

INSPECTION CERTIFICATE

In accordance with
BS EN 10204 - 3.1
Certificate no. 1804102016

Products	Catalogue Numbers	Pressure rating
Universal slip repair coupler 24-28	176100024028	PN 16
Universal slip repair coupler 31-35	176100031035	PN 16
Universal slip repair coupler 40-43	176100040043	PN 16
Universal slip repair coupler 48-51	176100048051	PN 16
Universal slip repair coupler 60-64	176100060064	PN 16

Test Name	Standard	Test Conditions	Results
Plastic body fitting test	AS/NZS 4129: 2008 clause 1.13.2	20°C 1 hour 2.5*PN=40 bar	Passed > 1 hour
Resistance to Internal Pressure	ISO 17885:2015 clause 9.2.2	95°C 1000 h 0.4*PN=6.4 bar	Passed > 1000 hours
Hydrostatic pressure test for assembled joints	AS/NZS 4129: 2008 clause 2.4.2	20°C 1000 h 1.2*PN=19.2 bar FOLLOWED BY:	Passed >2000 hours
Long- term test for leak tightness of Assembled joints	ISO 17885:2015 clause 9.3.3.2	40°C 1000h 0.80*PN=12.8 bar* (*Not required by ISO 17885)	
assemblies- leak tightness under internal pressure	ISO 17885:2015 clause 9.3.3.1	20°C 1 hour 1.5*PN = 24 bar	Passed > 1 hour
Liquid Infiltration Test	AS/NZS 4129: 2008 clause 2.4.3	20±5°C 1h 0.1 bar FOLLOWED BY	Passed > 2 hours
Leak tightness under negative pressure	ISO 17885:2015 clause 9.3.3.8	20±5°C 1h 0.8 bar	
Leak tightness under internal pressure when subjected to bending	AS/NZS 4129: 2008 clause 2.4.4 ISO 17885:2015 clause 9.3.3.7	20°C 20xD 1.8 PN=28.8 bar* (*ISO 17885 requirement: 1.5*PN=24 bar)	Passed > 1 hour
Resistance to pull-out*	AS/NZS 4129: 2008 clause 2.4.5 ISO 17885:2015 clause 9.3.3.4	23°C 1hour PE 100, SDR 11 pipe DN 25 – 2050N DN 32 – 3300 N DN 40 – 5100 N DN 50 – 7900 N DN 63 – 12500 N	Passed > 1 hour

*For pull-out data of other pipe materials or non metric pipes see annex A.

This is to certify that to the best of our understanding and belief the above tests on the product have been carried in conformity with the requirements of the Standards mentioned above.

Non PE pipes pull out test list:

Fitting Diameter [mm]	Pipe	Standard	Test condition	Result
24-28	28mm copper pipe	WRc 1314-09 Above ground	1970[N] 60 [min]	Pass
24-28	PVC-U 25x1.9 PN16	WRc 1314-13, DVGW-Arbeitsblatt w 534	1265[N] 60[min]	Pass
24-28	Galvanized steel 3/4" (OD 26.7)	WRc 1314-14	1260[N] 60 [min]	Pass
31-35	35mm copper pipe	WRc 1314-09 Above ground	3230[N] 60 [min]	Pass
31-35	PVC-U 32x2.4 PN16	WRc 1314-13, DVGW-Arbeitsblatt w 534	2000[N] 60 [min]	Pass
31-35	Galvanized steel 1" (OD 33.4)	WRc 1314-14	1970[N] 60 [min]	Pass
40-43	PVC-U 40x3.0 PN16	WRc 1314-13, DVGW-Arbeitsblatt w 534	3230[N] 60 [min]	Pass
40-43	1 1/4"Galvanised Steel (OD 42.2)	WRc 1314-14	3230[N] 60 [min]	Pass
48-51	AS1432 TYPE B COPPER TUBES DN50 (OD 50.8)	AS 3688-1994	4000[N] 60 [min]	Pass
		WRc 1314-09 Above ground	5000[N] 60 [min]	
48-51	PVC-U 50x3.7 PN16	WRc 1314-13, DVGW-Arbeitsblatt w 534	5000[N] 60 [min]	Pass
48-51	1 1/2"Galvanised Steel (OD 48.3)	WRc 1314-14	5000[N] 60 [min]	Pass
60-64	PVC-U 63x4.7 PN16	WRc 1314-13, DVGW-Arbeitsblatt w 534	7900[N] 60 [min]	Pass
60-64	AS1432 TYPE B COPPER TUBES DN65 (OD 63.35)	AS 3688-1994	6500[N] 60 [min]	Pass
		WRc 1314-09 Above ground	12650[N] 60 [min]	
60-64	2"Galvanised Steel (OD 60.3)	WRc 1314-14	7900[N] 60 [min]	Pass

PE IPS pipe pull out test list

Fitting Diameter [mm]	Pipe	Standard	Test condition	Result
40-43	1 1/4" IPS SDR 11 PE 3408	ISO 14236:2000 Clause 8.3.4.3 ($\sigma_t=5.6$ as PE80)	4312[N] 60 [min]	Pass
40-43	1 1/4" IPS SDR 11 PE 4710	ISO 14236:2000 Clause 8.3.4.3 ($\sigma_t=7.2$ as PE100)	5544[N] 60 [min]	Pass
48-51	1 1/2" IPS SDR 11 PE 3408	ISO 14236:2000 Clause 8.3.4.3 ($\sigma_t=5.6$ as PE80)	5098[N] 60 [min]	Pass
48-51	1 1/2" IPS SDR 11 PE 4710	ISO 14236:2000 Clause 8.3.4.3 ($\sigma_t=7.2$ as PE100)	6554[N] 60 [min]	Pass
60-64	2" IPS SDR 11 PE 3608	ISO 14236:2000 Clause 8.3.4.3 ($\sigma_t=5.6$ as PE80)	7292[N] 60 [min]	Pass
60-64	2" IPS SDR 11 PE 4710	ISO 14236:2000 Clause 8.3.4.3 ($\sigma_t=7.2$ as PE100)	9211[N] 60 [min]	Pass

PE pipes pull out test WRc 1314/7

Fitting Diameter [mm]	Pipe	Standard	Test condition	Result
24-28	25 PE 80 SDR 11	WRc 1314/7 PE pipes	2500[N] 60 [min]	Pass
31-35	32 PE 80 SDR 11	WRc 1314/7 PE pipes	4100[N] 60[min]	Pass
48-51	50 PE 80 SDR 11	WRc 1314/7 PE pipes	9800[N] 60 [min]	Pass
60-64	63 PE 80 SDR 11	WRc 1314/7 PE pipes	15600[N] 60 [min]	Pass