

# DURASLICK™ RO Series

## Reverse Osmosis

### Low Fouling RO

Duraslick™ is a new family series of membrane elements engineered for use with fouling-prone brackish water applications. Duraslick is designed to utilize an innovative three-layer membrane, of which a proprietary middle layer creates extreme smoothness, and provide a high rejection of sodium chloride.

Independent studies have demonstrated that Duraslick RO elements are superior to standard polyamide spiral wound membrane elements for desalination of difficult feed water sources. Duraslick RO elements retrofit existing RO systems to obtain lower fouling, reduced overall energy usage, increased membrane service life and an extension of operating time between required cleanings, which in turn reduces expenditures on required chemicals. Duraslick RO-HS elements are specially designed for comparatively higher suspended solids levels. The Duraslick RO element construction features a fiberglass outer wrap.

### ELEMENT SPECIFICATIONS

MODEL	FLOW GPD (m <sup>3</sup> /d)	REJECTION AVG./MIN.	ACTIVE AREA FT <sup>2</sup> (m <sup>2</sup> )
DURASLICK RO 2540	675 (2.6)	98.6% / 97.0%	27 (2.5)
DURASLICK RO 4040	2,000 (7.6)	98.6% / 97.0%	85 (7.9)
DURASLICK RO 8040	7,700 (29.1)	98.6% / 97.0%	350 (32.5)
DURASLICK RO 4040 HS	1,500 (5.7)	98.6% / 97.0%	64 (5.9)
DURASLICK RO 8040 HS	6,100 (23.1)	98.6% / 97.0%	278 (25.8)

Specification is based on a 500 mg/L NaCl solution at 225 psi (1,551 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery. Individual flux may vary +25%/-15%. Average salt rejection after a minimum of 24 hours of continuous operation.

### OPERATING AND DESIGN PARAMETERS

#### DURASLICK

TYPICAL OPERATING PRESSURE	TYPICAL OPERATING PROCESS FLUX	MAXIMUM PRESSURE	MAXIMUM TEMPERATURE	RECOMMENDED pH	CHLORINE TOLERANCE
200 psig (1,379 kPa)	10-15 GFD (15-25 LMH)	600 psig (4,137 kPa)	122°F (50°C)	Optimum Rejection pH: 5.5-7.0 Operating pH Range: 2.0-11.0 Cleaning pH range: 1.0-11.5	<500 ppm-Hours

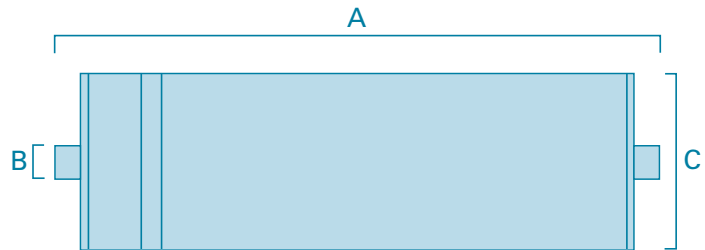


MAXIMUM PRESSURE DROP	ELEMENTS PER PRESSURE VESSEL					
	1	2	3	4	5	6
$\Delta P$ - psig (kPa)	10 (69)	20 (138)	30 (207)	38 (262)	45 (310)	50 (345)

### ELEMENT DIMENSIONS AND WEIGHT

#### MODEL NUMBER LEGEND

**DURASLICK RO 4040 HS**  
 Membrane Type    RO=Reverse Osmosis    HS=High Solids  
 Element Size



MODEL	DIMENSIONS INCHES(MM)			DRY BOXED
	A	B	C	WEIGHT LBS (KG)
DURASLICK RO 2540*	40.00 (1016)	0.750 (19)	2.40 (61)	5 (2.3)
DURASLICK RO 4040*	40.00 (1016)	0.750 (19)	3.88 (99)	12 (5.5)
DURASLICK RO 8040	40.00 (1016)	1.125 (29)	7.88 (200)	32 (14.5)
DURASLICK RO 4040 HS*	40.00 (1016)	0.750 (19)	3.88 (99)	12 (5.5)
DURASLICK RO 8040 HS	40.00 (1016)	1.125 (29)	7.88 (200)	32 (14.5)

Length includes ATDs. Elements are shipped dry.

\* Element includes external permeate tube.

