	= 0.293 071W	1 W	= 3.412 14 Btu/h
1 ft.lbf/s	= 1.355 82 W		= 0.737 562 ft/lbf/s

intensity of heat flow

1 Btu/(ft ² ·h)	= 3.154 59 W/m ²	1 W/m ²	= 0.316 998 Btu/(ft ² ·h)
----------------------------	-----------------------------	--------------------	--------------------------------------

thermal conductance (c value)

1 Btu/(ft ² ·h·°F)	= 5.678 26 W/(m ² ·K)	1 W/(m ² ·K)	= 0.176 110 Btu/(ft ² ·h ·°F)
-------------------------------	----------------------------------	-------------------------	--

thermal conductance (k value)

1 Btu/(ft·h·°F)	= 1.730 73 W/(m·K)	1 W/(m·K)	= 0.577 789 Btu/(ft·h ·°F)
-----------------	--------------------	-----------	----------------------------

calorific value

1 Btu/lb	= 2.326 kJ/kg	1 kJ/kg	= 0.429 923 Btu/lb
1 Btu/ft ³	= 37.2589 kJ/m ³	1 kJ/m ³	= 0.026 839 2 Btu/ft ³

thermal capacity

1 Btu/(lb·°F)	= 4.1868 kJ/(kg·K)	1 kJ/(kg·K)	= 0.238 846 Btu/(lb·°F)
1 Btu/(ft ³ ·°F)	= 67.1066 kJ/(m ³ ·K)	1 kJ/(m ³ ·K)	= 0.014 910 7 Btu/(ft ³ ·°F)



Standard world times

City & Country	GMT		
Adelaide (Australia)	21.30	Kuala Lumpur (Malaysia)	20.00
Alexandria (Egypt)	14.00	Kyoto (Japan)	21.00
Amsterdam (Netherlands)	13.00	Leningrad (USSR)	15.00
Athens (Greece)	14.00	Lisbon (Portugal)	12.00
Auckland (New Zealand)	24.00	London (UK)	12.00
Baghdad (Iraq)	15.00	Los Angeles (USA)	04.00
Bandung (Indonesia)	19.00	Madras (India)	17.30
Bangkok (Thailand)	19.00	Madrid (Spain)	13.00
Barcelona (Spain)	13.00	Manila (Philippines)	20.00
Beijing (China)	20.00	Melbourne (Australia)	22.00
Beirut (Lebanon)	14.00	Mexico City (Mexico)	06.00
Belgrade (Yugoslavia)	13.00	Miami (USA)	07.00
Berlin, West (Germany, Fed. Rep.)	13.00	Milan (Italy)	13.00
Berne (Switzerland)	13.00	Montreal (Canada)	07.00
Bombay (India)	17.30	Moscow (USSR)	15.00
Bonn (Germany, Fed. Rep.)	13.00	Munich (Germany, Fed. Rep.)	13.00
Boston (USA)	07.00	Naples (Italy)	13.00
Brisbane (Australia)	22.00	New Orleans (USA)	06.00
Brussels (Belgium)	13.00	New York (USA)	07.00
Budapest (Hungary)	13.00	Osaka (Japan)	21.00
Buenos Aires (Argentina)	09.00	Oslo (Norway)	13.00
Cairo (Egypt)	14.00	Paris (France)	13.00
Calcutta (India)	17.30	Perth (Australia)	20.00
Canberra (Australia)	22.00	Philadelphia (USA)	07.00
Chicago (USA)	06.00	Port Moresby (Papua New Guinea)	22.00
Chongqing (China)	20.00	Prague (Czechoslovakia)	13.00
Cologne (Germany, Fed. Rep.)	13.00	Pusan (South Korea)	21.00
Colombo (Sri Lanka)	17.30	Quebec (Canada)	07.00
Copenhagen (Denmark)	13.00	Rangoon (Burma)	18.30
Dallas (USA)	06.00	Rio de Janeiro (Brazil)	09.00
Darwin (Australia)	21.30	Rome (Italy)	13.00
Delhi (India)	17.30	Rotterdam (Netherlands)	13.00
Detroit (USA)	07.00	San Francisco (USA)	04.00
Dublin (Ireland)	12.00	Seoul (South Korea)	21.00
Frankfurt (Germany, Fed. Rep.)	13.00	Shanghai (China)	20.00
Geneva (Switzerland)	13.00	Singapore (Singapore)	20.00
Hamburg (Germany, Fed. Rep.)	13.00	Stockholm (Sweden)	13.00
Havana (Cuba)	07.00	Sydney (Australia)	22.00
Helsinki (Finland)	14.00	Taipei (Taiwan)	20.00
Hobart (Australia)	22.00	Tokyo (Japan)	21.00
Ho Chi Minh City (Vietnam)	19.00	Toronto (Canada)	07.00
Honolulu (USA)	02.00	Vancouver (Canada)	04.00
Houston (USA)	06.00	Vienna (Austria)	13.00
Islamabad (Pakistan)	17.00	Warsaw (Poland)	13.00
Istanbul (Turkey)	15.00	Washington (USA)	07.00
Jakarta (Indonesia)	19.00	Wellington (New Zealand)	24.00
Karachi (Pakistan)	17.00	Yokohama (Japan)	21.00
Kowloon (Hong Kong)	20.00	Zurich (Switzerland)	13.00
		Xi'an (China)	20.00



