

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 015**

of **Kiwa Nederland B.V.**
Drinking Water Installations (DWI)
Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

Location(s) where activities are performed under accreditation

Head Office

Sir Winston Churchill-laan 273
2288 EA
Rijswijk
The Netherlands

Location	Abbreviation/ location code
Sir Winston Churchill-laan 273 2288 EA Rijswijk The Netherlands	RIJ
Wilmersdorf 50 7327 AC Apeldoorn The Netherlands	AP
Room 209, No. 46, Nanxiang 3 rd Road Luogang District, Guangzhou 510663 China	GZ
Via Cadriano 23 40057 Granarolo dell'Emilia BO Bologna Italy	BO
On-site	OS

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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Replaces annex dated: **11-12-2024**

No.	Material or product	Type of activity ¹ RvA: refer to testing activities as mentioned in the specific standards, or refer to tests based on specific test equipment in the laboratory.	Internal reference number (IRN)	Location
Polymer materials and products				
1	Polymer materials and products	Tensile and force testing	A-C02 EN-ISO 6259-1 EN-ISO 6259-2 EN-ISO 6259-3	AP
			EN-ISO 6259-1 EN-ISO 6259-2 EN-ISO 6259-3	BO
2		Mass measurements	A-C04 DVGW GW335-A2 DVGW GW335-B2 DVGW W534 DVGW W542 DVGW W544 ISO 10147 EN-ISO 1133-1 ISO 2781	AP
			DVGW W542 DVGW W544 EN-ISO 1133-1	BO
3		Visual assessments (Assessment of surface condition before and/or after testing (e.g. cracks, delamination, blisters etc.))	A-C06 DIN 53357 DVGW GW335-A1 DVGW GW335-A2 DVGW GW335-B2 DVGW W534 DVGW W542 DVGW W544 ISO 10147 EN-ISO 580 EN-ISO 9852	AP
			DVGW GW335-A1 DVGW W542 DVGW W544	BO
4		Displacement testing	A-C07 ISO 2507-1 ISO 2507-2 ISO 2507-3 NEN-EN-ISO 306	AP
			ISO 2507-1 ISO 2507-2 ISO 2507-3 NEN-EN-ISO 306	BO

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
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Operating Forces

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Replaces annex dated: **11-12-2024**

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5		Calorimetric measurements	A-C08 NEN-EN 728 ISO 11357-3 ISO 11357-6	AP
6			ISO 11357-6	BO
7		Calculation methods	A-C09 NEN-EN-ISO 9080 ISO 2578	AP
8		Concentration measurements	A-C10 DVGW GW335-A2 DVGW GW335-B2 DVGW W534 DVGW W544	AP

Pipes & Fittings

9		Pressure testing	B-C01 ISO 1167-1 ISO 1167-2 ISO 1167-3 ISO 1167-4 ISO 13479	AP
			ISO 1167-1 ISO 1167-2 ISO 1167-3 ISO 1167-4	BO
10		Tensile and force testing	B-C02 DIN 53357 DIN 55543-5 EN 921 ISO 17454 ISO 6259-1 ISO 6259-2 ISO 6259-3 EN ISO 9969	AP
			ISO 6259-1 ISO 6259-2 ISO 6259-3 EN ISO 9969	BO
11		Dimensional measurements	B-C03 DVGW W 542 EN-ISO 2505 EN-ISO 3126	AP

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
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Operating Forces

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Replaces annex dated: **11-12-2024**

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			EN-ISO 2505 EN-ISO 3126	BO
12		Leak tightness testing	B-C05 NEN-EN 12293 EN 921 ISO 1167-1 ISO 1167-2 ISO 1167-3 ISO 1167-4	AP
13			ISO 1167-1 ISO 1167-2 ISO 1167-3 ISO 1167-4	BO
14		Visual assessments	B-C06 DVGW W 542 ISO 13955 EN-ISO 2505 EN-ISO 3126	AP
			EN-ISO 2505 EN-ISO 3126	BO
15		Displacement testing	B-C07 EN-ISO 2507-1 EN-ISO 9967	AP
			EN-ISO 2507-1	BO
16		Calculation methods	B-C09 NEN-EN-ISO 9080	AP
17		Temperature/heat measurements	B-C11 DVGW W 544	AP
18		Impact testing	B-C12 EN 1411 EN 744 ISO 11173 EN-ISO 13477 ISO 3127 ISO 9854-1 ISO 9854-2	AP

