

Reverse osmosis membranes MWG, CSM, VONTRON





MWG Membranes



Ref	Description	Fam.	Subfam.	Disp. Stock	
MMRO1812-75	MWG 1.8" MEMBRANE RO1812-75	30	151	OK	
MMRO2012-100	MWG 2" MEMBRANE RO2012-100	30	151	OK	
MMRO2012-150	MWG 2" MEMBRANE RO2012-150	30	151	OK	
MMRO2012-200	MWG 2" MEMBRANE RO2012-200	30	151	OK	
MMRO2812-200	MWG 2.8" MEMBRANE RO2812-200	30	156	OK	
MMRO3012-300	MWG 3" MEMBRANE RO3012-300	30	156	OK	
MMRO3012-400	MWG 3" MEMBRANE RO3012-400	30	156	OK	
MMXLP2521	MWG 2.5" MEMBRANE XLP-2521	30	161	OK	
MMXLP2540	MWG 2.5" MEMBRANE XLP-2540	30	161	OK	
MMXLP4040	MWG 4" MEMBRANE XLP-4040	30	162	OK	
MMULP4021	MWG 4" MEMBRANE ULP-4021	30	162	OK	
MMULP4040	MWG 4" MEMBRANE ULP-4040	30	162	OK	
MMULP4040MR	MWG 4" MEMBRANE ULP-4040MR	30	162	NO	
MMBW4040	MWG 4" MEMBRANE BW-4040	30	162	OK	
MMBW8040	MWG 8" MEMBRANE BW-8040	35	163	OK	
MMBW8040FR	MWG 8" MEMBRANE BW-8040FR	35	163	OK	
MMBW8040HR	MWG 8" MEMBRANE BW-8040HR	35	163	OK	
MMSW2521	MWG 2.5" MEMBRANE SW-2521	30	161	OK	
MMSW2540	MWG 2.5" MEMBRANE SW-2540	30	161	OK	
MMSW4021	MWG 4" MEMBRANE SW-4021	30	162	OK	
MMSW4040HR	MWG 4" MEMBRANE SW-4040HR	30	162	NO	
MMSW4040MR	MWG 4" MEMBRANE SW-4040MR	30	162	OK	
MMSW8040HR	MWG 8" MEMBRANE SW-8040HR	35	163	OK	



MWG Membranes

Ref	Mod.	Permeate flow rate GPD (m ³ /d)	Rejection NaCl (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MMRO1812-75	TW RO	75 (0,28)	98,0	0,37 (4)	X	1	58
MMRO2012-100	TW RO	100 (0,38)	98,0	0,56 (6)	X	1	58
MMRO2012-150	TW RO	150 (0,57)	98,0	0,56 (6)	X	1	58
MMRO2012-200	TW RO	200 (0,76)	97,0	0,75 (8)	X	9	58
MMRO2812-200	TW RO	200 (0,76)	98,0	0,93 (10)	X	1	58
MMRO3012-300	TW RO	300 (1,14)	98,0	1,3 (14)	X	1	58
MMRO3012-400	TW RO	400 (1,52)	98,0	1,3 (14)	X	1	58
MMXLP2521	XLP	300 (1,13)	99,2	1,3 (14)	X	3	X
MMXLP2540	XLP	600 (2,27)	99,2	2,5 (27)	X	3	X
MMXLP4040	XLP	2.400 (9,1)	99,2	7,9 (85)	X	4	X
MMULP4021	LP	950 (3,6)	99,3	3,4 (36)	X	5	61
MMULP4040	LP	2.700 (10,2)	99,4	9,3 (100)	28	5	61
MMULP4040MR	LP	2.200 (8,3)	99,6	9,3 (100)	28	5	61
MMBW4040	BW	2.400 (9,1)	99,6	7,9 (85)	X	6	61
MMBW8040	BW	10.500 (39,7)	99,6	37,2 (400)	X	6	61
MMBW8040FR	BW	9.500 (35,9)	99,7	34 (365)	34	6	X
MMBW8040HR	BW	9.500 (35,9)	99,7	37,2 (400)	X	6	X
MMSW2521	SW	300 (1,13)	99,7	1,3 (14)	X	7	X
MMSW2540	SW	600 (2,27)	99,7	2,5 (27)	X	7	X
MMSW4021	SW	800 (3,04)	99,7	3,4 (36)	X	7	X
MMSW4040HR	SW	1.500 (5,7)	99,75	7,9 (85)	28	7	X
MMSW4040MR	SW	1.800 (6,8)	99,7	7,9 (85)	X	7	61
MMSW8040HR	SW	6.500 (24,6)	99,8	37,2 (400)	28	7	X