Any Year Calendar

The number opposite each of the hundred years in the list below indicates which of the following calendars is the one for that year. Thus the number opposite 1994 is 7, so calendar 7 can be used for 1994.

Leap years occur in years exactly divisible by four, except that years ending in 00 must be divisible by 400 to be leap years. Thus, 1600, 1984 and 2000 are leap years, but 1800 and 1900 are not.

Easter Day is currently determined as the first Sunday after the full moon on or after March 21.

1921.....7	1947.....4	1973.....2	1999.....6	2025.....4
1922.....1	1948.....12	1974.....3	2000.....14	2026.....5
1923.....2	1949.....7	1975.....4	2001.....2	2027.....6
1924.....10	1950.....1	1976.....12	2002.....3	2028.....14
1925.....5	1951.....2	1977.....7	2003.....4	2029.....2
1926.....6	1952.....10	1978.....1	2004.....12	2030.....3
1927.....7	1953.....5	1979.....2	2005.....7	2031.....4
1928.....8	1954.....6	1980.....10	2006.....1	2032.....12
1929.....3	1955.....7	1981.....5	2007.....2	2033.....7
1930.....4	1956.....8	1982.....6	2008.....10	2034.....1
1931.....5	1957.....3	1983.....7	2009.....5	2035.....2
1932.....13	1958.....4	1984.....8	2010.....6	2036.....10
1933.....1	1959.....5	1985.....3	2011.....7	2037.....5
1934.....2	1960.....13	1986.....4	2012.....8	2038.....6
1935.....3	1961.....1	1987.....5	2013.....3	2039.....7
1936.....11	1962.....2	1988.....13	2014.....4	2040.....8
1937.....6	1963.....3	1989.....1	2015.....5	2041.....3
1938.....7	1964.....11	1990.....2	2016.....13	2042.....4
1939.....1	1965.....6	1991.....3	2017.....1	2043.....5
1940.....9	1966.....7	1992.....11	2018.....2	2044.....13
1941.....4	1967.....1	1993.....6	2019.....3	2045.....1
1942.....5	1968.....9	1994.....7	2020.....11	2046.....2
1943.....6	1969.....4	1995.....1	2021.....6	2047.....3
1944.....14	1970.....5	1996.....9	2022.....7	2048.....11
1945.....2	1971.....6	1997.....4	2023.....1	2049.....6
1946.....3	1972.....14	1998.....5	2024.....9	2050.....7

1				
January				
M	T	W	T	F
30	31			1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29		
February				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28			
March				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
April				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
May				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
June				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
July				
M	T	W	T	F
31				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
August				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
September				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
October				
M	T	W	T	F
30	31			1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
November				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
December				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31

5				
January				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
February				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
March				
M	T	W	T	F
30	31			1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
April				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
May				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
June				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
July				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
August				
M	T	W	T	F
31				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
September				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
October				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
November				
M	T	W	T	F
30				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
December				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31

9				
January				
M	T	W	T	F
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31				
February				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29		
March				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
April				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
May				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
June				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
July				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
August				
M	T	W	T	F
				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
September				
M	T	W	T	F
30				1
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	
October				
M	T	W	T	F



