



Amiad Sigma Pro at 55 m³/h

Screen-filter selection using a stated water-quality and filtration-grade scenario.

Design flow	55 m ³ /h = 15.2778 L/s
Available pressure - assumption	3.0 bar
Filtration grade - assumption	130 microns
Water quality - assumption	Open surface / dam, silt and light algae
Supplier / family considered	Amiad / Sigma Pro only
Returned model	4-inch Sigma Pro
Screen area / rated capacity	6000 cm ² / 120 m ³ /h
Tool-adjusted capacity requirement	Approximately 65 m ³ /h
Calculated loading	54% of rated capacity after the tool's adjustment
Connection velocity	1.9 m/s through the 100 mm inlet
Application flush-pressure check	At least 2 bar; 3 bar entered

How to read the result

The live calculator returns OK for this scenario. Its capacity requirement includes a water-quality adjustment, so the reported 54% loading is not simply 55 divided by 120. Heavy algae or high organic loads require a different filtration assessment.

Amiad lists 120 m³/h at 130 microns in average water and 1.5 bar minimum pressure during cleaning for the 4-inch model. The application applies a 2 bar flush check. Confirm flushing flow, drainage and the selected controller with Amiad for the installation.

Source: Amiad Sigma Pro installation and operation manual

About this sample

Curated sample prepared from the live Tenselo FIL-008 result exported on 14 September 2026. The layout is prepared for demonstration; it is not the unedited in-app PDF. Numerical results and material warnings are retained. The live application labels this calculator Validated in its 19 July 2026 audit. This sample is not a separate engineering certification.

Preliminary design aid. Confirm current manufacturer data, actual site conditions and applicable standards with a suitably qualified professional before procurement or construction. Manufacturer names and logos identify products or data references; they do not imply endorsement.