Certificates	Manufacturer	Sectors
DM174-2004	MWG	Domestic, Commercial, Industrial



MWG Membranes

Test condition	Pressure (psi)	Temperature of solution NaCl (°C)	Concentration of NaCl solution (ppm)	Concentration of MgSO4 solution (ppm)	pH	Recovery rate (%)
1	60	25	250	-	7,5-8,0	15
2	60	25	250	250	7,5-8,0	15
3	100	25	500	-	7,5-8,0	8
4	100	25	500	-	7,5-8,0	15
5	150	25	1500	-	7,5-8,0	15
6	225	25	2000	-	7,5-8,0	15
7	800	25	32000	-	7,5-8,0	8
8	70	25	500	2000	7,5-8,0	15
9	80	25	250	-	7,5-8,0	15

TW RO: Residential RO - **XLP:** Extra Low Pressure - **BW:** Brackish Water - **NF:** Nano Filtration - **TW NF:** Industrial NF - **LP:** Low Pressure - **SW:** Sea Water



CSM Membranes



Ref	Description	Fam.	Subfam.	Disp. Stock	
MCRE1812-50	CSM 1.8" MEMBRANE RE1812-50	30	150	OK	
MCRE1812-60	CSM 1.8" MEMBRANE RE1812-60	30	150	NO	
MCRE1812-80	CSM 1.8" MEMBRANE RE1812-80	30	150	OK	
MCRE1812-HR+	CSM 1.8" MEMBRANE RE1812-HR+	30	150	OK	
MCRE2012-100	CSM 2" MEMBRANE RE2012-100	30	150	OK	
MCRE2012-150	CSM 2" MEMBRANE RE2012-150	30	150	OK	
MCRE2012-400	CSM 2" MEMBRANE RE2012-400	30	150	OK	
MCRE2012-LP	CSM 2" MEMBRANE RE2012-LP	30	150	OK	
MCRE2012-LPF	CSM 2" MEMBRANE RE2012-LPF	30	150	OK	
MCRE2812-300	CSM 2.8" MEMBRANE RE2812-300	30	155	OK	
MCRE3012-500	CSM 3" MEMBRANE RE3012-500	30	165	OK	
MCRE3512-TK	CSM 3.5" MEMBRANE RE3512-TK	30	155	OK	
MCRE2514-TL	CSM 2.5" MEMBRANE RE2514-TL	30	160	NO	
MCRE2521-BLN	CSM 2.5" MEMBRANE RE2521-BLN	30	160	NO	
MCRE2521-BLF	CSM 2.5" MEMBRANE RE2521-BLF	30	160	NO	
MCRE2540-BLN	CSM 2.5" MEMBRANE RE2540-BLN	30	160	OK	
MCRE2540-BLF	CSM 2.5" MEMBRANE RE2540-BLF	30	160	OK	
MCRE2540-BLR	CSM 2.5" MEMBRANE RE2540-BLR	30	160	OK	
MCRE4021-BLN	CSM 4" MEMBRANE RE4021-BLN	30	165	OK	
MCRE4021-BLF	CSM 4" MEMBRANE RE4021-BLF	30	165	OK	
MCRE4040-BLN	CSM 4" MEMBRANE RE4040-BLN	30	165	OK	
MCRE4040-BLF	CSM 4" MEMBRANE RE4040-BLF	30	165	OK	