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 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

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Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

Piping systems / Jointings				
19		Pressure testing	C-C01 ISO 1167-1 ISO 1167-2 ISO 1167-3 ISO 1167-4	AP
			ISO 1167-1 ISO 1167-2 ISO 1167-3 ISO 1167-4	BO
20		Tensile and force testing	C-C02 DVGW W 534 DVGW W 542 ISO 17454 EN-ISO 3501 WRAS test & acceptance criteria: 1314-1 1314-10 1314-11 1314-12 1314-13 1314-14 1314-15 1314-7 1314-8 1314-9	AP
			DVGW W 542 EN-ISO 3501	BO
21		Dimensional measurements	C-C03 DVGW W 534 EN 10226 ISO 228-1 NEN-EN-ISO 2505 ISO 2578 EN-ISO 3126	AP
			NEN-EN-ISO 2505 EN-ISO 3126	BO

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

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22		Leaktightness testing	C-C05 DVGW W 534 NEN-EN 1055 EN 12293 EN 12294; 2000 EN 12295 EN 1254-20 EN-ISO 1167-1 EN-ISO 1167-2 EN-ISO 1167-3 EN-ISO 1167-4 ISO 13056 EN-ISO 13257 ISO 19892 EN-ISO 19893 EN-ISO 3501 EN-ISO 3503 WRAS test & acceptance criteria: 1212-10 1212-6	AP
			EN-ISO 1167-1 EN-ISO 1167-2 EN-ISO 1167-3 EN-ISO 1167-4 EN-ISO 3501 EN-ISO 3503 EN-ISO 13056 EN-ISO 13257 EN-ISO 19893	BO

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 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

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Rubber and Elastomers

23		Tensile and force testing	D-C02 ISO 188 ISO 3384 ISO 34-1 ISO 34-2 ISO 37 ISO 48 ISO 815-1 ISO 815-2	AP
24		Mass measurements	D-C04 ISO 1817	AP
25		Visual assessments	D-C06 ISO 1431-1	AP

No.	Products	Test activity reference number ²	Reference to product standard ³	
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Sanitary tapware & shower items

26	Taps, showerheads, shower systems, flowrate regulators, solenoid valves, etc.	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO 9227	RIJ
			R01 ISO 9227	GZ
27		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 2212.3 2212.10 5011.1	RIJ
			R02 WRAS test & acceptance criteria: 5011.1	GZ

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 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

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Plastic Piping Systems Lab
Operating Forces

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Replaces annex dated: **11-12-2024**

28		Determination of leak tightness/ watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.1 1112.1 1111.5 1111.7 1111.12 1113.1 1212.4 1212.6 2212.9 2211.1 2211.2	RIJ
			R04 WRAS test & acceptance criteria: 1111.1 1111.5 1111.7 1111.12 1112.1 1113.1	GZ
29		Determination of mechanical endurance using automatic or analog test rigs	R05 WRAS test & acceptance criteria: 1211.1 1211.2 1211.3 1211.7 1211.14 1211.21	RIJ
			R05 WRAS test & acceptance criteria: 1211.2 1211.3 1211.5 1211.14 1211.21 1211.1 2211.1 2211.2 2211.3	GZ
30			R06	RIJ

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

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Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