2

January							February							March						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6		
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25
29	30	31					26	27	28					26	27	28	29	30	31	

April							May							June						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
30						1	1	2	3	4	5	6	1	2	3	4	5	6		
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	

July							August							September						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
30	31					1	1	2	3	4	5	6	1	2	3	4	5	6		
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30

October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	5	6	7	8	9	10	11	31					1	2
8	9	10	11	12	13	14	12	13	14	15	16	17	18	3	4	5	6	7	8	9
15	16	17	18	19	20	21	19	20	21	22	23	24	25	10	11	12	13	14	15	16
22	23	24	25	26	27	28	26	27	28	29	30			17	18	19	20	21	22	23
29	30	31					23	24	25	26	27	28	29	24	25	26	27	28	29	30

6

January							February							March								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
						1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14		
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21		
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28		
25	26	27	28	29	30	31	29	30	31					29	30	31						

April							May							June								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
						1	2	3	31					1	2	1	2	3	4	5	6	7
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13		
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20		
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27		
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30						

July							August							September								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
						1	2	3	4	30	31					1	1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12		
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19		
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26		
26	27	28	29	30	31		23	24	25	26	27	28	29	27	28	29	30	31				

October							November							December											
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S					
						1	2	3	31					1	2	3	4	5	1	2	3	4	5	6	7
4	5	6	7	8	9	10	3	4	5	6	7	8	9	6	7	8	9	10	11	12					
11	12	13	14	15	16	17	10	11	12	13	14	15	16	13	14	15	16	17	18	19					
18	19	20	21	22	23	24	17	18	19	20	21	22	23	20	21	22	23	24	25	26					
25	26	27	28	29	30	31	24	25	26	27	28	29	30	27	28	29	30	31							

12

January							February							March									
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S			
						1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7
5	6	7	8	9	10	11	2	3	4	5	6	7	8	8	9	10	11	12	13	14			
12	13	14	15	16	17	18	9	10	11	12	13	14	15	15	16	17	18	19	20	21			
19	20	21	22	23	24	25	16	17	18	19	20	21	22	22	23	24	25	26	27	28			
26	27	28	29	30	31		23	24	25	26	27	28	29	29	30	31							

April							May							June									
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S			
						1	2	3	4	31					1	2	1	2	3	4	5	6	7
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13			
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20			
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27			
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30							

July							August							September								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
						1	2	3	4	30	31					1	1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12		
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19		
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26		
26	27	28	29	30	31		23	24	25	26	27	28	29	27	28	29	30	31				

October							November							December												
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S						
						1	2	3	4	31					1	2	3	4	5	1	2	3	4	5	6	7
4	5	6	7	8	9	10	3	4	5	6	7	8	9	6	7	8	9	10	11	12						
11	12	13	14	15	16	17	10	11	12	13	14	15	16	13	14	15	16	17	18	19						
18	19	20	21	22	23	24	17	18	19	20	21	22	23	20	21	22	23	24	25	26						
25	26	27	28	29	30	31	24	25	26	27	28	29	30	27	28	29	30	31								

3

January							February							March						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6		
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31

April							May							June						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F		



Polymer Fusion Education Pty Ltd
trading as
Polymer Fusion Technology

Location: 125 Sheffield Road
Welshpool WA 6106

Telephone: 08 9258 9444
Facsimile: 08 9258 9555
Email: pft@iinet.net.au
ABN: 47 102 473 049
Mailing Address: PO Box 59
Welshpool DC WA 6986

Web Site: www.pft.com.au

Background

Polymer Fusion Technology (PFT) was established by Bill Carpenter after 15 years of experience in polyethylene (PE) pipe production, on-site QA services for PE pipeline installations, initiating an accredited training program for PE pipe/sheet welder operators and carrying out mechanical testing of PE welded joints.

Scope of Business

PFT has expanded rapidly over the last 3 years with the development of a NATA registered laboratory, incorporating a wide range of test equipment and capable of carrying out various tests on PE pipe, welded joints and sheet materials to the applicable International/Australian Standards.

The recent overseas procurement of an ultrasonic testing capability for on-site non destructive testing (NDT) and analysis of electrofusion joints has elevated PFT to a position of **world leader** in this field.

PFT is a highly acclaimed Registered Training Organization, specializing in the training and National Accreditation of polyethylene pipe/sheet welder operators.