CSM Membranes

Ref	Mod.	Permeate flow rate GPD (m ³ /d)	Rejection NaCl (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MCRE1812-50	TW RO	50 (0,19)	98		X	6	58
MCRE1812-60	TW RO	60 (0,22)	98		X	6	58
MCRE1812-80	TW RO	80 (0,30)	98		X	6	58
MCRE1812-HR+	TW RO	80 (0,30)	99		X	6	58
MCRE2012-100	TW RO	100 (0,38)	98		X	6	58
MCRE2012-150	TW RO	150 (0,57)	98	0,59 (6,4)	X	6	58
MCRE2012-400	TW RO	400 (1,52)	96		X	6	58
MCRE2012-LP	TW RO	50 (0,19)	93		X	7	58
MCRE2012-LPF	TW RO	60 (0,22)	93		X	7	58
MCRE2812-300	TW RO	300 (1,14)	96		X	10	58
MCRE3012-500	TW RO	500 (1,90)	97		X	10	x
MCRE3512-TK	TW RO	600 (2,27)	95		X	9	58
MCRE2514-TL	LP	280 (1,06)	99,0	0,7 (7)	X	2	X
MCRE2521-BLN	LP	400 (1,50)	99,2	1,1 (12)	X	2	X
MCRE2521-BLF	LP	400 (1,50)	99,0	1,1 (12)	X	3	X
MCRE2540-BLN	LP	930 (3,50)	99,2	2,5 (27)	X	2	x
MCRE2540-BLF	LP	800 (3,04)	99,2	2,5 (27)	X	3	x
MCRE2540-BLR	LP	740 (2,80)	99,6	2,5 (27)	X	2	x
MCRE4021-BLN	LP	1200 (4,50)	99,2	3,3 (35)	X	2	x
MCRE4021-BLF	LP	1050 (3,88)	99,2	3,3 (35)	X	3	61
MCRE4040-BLN	LP	2600 (9,62)	99,2	7,9 (85)	X	2	61
MCRE4040-BLF	LP	2500 (9,25)	99,2	7,9 (85)	X	3	61



CSM Membranes

Ref	Description	Fam.	Subfam.	Disp. Stock	
MCRE4040-BLR	CSM 4" MEMBRANE RE4040-BLR	30	165	OK	
MCRE8040-BLN	CSM 8" MEMBRANE RE8040-BLN	35	190	OK	
MCRE8040-BLN440	CSM 8" MEMBRANE RE8040-BLN440	35	190	OK	
MCRE8040-BLR	CSM 8" MEMBRANE RE8040-BLR	35	190	OK	
MCRE8040-BLR440	CSM 8" MEMBRANE RE8040-BLR440	35	190	OK	
MCRE8040-BLF	CSM 8" MEMBRANE RE8040-BLF	35	190	OK	
MCRE8040-BLF440	CSM 8" MEMBRANE RE8040-BLF440	35	190	OK	
MCRE2521-BE	CSM 2.5" MEMBRANE RE2521-BE	30	160	NO	
MCRE2540-BE	CSM 2.5" MEMBRANE RE2540-BE	30	160	OK	
MCRE4021-BE	CSM 4" MEMBRANE RE4021-BE	30	165	OK	
MCRE4040-BE	CSM 4" MEMBRANE RE4040-BE	30	165	OK	
MCRE8040-BE440	CSM 8" MEMBRANE RE8040-BE440	35	190	OK	
MCRE8040-BE34	CSM 8" MEMBRANE RE8040-BE34	35	190	OK	
MCRE2540-FEn	CSM 2.5" MEMBRANE RE2540-FEn	30	160	NO	
MCRE4040-FEn	CSM 4" MEMBRANE RE4040-FEn	30	165	OK	
MCRE4040-FLR	CSM 4" MEMBRANE RE4040-FLR	30	165	NO	
MCRE8040-FEn34	CSM 8" MEMBRANE RE8040-FEn34	35	190	OK	
MCRE8040-FEn	CSM 8" MEMBRANE RE8040-FEn	35	190	NO	
MCRE8040-FLR34	CSM 8" MEMBRANE RE8040-FLR	35	190	NO	



