

**WATER REGULATIONS
ADVISORY SERVICE**



All sanitary fittings that deliver water from a public mains water supply must comply with the Water Supply (Water Fittings) Regulations (1999) or Scottish Byelaws. These fittings must be of an 'appropriate quality and standard' and must not contaminate the water or cause wastage. Products that are WRAS approved demonstrate this compliance and are recognised by all water suppliers in the UK.

TMV3 SCHEME



The TMV scheme is an independent third party approval scheme administered by BuildCert. The scheme certifies that Type 3 thermostatic mixing valves conform to performance requirements of the NHS specification D08 in Healthcare and Commercial applications in the UK. BuildCert also certifies Type 2 thermostatic mixing valves destined for use in domestic applications to ensure the safe use of hot water in domestic premises.

Reference	Product	WRAS Certificate	Expiry Date	BuildCert Certificate	Expiry Date	Page
20040.10P	10 x BIOFIL sterile spouts with integrated filter L138mm Ø22	WRAS1611077	30/11/21			27
20050A.10P	10 x BIOFIL sterile cartridge filter A, rain effect spray	WRAS1611078	30/11/21			28
20050P.10P	10 x BIOFIL sterile cartridge filter P, rain effect spray	WRAS1611078	30/11/21			28
20060.10P	10 x BIOFIL sterile shower head with integrated filter	WRAS1611079	30/11/21			29
20061.10P	10 x BIOFIL sterile threaded shower head with integrated filter	WRAS1611079	24/11/21			29
2439	*Securitouch mechanical shower mixer (while stock then 2739)	WRAS1511019	30/11/20			-
2439EP	*Securitouch EP shower mixer (while stock then 2739EP)	WRAS1511019	30/11/20			-
2443	Recessed mechanical shower mixer behind wall plate Ø116	WRAS1511020	30/11/20			-
2446	Wall mtd mechanical sink mixer swivel spout L200mm offset SP	WRAS1512007	17/12/20			-
2446EP	Wall mounted EP sink mixer swivel spout L200mm offset SP	WRAS1801001	31/01/23			71
2446EPS	Wall mounted EP sink mixer swivel spout L200 offset std	WRAS1801001	31/01/23			71
2446L	Wall mtd mech sink mixer swivel spt L200mm Hygiene lever SP	WRAS1512007	17/12/20			88
2446LEP	Wall mtd EP mixer swivel spout L200 Hygiene lever offset SP	WRAS1801001	31/01/23			71
2446LEPS	Wall mtd sink EP mixer swivel spout L200 lever offset std	WRAS1801001	31/01/23			71
2510	Mechanical sink mixer swivel spout H150 L230mm sculpt lever	WRAS1311046	30/11/18			80
2510L	Mechanical sink mixer swivel spout H150 L230mm Hygiene lever	WRAS1311046	30/11/18			80
2520	Mechanical basin mixer H.85mm L.135mm + waste, sculpt lever	WRAS1301026	31/01/18			79
2520L	Mechanical basin mixer H.85mm L.135mm + waste, Hygiene lever	WRAS1301026	31/01/18			79
2520T	Mechanical basin mixer H.85mm L.135mm + waste, solid lever	WRAS1301026	31/01/18			79
2522L	Mechanical basin mixer with swivel spout H95mm Hygiene lever	WRAS1311046	30/11/18			80
2522T	Mechanical basin mixer with swivel spout H95mm, solid lever	WRAS1311046	30/11/18			80
2543	Recessed waterproof shower mixer, kit 2/2 (+790BOX)	WRAS1511020	30/11/20			150
2564T1	Mechanical mixer high swivel spout H160 L160mm Hygiene lever	WRAS1311046	30/11/18			83
2564T2	Mechanical mixer high swivel spout H160 L250mm Hygiene lever	WRAS1311046	30/11/18			83
2564T3	Mechanical mixer high swivel spout H300 L160mm Hygiene lever	WRAS1311046	30/11/18			83
2564T4	Mechanical mixer high swivel spout H300 L250mm Hygiene lever	WRAS1311046	30/11/18			83
2621	BIOSAFE mechanical basin mixer H95 no waste, solid lever	WRAS1709056	08/09/22			77
26216	BIOSAFE mech basin mixer H95mm no waste, solid lever, copper	WRAS1709056	08/09/22			77
26216EP	BIOSAFE EP basin mixer H95mm no waste, solid lever, copper	WRAS1709055	08/09/22			67
2621MINIEP	BIOSAFE EP basin mixer H55mm no waste, solid lever	WRAS1709055	08/09/22			67
26216MINI	BIOSAFE mech basin mixer H55mm no waste, solid lever, copper	WRAS1709056	08/09/22			77
26216MINIEP	BIOSAFE EP basin mixer H55mm no waste, solid lever, copper	WRAS1709055	08/09/22			67
2621EP	BIOSAFE EP basin mixer H95 no waste, solid lever	WRAS1709055	08/09/22			67
2621MINI	BIOSAFE mech basin mixer H55mm no waste, solid lever	WRAS1709056	08/09/22			77
2720L	Mechanical basin mixer H.85mm L.120mm + waste, Hygiene lever	WRAS1603021	31/03/21			78
2720LEP	EP basin mixer H.85mm L.120mm + waste, Hygiene lever	WRAS1603020	31/03/21			68
2720T	Mechanical basin mixer H.85mm L.120mm + waste, solid lever	WRAS1603021	31/03/21			78
2720TEP	EP basin mixer H.85mm L.120mm + waste, solid lever	WRAS1603020	31/03/21			68
2739	Securitouch mech. sh. mix, sculpt lever bottom outlet, SP	WRAS1511019	30/11/20			146