31		Determination of stability of mixing water temperature by using thermocouple, PT100 and/or datalogger	R06	GZ
		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07	RIJ
			WRAS test & acceptance criteria: 1315.1 1315.2 1315.4 1315.5 1315.6	
		R07	GZ	
32		Determination of marking and/or operation by visual assessment	R08	RIJ
			WRAS test & acceptance criteria: 6001.1	
		R08	GZ	
33		Determination of mass, volume or flow using volume meter, flow meter, scale or standardized volumes	R09	RIJ
			R09	GZ

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

of **Kiwa Nederland B.V.**
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Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

Toilet, Bathroom & Kitchen items

34	Water closets, flushing devices & cisterns, Toilet bowls, Vacuum breakers, Bidets, Urinals, Wash basins & sinks, etc.	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO 9227 WRAS test & acceptance criteria: 1411.3	RIJ
35		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 2212.3 2212.10 5011.1 5011.3 5011.5 5011.6 5011.7 5031.1 5031.3	RIJ
36		Determination of functional properties using analog or automatic test equipment	R03 WRAS test & acceptance criteria: 1512.10 1512.11 1512.12 1611.16 1612.1 3212.1 3212.2	RIJ
37		Determination of leak tightness/ watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.1 1111.2 1112.1 1112.7 2212.9 2212.20 1611.16 1612.1	RIJ

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 Normative document: EN ISO/IEC 17025:2017
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Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

38		Determination of mechanical endurance using automatic or analog test rigs	R05 WRAS test & acceptance criteria: 1211.15 1212.4 1211.4	RIJ
39		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07 WRAS test & acceptance criteria: 1311.2 1311.3 1311.4 1312.6 1312.8 1313.1 1313.2 1313.4 1314.5	RIJ
40		Determination of marking and/or operation by visual assessment	R08	RIJ
41		Determination of mass, volume or flow using volume meter, flow meter, scale or standardized volumes	R09 WRAS test & acceptance criteria: 1511.2	RIJ

Connections

42	Threads, fittings and plastic piping systems & other connectors	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO 9227	RIJ
43		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 5011.1	RIJ
44		Determination of leak tightness/watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.1 1112.1 1113.1 1212.6 1113.2 1112.4	RIJ

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Drinking Water Installations (DWI)
Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

45		Determination of mechanical endurance using automatic or analog test rigs	R05 WRAS test & acceptance criteria: 1212.3 1312.2 1312.9	RIJ
46		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07	RIJ
47		Determination of marking and/or operation by visual assessment	R08	RIJ

Fire fighting systems

48	Hose reels with semi-rigid hose & Hose systems with lay-flat hose, etc.	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO9227	RIJ
49		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 5011.1	RIJ
50		Determination of leak tightness/ watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04	RIJ
51		Determination of mechanical endurance using automatic or analog test rigs	R05	RIJ
52		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07	RIJ
53		Determination of marking and/or operation by visual assessment	R08	RIJ
54		Determination of mass, volume or flow using volume meter, flow meter, scale or standardized volumes	R09	RIJ

Fire hydrants

55	Pillar hydrants & underground hydrants	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO9227	RIJ
56		Determination of leak tightness/ watertightness and vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.1 1112.1 1111.2 1112.7	RIJ

of **Kiwa Nederland B.V.**
Drinking Water Installations (DWI)
Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

57		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07	RIJ
58		Determination of marking and/or operation by visual assessment	R08	RIJ
59		Determination of mass, volume or flow using volume meter, flow meter, scale or standardized volumes	R09	RIJ

Hoses

60	Flexible hoses, Shower hoses, etc.	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO 9227	RIJ
61		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 5011.1	RIJ
62		Determination of leak tightness/watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.1 1112.1 1112.5 1212.6 1113.2	RIJ
63		Determination of mechanical endurance using automatic or analog test rigs	R05	RIJ
64		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07	RIJ
65		Determination of mass, volume or flow using volume meter, flow meter, scale or standardized volumes	R09	RIJ

Hot water storage

66	Hot water storage vessels	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO 9227	RIJ
67		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 5011.1 5031.2 5031.3	RIJ

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
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Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