CSM Membranes

Ref	Mod.	Permeate flow rate GPD (m ³ /d)	Rejection NaCl (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MCRE4040-BLR	LP	2100 (7,70)	99,6	7,9 (85)	X	2	61
MCRE8040-BLN	LP	12000 (45,4)	99,5	45,4 (400)	x	2	61
MCRE8040-BLN440	LP	13000 (48,1)	99,5	40,9 (440)	x	2	61
MCRE8040-BLR	LP	10000 (37,9)	99,6	37,2 (400)	x	2	61
MCRE8040-BLR440	LP	11000 (41,6)	99,6	40,9 (440)	x	2	61
MCRE8040-BLF	LP	11500 (42,6)	99,2	37,2 (400)	x	3	61
MCRE8040-BLF440	LP	12650 (46,8)	99,2	40,9 (440)	x	3	61
MCRE2521-BE	BW	400 (1,52)	99,5	1,1 (12)	x	1	x
MCRE2540-BE	BW	1000 (3,80)	99,5	2,5 (27)	x	1	x
MCRE4021-BE	BW	1200 (3,80)	99,5	3,3 (35)	x	1	x
MCRE4040-BE	BW	2400 (8,88)	99,7	7,9 (85)	x	1	61
MCRE8040-BN	BW	9500 (35,1)	99,7	33,9 (365)	x	1	61
MCRE8040-BE440	BW	12000 (44,4)	99,7	40,9 (440)	x	1	61
MCRE8040-BE34	BW	11000 (41,6)	99,7	37,2 (400)	34	1	61
MCRE2540-FEn	FR	1000 (3,80)	99,5	2,5 (27)	x	1	x
MCRE4040-FEn	FR	2400 (8,88)	99,7	7,9 (85)	x	1	x
MCRE4040-FLR	FR	2100 (7,90)	99,6	7,9 (85)	x	1	x
MCRE8040-FEn34	FR	11000 (40,7)	99,7	37,2 (400)	34	1	61
MCRE8040-FEn	FR	11000 (40,7)	99,7	37,2 (400)	32	1	61
MCRE8040-FLR34	FR	10000 (37,0)	99,6	37,2 (400)	34	2	61



CSM Membranes

Ref	Description	Fam.	Subfam.	Disp. Stock	
MCRE2540-FHF	CSM 2.5" MEMBRANE RE2540-FHF	30	160	OK	
MCNE2540-90	CSM 2.5" MEMBRANE NE2540-90	30	160	OK	
MCNE4040-90	CSM 4" MEMBRANE NE4040-90	30	165	OK	

Ref	Mod.	Permeate flow rate GPD (m³/d)	Rejection NaCl (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MCRE2540-FHF	SW	1200 (4,50)	99,40	2,5 (27)	x	4	x
MCNE2540-90	NF	500 (1,90)	85-95	2,5 (27)	x	5	x
MCNE4040-90	NF	1700 (6,30)	85-97 90-97	7,9 (85)	x	5	61

Test condition	Pressure (psi)	Temperature of solution NaCl (°C)	Concentration of NaCl solution (ppm)	Concentration of MgSO4 solution (ppm)	pH	Recovery rate (%)
1	225	25	2000	-	6,5-7,0	8 ± 15%
2	150	25	1500	-	6,5-7,0	8 ± 15%
3	100	25	500	-	6,5-7,0	8 ± 15%
4	800	25	32000	-	6,5-7,0	4 ± 8%
5	75	25	2000	500	6,5-7,0	15%
6	60	25	200	-	6,5-7,0	15%
7	20	25	100	-	6,5-7,0	15%
8	60	25	250	-	6,5-7,0	15%
9	60	25	200	-	6,5-7,0	30%
10	80	25	200	-	6,5-7,0	40%
11	150	25	2000	-	6,5-7,0	15%

TW RO: Residential RO - **LP:** Low Pressure - **BW:** Brackish Water - **SW:** Sea Water - **TW NF:** Industrial NF - **FR:** Fouling Resistant - **CR:** Chlorine Resistant - **NF:** Nano Filtration **Produttore:** CSM

Certificates	Manufacturer	Sectors
DM174-2004	CSM	Domestic, Commercial, Industrial



CSM Membranes Brine Seal and Interconnector

- Each membrane element supplied with one brine seal and one interconnector (excepted for 2,5" membrane element, supplied without interconnector).