Reference	Product	WRAS Certificate	Expiry Date	BuildCert Certificate	Expiry Date	Page
2739EP	SECURITHERM EP shower mixer, sculptured lever, offset SP	WRAS1511019	30/11/20			136
2820L	BIOCLIP mechanical basin mixer H85mm + waste, Hygiene lever	WRAS1603021	31/03/21			78
2820LEP	BIOCLIP EP basin mixer H85mm + waste, Hygiene lever	WRAS1603020	31/03/21			68
2820T	BIOCLIP mechanical basin mixer H85mm + waste, solid lever	WRAS1603021	31/03/21			78
2820TEP	BIOCLIP EP basin mixer H85mm + waste, solid lever	WRAS1603020	31/03/21			68
2870T1	Mixer with BIOCLIP swivel spout H160 + 2 st steel spouts	WRAS1311046	30/11/18			82
2870T3	Mixer with BIOCLIP swivel spout H300 + 2 st steel spouts	WRAS1311046	30/11/18			82
30040.10P	10 x BIOFIL spouts with integrated filter L.138mm Ø22	WRAS1611077	30/11/21			27
30050A.10P	10 x BIOFIL non-sterile cartridge filter A rain effect spray	WRAS1611078	30/11/21			28
30050P.10P	10 x BIOFIL non-sterile cartridge filter P rain effect spray	WRAS1611078	30/11/21			28
30060.10P	10 x BIOFIL shower head with integrated filter	WRAS1611079	30/11/21			29
30061.10P	10 x BIOFIL threaded shower head with integrated filter	WRAS1611079	24/11/21			29
378015	BINOPTIC basin tap M¾" mains 230/12V + trans	WRAS1405016	31/05/19			40
378MCH	BINOPTIC MIX basin mixer M¾" mains 230/12V + trans	WRAS1405016	31/05/19			40
379D13	BINOPTIC c-wall 190 basin tap M¾"spout L135 mains + trans	WRAS1405015	31/05/19			46
379DER	BINOPTIC c-wall 190 basin tap M¾"spout L205 mains + trans	WRAS1405015	31/05/19			46
379ENC	BINOPTIC rec basin tap M¾" spout L200 mains + trans	WRAS1405015	31/05/19			46
379MCH	BINOPTIC MIX c-wall 110 basin mix M¾" mains 230/12V +trans	WRAS1405015	31/05/19			46
44000115	TEMPOMATIC 4 basin tap M½" rec UK mains plug Ø15 stopcock	WRAS1603070	31/03/21			43
440006	TEMPOMATIC 4 basin tap F¾" int. 6V battery + stopcock	WRAS1603070	31/03/21			-
44000615	TEMPOMATIC 4 basin tap M½" 6V battery 15mm + stopcock	WRAS1603070	31/03/21			42
443406	TEMPOMATIC 4 wall mounted basin tap M½" 6V battery L125	WRAS1603071	31/03/21			47
443506	TEMPOMATIC 4 wall mounted basin tap M½" 6V battery L190	WRAS1603071	31/03/21			47
49000115	TEMPOMATIC MIX 4 basin M½" rec UK mains plug Ø15 stopcocks	WRAS1603070	31/03/21			43
