



# FilmTec™ BW30 PRO-4040 & BW30 PRO-2540 Element

Fiberglassed Large Commercial Elements for Challenging Water Conditions

## Key Features

- Delivers consistent water quality and higher rejection and flow than previous generation FilmTec™ BW30 product
- Based on historical FilmTec™ BW30 industry-standard RO membrane with decades of proven performance
- Outstanding durability resulting in stable, long-term performance and sustainable water solutions
- Enhanced fouling protection
- Dry elements achieve quick stabilization

## Key Applications

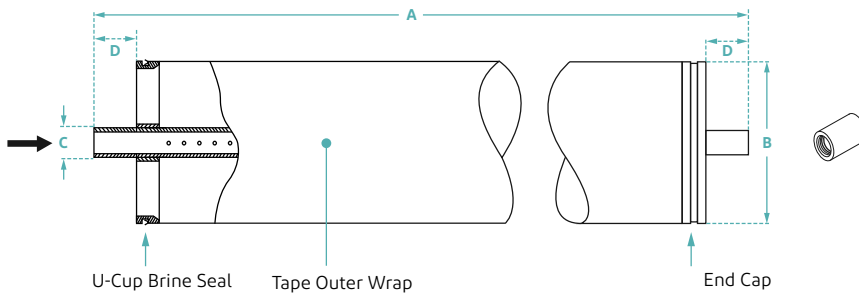
- Light industrial and drinking water applications requiring stringent permeate quality
- Harsh feed water conditions

## Typical Properties

| Product       | Part Number | Active Area<br>ft <sup>2</sup> m <sup>2</sup> | Permeate Flow Rate<br>gpd (m <sup>3</sup> /d) | Stabilized Salt Rejection (%) |
|---------------|-------------|---|---|-------------------------------|
| BW30 PRO-4040 | 12080524    | 85    (7.9)                                   | 2,600 (9.8) ±15%                              | 99.7                          |
| BW30 PRO-2540 | 12081023    | 28    (2.6)                                   | 1,000 (3.8) ±20%                              | 99.7                          |

1. Permeate flow and salt rejection based on the following test conditions: 2,000 ppm NaCl and 225 psig (15.5 bar), pH 8, 77°F (25°C) and 15% recovery.  
2. Minimum salt rejection is 99.5%.

## Element Dimensions



| Dimensions - inches (mm) |               |               |
|--------------------------|---------------|---------------|
|                          | BW30 PRO-4040 | BW30 PRO-2540 |
| A                        | 40.0 (1,016)  | 40.0 (1,016)  |
| B                        | 1.05 (26.7)   | 1.19 (30.2)   |
| C                        | 0.75 (19)     | 0.75 (19)     |
| D                        | 3.9 (99)      | 2.4 (61)      |

1 inch = 25.4 mm

1. BW30 PRO-2540 Elements fit nominal 2.5-inch I.D. pressure vessel.
- BW30 PRO-4040 Elements fit nominal 4-inch I.D. pressure vessel.

FilmTec™ coupler part number 89055 is ordered separately for each element. Each coupler includes two 2-210 EPR O-rings (part number 89255).

## Suggested Operating Conditions

|  |                                 |
|--|---------------------------------|
| Membrane Type                              | Polyamide Thin-Film Composite   |
| Maximum Operating Temperature <sup>1</sup> | 113°F (45°C)                    |
| Maximum Operating Pressure                 | 600 psi (41 bar)                |
| Maximum Feed Flow Rate <sup>3</sup>        |                                 |
| 4040 Elements                              | 16 gpm (3.6 m <sup>3</sup> /hr) |
| 2540 Elements                              | 6 gpm (1.4 m <sup>3</sup> /h)   |
| Maximum Pressure Drop                      |                                 |
| Per Element                                | 15 psig (1.0 bar)               |
| Per Pressure Vessel (Maximum 2 Elements)   | 50 psi (3.4 bar)                |
| pH Range                                   |                                 |
| Continuous Operation <sup>1</sup>          | 2 - 11                          |
| Short-Term Cleaning (30 min.) <sup>2</sup> | 1 - 13                          |
| Maximum Feed Silt Density Index (SDI)      | SDI 5                           |
| Free Chlorine Tolerance <sup>4</sup>       | < 0.1 ppm                       |

1. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
2. Refer to [FilmTec™ Cleaning Guidelines](#) (Form No. 45-D01696-en).
3. For recommended feed and permeate flow rates, flux, and recovery for various feed sources, refer to [FilmTec™ Design Guidelines for multiple-element systems of midsize elements](#) (Form No. 45-D01588-en).
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## General Information

- Keep elements moist at all times after initial wetting.
- For successful operation of Reverse Osmosis (RO) and Nanofiltration (NF) membrane systems, the operation must follow the guidelines provided in the [FilmTec™ Reverse Osmosis / Nanofiltration Elements Operation Excellence and Limiting Conditions Tech Fact](#) (Form No. 45-D04388-en).
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.
- Avoid static permeate-side backpressure at all times.
- Permeate obtained from the first hour of operation should be discarded.
- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

## Important Information.

Please consider good operating practices for the optimal performance of the Reverse Osmosis membrane elements to assure damage free operation:

1. [Loading of Pressure Vessels – Preparation & Element Loading](#) (Form No. 45-D01602-en)
2. System Operation, including plant [Start-Up Sequence](#) (Form No. 45-D01609-en) and [RO & NF Systems Shutdown](#) (Form No. 45-D01613-en)
3. [Handling, Preservation, and Storage](#) (Form No. 45-D03716-en)

Full information of plant design, system operation, and troubleshooting is given in the [FilmTec™ Reverse Osmosis Membranes Technical Manual](#) (Form No. 45-D01504-en).

## Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.



Have a question? Contact us at:  
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