Ref	Description	Fam.	Subfam.	Disp. Stock	
DC005	EPDM BRINE SEAL 2.5" CSM	30	160	OK	
DD003	EPDM BRINE SEAL 4" CSM	30	165	OK	
EA798	EPDM BRINE SEAL 8" CSM	35	190	OK	

Ref	Description	Material	For Membranes
DC005	EPDM BRINE SEAL 2.5" CSM	EPDM	2,5"
DD003	EPDM BRINE SEAL 4" CSM	EPDM	4"
EA798	EPDM BRINE SEAL 8" CSM	EPDM	8"

Certificates	Manufacturer	Sectors
DM174-2004		Domestic, Industrial

Ref	Description	Fam.	Subfam.	Disp. Stock	
DD004	ABS FEMALE INTERCONNECTOR CSM 2.5" & 4" WITH O-RING - WHITE COLOR	30	165	OK	
EA799	ABS MALE INTERCONNECTOR 1.125" CSM WITH O-RING -BW TYPE BLACK COLOR	35	190	OK	

Ref	Material	Color	For Membranes
DD004	ABS	White	2,5" - 4"
EA799	ABS	Black	8"

Certificates	Manufacturer	Sectors
DM174-2004		Domestic, Industrial



Vontron Membranes



Ref	Description	Fam.	Subfam.	Disp. Stock	
MVULP1812-50	VONTRON 1.8" MEMBRANE ULP1812-50	30	152	OK	
MVULP1812-75	VONTRON 1.8" MEMBRANE ULP1812-75	30	152	OK	
MVULP2012-100	VONTRON 2" MEMBRANE ULP2012-100	30	152	OK	
MVULP2012-200	VONTRON 2" MEMBRANE ULP2012-200	30	152	OK	
MVULP3012	VONTRON 3" MEMBRANE ULP3012-300	30	157	OK	
MVULP3013-1000	VONTRON 3" MEMBRANE ULP3013-1000	30	157	OK	
MVXLP11-4040	VONTRON 4" MEMBRANE XLP11-4040	30	166	OK	
MVULP21-2540	VONTRON 2.5" MEMBRANE ULP21-2540	30	159	OK	
MVULP21-4021	VONTRON 4" MEMBRANE ULP21-4021	30	166	OK	
MVULP21-4040	VONTRON 4" MEMBRANE ULP21-4040	30	166	OK	
MVULP31-4040	VONTRON 4" MEMBRANE ULP31-4040	30	166	OK	
MVULP22-8040	VONTRON 8" MEMBRANE ULP22-8040	35	167	OK	
MVULP32-8040	VONTRON 8" MEMBRANE ULP32-8040	35	167	OK	
MVLP100	VONTRON 4" MEMBRANE LP100	30	166	NO	
MVLP21-4040	VONTRON 4" MEMBRANE LP21-4040	30	166	OK	
MVLP22-8040	VONTRON 8" MEMBRANE LP22-8040	35	167	OK	
MVSW11-4021	VONTRON 4" MEMBRANE SW11-4021	30	166	OK	
MVSW8040LE-400	VONTRON 8" MEMBRANE SW8040LE-400	35	167	NO	



Vontron Membranes

Ref	Mod.	Permeate flow rate GPD (m ³ /d)	Rejection NaCl rate (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MVULP1812-50	TW RO	50 (0,19)	97,5	X X	X	1	58
MVULP1812-75	TW RO	75 (0,28)	97,5	X X	X	1	58
MVULP2012-100	TW RO	100 (0,38)	94,0	X X	X	1	58
MVULP2012-200	TW RO	200 (0,76)	92,0	X X	X	12	
MVULP3012	TW RO	300 (1,14)	97,0	X X	X	3	58
MVULP3013-1000	TW RO	1000 (3,8)	90,0	X X	X	12	
MVXLP11-4040	XLP RO	2.000 (7,6)	98,0	8,4 (90)	X	3	61
MVULP21-2540	LP	750 (2,84)	99,0	2,8 (30)	X	4	61
MVULP21-4021	LP	950 (3,6)	99,0	3,3 (36)	X	4	61
MVULP21-4040	LP	2.400 (9,1)	99,0	8,4 (90)	X	5	61
MVULP31-4040	LP	1.900 (7,2)	99,4	8,4 (90)	X	5	61
MVULP22-8040	LP	12.100 (45,7)	99,0	37,2 (400)	X	5	61
MVULP32-8040	LP	10.500 (39,7)	99,5	37,2 (400)	X	5	61
MVULP440	LP	12.000 (45,4)	99,5	40,9 (440)	X	6	61
MVLP100	LP	2.500 (9,5)	99,7	9,3 (100)	X	7	61
MVLP21-4040	LP	2.400 (9,1)	99,5	8,4 (90)	X	7	61
MVLP22-8040	LP	10.500 (39,7)	99,5	37,2 (400)	X	7	61
MVSW11-4021	SW	750 (2,8)	99,5	3,1 (33)	X	9	61
MVSW8040LE-400	SW	9.000 (34,1)	99,8	37,2 (400)	X	10	61