490006	TEMPOMATIC MIX 4 basin mixer F¾" 6V battery + stopcocks	WRAS1603070	31/03/21			-
49000615	TEMPOMATIC MIX 4 basin mix M½" 6V battery 15mm +stopcocks	WRAS1603070	31/03/21			42
709000	Recessed vandal proof ROUND shower head M½"	WRAS1403018	31/03/19			151
712000	TONIC JET vandal proof recessed shower head M½"	WRAS1403018	31/03/19			151
732115	PREMIX NANO thermostatic mixer Ø15mm nickel body	WRAS1409058	30/09/19	TMVBC1430	14/08/19	92
732116	PREMIX NANO thermostatic mixer Ø15mm chromed body	WRAS1409058	30/09/19	TMVBC1430	14/08/19	92
734100	TEMPOGENOU angled MM½" lever L350 ~7sec	WRAS1406034	31/06/19			48
735400	TEMPOGENOU inline MM½" lever L350 ~7sec	WRAS1406034	31/06/19			48
735447	TEMPOGENOU inline MM½", lever L350 ~7sec comp. fittings	WRAS1406034	31/06/19			-
H9600	SECURITHERM thermostatic sequential basin mixer H85 L120	WRAS1209110	Renewal	TMVBC1002	Renewal	58
H9600610	SECURITHERM seq basin mixer H85 L120 lever L146 copper tails	WRAS1209110	Renewal	TMVBC1002	Renewal	58
H9605	SECURITHERM therm sequential BIOCLIP basin mixer H85 L120mm	WRAS1209110	Renewal	TMVBC1002	Renewal	58
H9605610	SECURITHERM seq BIOCLIP basin mix H85 L120 lever L146 copper	WRAS1209110	Renewal	TMVBC1002	Renewal	58
H9611P	SECURITHERM therm seq mixer st steel BIOCLIP spout inline SC	WRAS1302012	Renewal	TMVBC1107	Renewal	60
H9614P	SECURITHERM seq mixer st st BIOCLIP spout c-c 200 inline SC	WRAS1302012	Renewal	-		60
H9630	SECURITHERM therm seq shower mix bottom outlet, offset SC	WRAS1410025	30/10/19	TMVBC1363	08/05/19	-
H963015	SECURITHERM therm seq shower mixer btm outlet inline SC, 15mm	WRAS1410025	30/10/19	TMVBC1363	08/05/19	106
H9632	SECURITHERM seq recessed waterproof shower kit 2/2 (+790BOX)	WRAS1512029	17/12/20	TMVBC1824	14/12/21	109
H9640	SECURITHERM thermostatic seq shower top outlet offset SC	WRAS1410025	30/10/19	TMVBC1363	08/05/19	-
H964015	SECURITHERM therm seq shower mixer top outlet inline SC, 15mm	WRAS1410025	30/10/19	TMVBC1363	08/05/19	106
H9741	SECURITHERM thermostatic Securitouch shower mixer, offset SC	WRAS1605050	31/05/21			-
H9741TP	SECURITHERM therm Securitouch shower mixer inline, SC TMV3	WRAS1605050	31/05/21	TMVBC1777	14/12/21	116