68		Determination of leak tightness/ watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.6 1112.2 1112.8 1112.11 1112.14	RIJ
69		Determination of mechanical endurance using automatic or analog test rigs	R05 WRAS test & acceptance criteria: 1211.16 1211.17	RIJ

Anti pollution devices

70	Check valves, non return valves, backflow preventers, etc.	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO9227	RIJ
71		Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 2213.1 2213.3 2213.4 2213.12 2213.14 2213.15 2213.16 2213.17 2213.18 2213.19 5011.1 5021.3	RIJ
			R02 WRAS test & acceptance criteria: 2213.4, 2213.14 2213.18 2213.19 5011.1	GZ

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 015**

of **Kiwa Nederland B.V.**
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Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

74		Determination of mechanical endurance using automatic or analog test rigs	R05 WRAS test & acceptance criteria: 1211.5 1211.8 1211.18 1211.19 1211.20 1211.21 1211.22 1211.23 1211.24 1211.25 1211.26 1211.12,	RIJ
75		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07 WRAS test & acceptance criteria: 1312.3 1312.11 1312.12 1312.13 1312.14 1312.15 1312.16 1312.17	RIJ
76		Determination of marking and/or operation by visual assessment	R08	RIJ
			R08 WRAS test & acceptance criteria: 2213.5 2213.7	GZ

Valves

77	Stop valves, Pressure reducing valves, Ball valves,	Determination of resistance against corrosion using salt spray or household chemicals	R01 ISO 9227	RIJ
78	Relief valves, Industrial valves, Hydraulic and float	Determination of dimensions using manual operated or dedicated measuring devices	R02 WRAS test & acceptance criteria: 5011.1	RIJ

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Drinking Water Installations (DWI)
Plastic Piping Systems Lab
Operating Forces

This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

79	operated valves/ switches, etc.	Determination of functional properties using analog or automatic test equipment	R03 WRAS test & acceptance criteria: 1711.2	RIJ
80		Determination of leak tightness/watertightness and/or vacuum using pressure pick-up probe and/or visual assessment	R04 WRAS test & acceptance criteria: 1111.1 1111.3 1111.4 1112.1 1113.5	RIJ
81		Determination of mechanical endurance using automatic or analog test rigs	R05 WRAS test & acceptance criteria: 1212.4 1212.7	RIJ
82		Determination of resistance against deformation and/or damage by using torque wrench, force meter or weights	R07 WRAS test & acceptance criteria: 1312.5	RIJ
83		Determination of marking and/or operation by visual assessment	R08	RIJ
84		Determination of mass, volume or flow using volume meter, flow meter, scale or standardized volumes	R09 WRAS test & acceptance criteria: 1512.8	RIJ

² Activities that are referred to in the specific product standards listed in the adjacent column

³ Product standards that specifically refer to testing activities which shall be performed under ISO/IEC 17025 accreditation

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 015**

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Plastic Piping Systems Lab
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Replaces annex dated: **11-12-2024**

ANNEX A

Items a & b as given below shows the relation between the test activities 1 up to and including 25 as mentioned above and the standards, directive(s) and/or approval requirements in which the accredited test activity is included.

No.	Products	Test activity reference number ²	Reference to product standard ³	
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Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
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Plastic Piping Systems Lab
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This annex is valid from: **22-01-2025** to **01-09-2028**