Vontron Membranes

Test Condition	Pressure (psi)	Temperature of solution NaCl (°C)	Concentration of NaCl Solution (ppm)	Concentration of MgSO4 solution (ppm)	pH	Recovery rate (%)
1	60	25	250	-	6,5-8,5	15
2	60	25	250	CaCl2 250	6,5-8,5	15
3	100	25	500	-	7,5	15
4	150	25	1500	-	7,5	8
5	150	25	1500	-	7,5	15
6	150	25	500	-	7,5	15
7	225	25	2000	-	7,5	15
8	150	25	2000	-	7,5	15
9	800	25	32000	-	7,5	4
10	800	25	32000	-	7,5	8
11	100	25	2000	MgSO4 2000	7,5	15
12	100	25	50	-	7,5	50

TW RO: Residential RO - **XLP RO:** Extra Low Pressure - **BW:** Brackish Water - **SW:** Sea Water - **TW NF:** Industrial NF - **LP:** Low Pressure - **FR:** Sea Water - **NF:** Nano Filtration

Certificates	Manufacturer	Sectors
DM174-2004	Vontron	Domestic, Commercial, Industrial



Antiscaling for R. O. Membranes Permascale Eut 110



- PERMASCALE EUT110 is a product that prevents scales and iron sediment on R.O. membranes systems;
- For industrial systems and for potable water treatment systems;
- Very effective on various kinds of water, minimize the fouling and reduce the frequency of membranes cleaning;
- Particularly suitable for big plants with permeate flows higher than 100 m3/day;
- Compatible with all kinds of membranes;
- Replace totally or partially the acidification;
- Easy to use due to the liquid form.

Use

- Injection by dosing pump of pure or diluted product.
- The dosage is according to the concentration of scaling salts and iron, and can vary from 2 to 10 cm3/m3 of feed water

Instructions and Packaging

- Handling: following safety data sheet. Take the normal precautions to handle chemical products.
- Packaging: 20 kg drum.
- Storage: closed on the original packaging, sheltered from cold and heat.

Characteristics:	
Formulation	special phosphonated
pH	7,8 ± 0,5
Appearance	light yellow liquid
Density a 20°C	1,30 ± 0,05 g/ml
Checking	phosphonated value
Solubility in water	complete

Ref	Description	Fam.	Subfam.	Disp. Stock
EA100	MWG PERMASCALE EUT 110 - DRUM 20 KG	35	191	OK

Certificates	Manufacturer	Sectors
	MWG	Commercial, Industrial



Antiscaling for R.O. Membranes Permascale EUT 120



- PERMASCALE EUT120 is a product that prevents scales and iron sediment on R.O. membranes systems;
- Very effective on various kinds of water, minimize the fouling and reduce the frequency of membranes cleaning;
- Particularly suitable for plants with permeate flows lower than 100 m3/day;
- Compatible with all kinds of membranes;
- Replace totally or partially the acidification;
- Easy to use due to the liquid form.

Use

- Injection by dosing pump of pure or diluted product:
- The dosage is according to the concentration of scaling salts and iron, and can vary from 3 to 13 cm3/m3 of feed water.

Instructions and packaging

- Handling: following safety data sheet. Take the normal precautions to handle chemical products.
- Packaging: 20 kg drum.
- Storage: closed on the original packaging, sheltered from cold and heat.

Characteristics	
Formulation	special phosphonated
pH	7,5 ± 0,5
Appearance	light yellow liquid
Density a 20°C	1,30 ± 0,02 g/ml
Checking	phosphonated value
Solubility in water	complete

Ref	Description	Fam.	Subfam.	Disp. Stock
EA101	MWG PERMASCALE EUT 120 - DRUM 20 KG	35	191	NO

Box: WxLxH	Box: Q.ty	Box: Weight	Pallet: WxLxH	Pallet: Q.ty	Pallet: Weight

Certificates	Manufacturer	Sectors
	MWG	Commercial, Industrial