Weed Boom

PVC and XR-5® options | 20 m sections

Floating barriers for aquatic weed containment. The configuration below follows the fabricator's current 20 m offer, including a 300 mm skirt and 430 g/m² knitted HDPE mesh.

Component	PVC option	XR-5 option
Section length	20 m; connectable	20 m; connectable
Skirt	300 mm deep; 430 g/m² high-visibility yellow knitted HDPE	300 mm deep; 430 g/m² high-visibility yellow knitted HDPE
Float chamber	610 g/m² high-visibility yellow PVC	1,020 g/m² black XR-5 reinforced EIA
Flotation core[1]	Closed-cell PE foam	Closed-cell PE foam
UV resistance[2]	Up to 5 years quoted; PVC grade to be confirmed	Up to 10 years, as quoted
Ballast	6 mm galvanised chain in a continuous PVC pocket	6 mm galvanised chain in an XR-5 pocket
Float connectors	Extruded aluminium ASTM F962 Z-connectors	Extruded aluminium ASTM F962 Z-connectors
Skirt connectors	Marine YKK10 zipper	Marine YKK10 zipper
Webbing	50 mm above and below floats	50 mm above and below floats
Handles	At 1.5 m centres	At 1.5 m centres
Anchoring points	316 stainless steel eye nut at water level, single side	316 stainless steel eye nut at water level, single side

Dimensions and supply notes

[1] The standard TDS shows 100 × 100 mm floats, 100 mm freeboard and 400 mm overall height. The current offer also lists a 140 mm diameter foam profile. Confirm the selected profile and finished freeboard before fabrication.

[2] The current offer quotes 5 years for PVC, while the supplier's general email states 3 years. Confirm the selected PVC grade and UV period. XR-5 is quoted at up to 10 years. These float-chamber material statements are not whole-boom service-life guarantees or workmanship warranties.

Tidal risers, anchor packages and custom dimensions are available. The standard PVC TDS states Australian origin, HS code 8907.90 and a one-year workmanship warranty; confirm applicable terms for the custom XR-5 assembly.

Basis: supplier offer SQ02170 dated 17 September 2026 and same-day material clarification; CHWEB07 TDS version 250326. Current offered construction takes precedence over generic brochure data. Material reference data follows on page 2.

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Material properties

PVC fabric and XR-5® reference data

610 g/m² PVC

Property	Supplier-stated value
Tensile strength	Warp 2,400 N/5 cm; weft 2,400 N/5 cm
Tear strength	Warp 450 N/5 cm; weft 400 N/5 cm
Temperature range	-20 °C to +70 °C
Fire test references	AS 1530 Parts 2 and 3; NFPA 701-2004. Manufacturer reports self-extinguishing on removal of the ignition source.

PVC values reproduce the standard TDS. Tensile and tear test methods were not supplied; the listed fire references are not independent certification.

Seaman Corporation 8130 XR-5

XR-5 is a fabric-reinforced ethylene interpolymer alloy (EIA). The quoted 1,020 g/m² is consistent with 8130's published mass, but does not establish the exact grade. The following membrane values apply only if 8130 XR-5 is confirmed.

Property	Test method	8130 reference value
Reinforcement	Manufacturer specification	Polyester; 220 g/m² nominal
Finished mass	ASTM D751	1,017 ± 70 g/m²
Thickness	ASTM D751	0.76 mm minimum
Grab breaking yield warp / fill	ASTM D751	2,450 / 2,450 N minimum
Trapezoid tear warp / fill	ASTM D4533	178 / 245 N minimum
Puncture	ASTM D4833	1,225 N minimum
Hydrostatic resistance	ASTM D751, Procedure A	5.52 MPa minimum
Cold bend	ASTM D2136	Pass at -34 °C
Weathering	ASTM G155, xenon	8,000 h minimum; no appreciable change, stiffening or coating cracks

Membrane tests do not establish boom working loads or seam strength. Accelerated weathering hours do not convert directly to years in service. The PVC and XR-5 tensile and tear figures use different or unspecified methods and are not direct comparisons.

For brine service, verify the complete assembly against liquid chemistry and temperature. Seaman's guide rates 25% salt water as having a minor to moderate effect after at least 30 days of room-temperature immersion; suitability is not universal.

Sources: Seaman 8130 XR-5 specification, Rev 1, November 2024; XR technical manual, SDS and chemical resistance guide (accessed 17 September 2026). XR-5® is a Seaman Corporation trade mark.

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