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Polymer materials, products, piping systems and joints	Pressure testing Tensile and force testing Dimensional measurements Mass measurements Leak tightness testing Visual assessments Displacement testing Calorimetric measurements Calculation methods Concentration measurements Temperature/heat measurements Impact testing	DIN 4726 DVGW GW 335-A2 DVGW GW 335-B2 DVGW GW 335-B3 DVGW GW 335-B4 DVGW W 534 DVGW W 542 DVGW W 544 DVGW ZP 8500 EN 12201-1 EN 12201-2 EN 12201-3 EN 12201-4 EN 12201-5 EN 1451-1 EN 1519-1 EN 1555-1 EN 1555-2 EN 1555-3 EN 1555-4 EN 1555-5 EN 1852-1 ISO 1452-1 ISO 1452-2 ISO 1452-3 ISO 1452-4 ISO 15874-2 ISO 15874-5 ISO 15875-2 ISO 15875-3 ISO 15875-5 ISO 15876-2 ISO 15876-3 ISO 15876-5 ISO 15877-2 ISO 15877-3 ISO 15877-5 ISO 16422 ISO 17484-1 ISO 17885 ISO 21003-2 ISO 21003-3 ISO 21003-5 ISO 22391-2 ISO 22391-3 ISO 22391-5 ISO 4427-1 ISO 4427-2 ISO 4427-3 ISO 4427-4 ISO 4427-5	AP
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Annex to declaration of accreditation (scope of accreditation)
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Plastic Piping Systems Lab
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Replaces annex dated: **11-12-2024**

			ISO 4437-1 ISO 4437-2 ISO 4437-3 ISO 4437-4 ISO 4437-5	
b	Rubber and Elastomers	Tensile and force testing Mass measurements Visual assessments	EN 549 EN 681-1 EN 681-2	AP
Item c up to and including k as given below shows the relation between the test activities 26 up to and including 84 as mentioned above and the standards, directive(s) and/or approval requirements in which the accredited test activity is included.				
c	Sanitary tapware & shower items	R01, R02, R04 up to and incl. R09	EN 200 EN 246 EN 248 EN 816 EN 817 EN 1111 EN 1112 EN 1287 NEN-EN 15091 ISO 9227 NHS DO8 AS/NZS 3718 AS/NZS 3662 AS/NZS 4032.1 AS 5200.037.2 DVGW W574 DVGW ZP 6500	RIJ
			EN 200 EN 248 EN 817 EN 1111 EN 1287 ISO 9227 DVGW W574 DVGW ZP 6500	GZ

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
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Plastic Piping Systems Lab
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Replaces annex dated: **11-12-2024**

d	Toilet, Bathroom & Kitchen items	R01 up to and incl. R09	EN 248 EN 997 EN 14124 NEN-EN 13310 + A1 NEN-EN 695 NEN-EN 14055 NEN-EN 14688 ISO 9227 AS 1172.1 AS 1172.2 AS-NZS 1172-2 paragraph 4.7 and testing against specifications in accordance with AS/NZS 6400 par. 3 AS/NZS 3494 AS/NZS 3982	RIJ
e	Connections	R01, R02, R04, R05, R07, R08	EN 248 EN 1254 EN 10226 EN 12295 ISO 9227	RIJ
f	Fire fighting systems	R01, R02, R04, R05, R07, R08, R09	NEN-EN 671-1 NEN-EN 671-2	RIJ
g	Fire hydrants	R01, R04, R07, R08, R09	EN 248 EN 1074-1 + Annex A EN 1074-6 § 5.3 EN 14384 § 4.6.2.2 EN 14384 § 5.3 ISO 9227	RIJ
h	Hoses	R01, R02, R04, R05, R07, R09	EN 248 EN 1112 EN 1113 EN 13618 EN 16145 ISO 9227 AS 3499	RIJ
i	Hot water storage	R01, R02, R04, R05	EN 248 ISO 9227	RIJ

Annex to declaration of accreditation (scope of accreditation)
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 Registration number: **L 015**

of **Kiwa Nederland B.V.**
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This annex is valid from: **22-01-2025** to **01-09-2028**

Replaces annex dated: **11-12-2024**

j	Anti pollution devices	R01 up to and incl. R05, R07, R08	EN 248 EN 13959 ISO 9227	RIJ
		R02, R04, R08	EN 248 ISO 9227	GZ
k	Valves	R01 up to and incl. R05, R07 up to and incl. R09	EN 248 EN 1074-1 EN 1074-2 + A1 EN 1074-3 EN 1213 EN 1567 EN 13828 ISO 9227	RIJ