

# DuraSlick® RO series

## low fouling RO elements

DuraSlick® RO is a family series of membrane elements engineered for use with fouling-prone brackish water applications and industrial effluent treatment before reuse or discharge. DuraSlick RO features a proprietary thin-film innovative low fouling membrane, providing higher hydrophilicity, a smoother membrane surface and lower membrane charge.

Retrofitting exiting systems with the DuraSlick RO will extend operating time between required cleanings, which in turn reduces downtime and expenditures on required chemicals.

**Table 1: Element Specification**

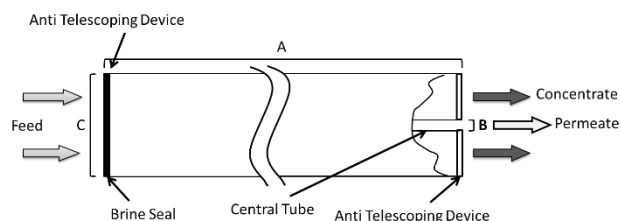
Membrane	Thin-film membrane (TFM*)
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Model	Average permeate flow gpd (m <sup>3</sup> /day)(1)(2)	Average NaCl rejection (1)(2)	Minimum NaCl rejection (1)(2)
DuraSlick RO2540	750 (2.8)	99.5%	99.0%
DuraSlick RO4040	2,300 (8.7)	99.5%	99.0%
DuraSlick RO8040	10,000 (37.9)	99.5%	99.0%

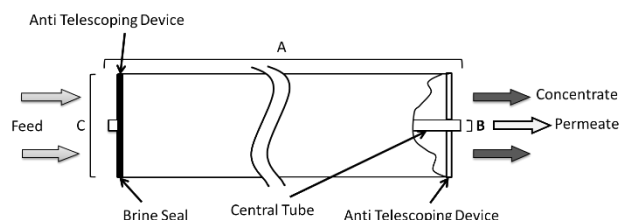
(1) Average salt rejection after 24 hours operation. Individual flow rate may vary ±20%.

(2) Testing conditions: 2,000 ppm NaCl solution at 225 psig (1,551 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery.

Model	Spacer mil (mm)	Active area ft <sup>2</sup> (m <sup>2</sup> )	Outer wrap	Part number
DuraSlick RO2540	35 (0.89)	28 (2.6)	Fiberglass	1231055
DuraSlick RO4040	35 (0.89)	85 (7.9)	Fiberglass	1231048
DuraSlick RO8040	35 (0.89)	370 (34.4)	Fiberglass	1231014



**Figure 1: Element Dimensions Diagram – 8040**



**Figure 2: Element Dimensions Diagram – 2540 & 4040**

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**Table 2: Dimensions and Weight**

Model <sup>1</sup>	Type	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
DuraSlick R02540	Male	40.0 (101.6)	0.75 (1.9)	2.4 (6.1)	7 (3)
DuraSlick R04040	Male	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	11 (5)
DuraSlick R08040	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.0)	35 (16)

**Table 3: Operating and CIP parameters**

<b>Typical Operating Pressure</b>	200psi (1,379 kPa)
<b>Typical Operating Flux</b>	10-15GFD (15-25LMH)
<b>Maximum Operating Pressure</b>	600psi (4,137 kPa)
<b>Maximum Temperature</b>	Continuous Operation: 122°F (50°C) Clean-In-Place: 122°F (50°C)
<b>pH Range</b>	Continuous Operation: 2.0 – 11.0 Clean-In-Place (CIP): 1.0 – 13 (1)
<b>Maximum Pressure Drop</b>	Over an element: 12psi (83 kPa) Per housing: 50psi (345 kPa)
<b>Chlorine Tolerance</b>	1000 ppm x hrs, dechlorination recommended
<b>Feedwater</b>	NTU < 1 SDI <sub>15</sub> < 5

(1) Please refer to Cleaning Guidelines Technical Bulletin TB1194EN