WHAT IS THE NF MARK?

The NF Mark affixed on a product attests that the latter complies with the relevant standards and with complementary technical specifications requested by the market, where appropriate.

• SANITARY WATER CONTROLS

The characteristics are specified in the technical documents, prepared with the participation of the manufacturers, the distributors, the consumer associations, the laboratories and the public authorities, fixed by AFNOR Certification and monitored by the "Centre Scientifique et Technique du Bâtiment" (CSTB) (Scientific and Technical Building Centre). CSTB carries out tests on the products and the audits on the companies as part of this application.

THE NF MARK IS TO BE FOUND ON WHAT PRODUCTS?

The NF Mark is affixed on the following products:

• SANITARY WATER CONTROLS

- single taps and mixer taps;
- mechanical mixer taps;
- thermostatic mixing valves;
- flow rate regulators;
- shower outlets for sanitary tapware;
- retracting hand sprays for sink and washbasin mixer taps;
- shower hoses for sanitary tapware;
- waste fittings;
- automatic shut-off valves;
- stop valves mounted:
 - upstream from sanitary tapware;
 - on a WC flushing cistern;
 - to supply a washing machine;
- multiway selector;
- automatic diverter, Family H, type C;
- electronic opening and closing valve, and specifies the ratings for some of them.



WATER CONTROLS FOR THE MEDICAL SECTOR (FRENCH STANDARD NF 077)

There is now a specific document which defines the general and technical performance of water controls for the medical sector within the framework of the NF mark. This document, effective from 01/12/2016, applies mainly to mechanical mixers, thermostatic mixers and electronic controls. Water controls in the medical sector can be differentiated from conventional products by the following criteria:

- To ensure accessibility, the whole control lever must be accessible during washing;
- For single hole mixers and taps, the hot and cold water supply must be via copper tails or flexible hoses suitable for the type of application (PEX, silicone);
- For wall-mounted mechanical shower mixers, the control lever must not be horizontal and/or perpendicular to the wall to avoid any risk of harm or injury;
- The mixer outlet may not be fitted with a flow rate regulator with a filter;
- Mixing chambers under pressure are not permitted up stream of the valve closing point;
- To check the effect of age on the water controls due to the disinfection protocols undertaken on the internal water system, the water controls are subject to preventative and curative chemical disinfection treatments;
- The spouts are longer and higher for basin and sink controls, to allow terminal filters to be fitted without impacting user comfort;
- The control levers are longer to improve grip and ergonomics.

The majority of DELABIE's range of hospital controls conform to these criteria and will be certified NF Medical during 2018.

WHAT DOES THE NF MARK ACCORD?

The NF Mark is affixed on the following products and specifies classifications for some of these:

• SANITARY WATER CONTROLS

The mark NF - SANITARY WATER CONTROLS certifies the conformity of products with the approved rules of certification NF 077 from AFNOR Certification. It verifies the general aspect, resistance to corrosion, interchangeability, durability, etc. The actual performance of water controls is specified in the classifications.

> For mechanical mixers

- quality of the surface covering;
- interchangeability of valves;
- tightness before and after endurance test;
- intercommunication between cold water and hot water;
- behaviour when adjusted;
- use comfort depending on the sensitivity, the precision and the temperature constancy;
- mechanical performances;
- wear resistance for the control devices;
- acoustic performances.

> For thermostatic mixers

- quality of the surface covering;
- interchangeability of valves;
- tightness before and after endurance test;
- intercommunication between cold water and hot water;
- flow rates appropriate to the application;
- behaviour when adjusted;
- adjustment precision;
- adjustment sensitivity;
- mixed water temperature stability depending upon:
 - flow rate variation;
 - pressure variation;
 - hot water temperature variation;
- accuracy;
- safety: cold water shut-off and efficiency of the limit stop;
- mechanical performances;
- wear resistance for the control devices;
- acoustic performances.

ECAU/EChAU classification for mixers:

There are 4 basic characteristics and the letters E A U have the following meaning:

- flow rate (E);
- sound (A - acoustics);
- endurance (U);
- withstanding stress of alternated pressure from the ceramic cartridges.

The C or Ch characteristics (like comfort, water savings and energy) correspond to the parameters of the products (dimensions, effort to control and water-saving system).

The C characteristic refers to the domestic sector whilst Ch refers to public and commercial places (Care homes, non-medicalised retirement homes...)

The modalities of the classification are specified here below:

		for mechanical mixers		for thermostatic mixers	
Flow E	Q lpm measured under 3 bar	E00	4 lpm ≤ Q < 6 lpm	4 lpm ≤ Q < 6 lpm	
		E0	9 lpm ≤ Q < 12 lpm	9 lpm ≤ Q < 12 lpm	
		E1	12 lpm ≤ Q < 16 lpm	12 lpm ≤ Q < 16 lpm	
		E2	16 lpm ≤ Q < 20 lpm	16 lpm ≤ Q < 20 lpm	
		E3	20 lpm ≤ Q < 25.2 lpm	20 lpm ≤ Q < 25 lpm	
		E4	Q < 25.2 lpm	Q < 25 lpm	
For bath controls, the minimum classification is E3					
Comfort C	Type	C1	Dimensions, effort to control	Dimensions, effort to control	
		C2	Water-saving system	Water-saving system	
		C3	Energy-saving system	Energy-saving system	
Comfort Ch	Type	Ch1	Dimensions	Dimensions	
		Ch2	Water-saving system	Water-saving system	
		Ch3	Energy-saving system	Energy-saving system	
Acoustics A	Lap dB (A)	A1	20dB (A).< Lap ≤ 30 dB (A)	20dB (A).< Lap ≤ 30 dB (A)	
		A2	15dB (A).< Lap ≤ 20 dB (A)	15dB (A).< Lap ≤ 20 dB (A)	
		A3	Lap ≤ 15 dB (A)	Lap ≤ 15 dB (A)	
Endurance U	Number of cycles	U3	Mobile shutter mechanism: 175,000 cycles Mobile spout: 200,000 cycles Shower-bath diverter: 80,000 cycles	Mobile shutter mechanism: 500,000 cycles Thermostatic cartridge: 50,000 cycles Mobile spout: 200,000 cycles Shower-bath diverter: 80,000 cycles	