ADCERAX
ADVANCED CERAMICS

ENGINEERING PRODUCT CATALOG

REVIEW EDITION | NOT RELEASED FOR CUSTOMER DISTRIBUTION

Silicon Carbide Flat Sheet Ceramic Membrane

Plate selection and module integration
for water and wastewater treatment



AT-SICP-01 plate with end fittings. The order drawing defines the supplied configuration.

For water-treatment OEMs, system integrators and plant engineering teams. Identify the supply unit, review the installation interfaces, and prepare a feed-specific quotation brief.

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ADCERAX | China-based advanced ceramics manufacturer
HUNAN ATCERA CO.,LTD

01 SUPPLY SCOPE

Choose the unit you are buying

A membrane plate, a connected unit and a module require different drawings, acceptance checks and quotations. State the required level before comparing dimensions or price.



AT-SICP-01 plate with end fittings. This photograph does not define a complete module or installation interface.

Purchase level	Define in the enquiry	Boundary to record
Membrane plate	Plate reference, quantity and mating-frame drawing.	Identify whether end fittings and sealing are included.
Framed or connected unit	Plate, frame, end fittings, seals and permeate collection.	Record each included item and the interface drawing.
42-plate module	Assembly envelope, plate arrangement and connection layout.	Confirm the module bill of materials and service access.
Tower or complete system	Module count, pumps, piping, valves, air supply and controls.	Define system responsibility separately from membrane supply.

Existing system replacement

Send the old part reference, equipment nameplate, overall and connection photographs, and the available drawing. Similar appearance, plate count or envelope dimensions do not establish interchangeability.

Ordering boundary AT-SICP-01 identifies the plate reference. Do not use the plate number alone to define a module, tower or complete treatment system.

02 PLATE REFERENCE

AT-SICP-01 plate dimensions

Use the listed dimensions for initial selection. The order drawing must identify the measurement datums, inclusion of end fittings, tolerances and mating details.

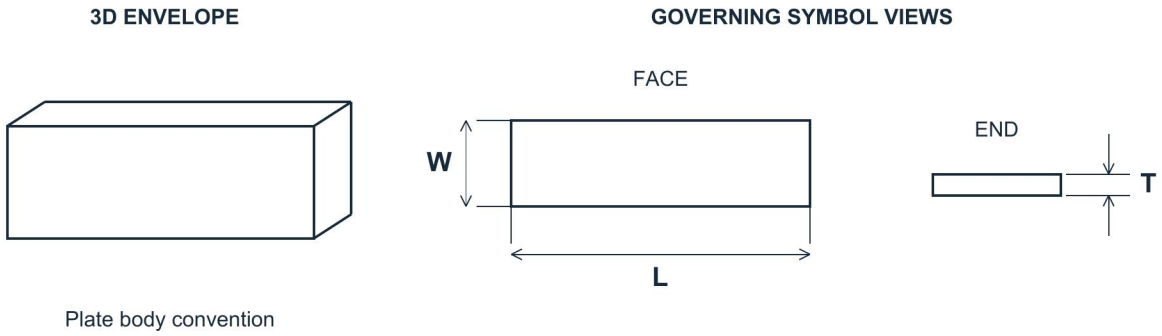


Plate body convention

Not to scale | Symbol convention only | Fittings and measurement datums require the order drawing

Envelope symbol key only. This is not a manufacturing drawing or a verified end-fitting profile.

Plate reference	L (mm)	W (mm)	T (mm)	Listed area (m²)
AT-SICP-01	600	145	6	0.177

Offer status: Engineering enquiry reference; supply configuration and availability are unconfirmed. Dimensions and listed area do not define tolerances, design flux or fit in an existing frame.

Complete the plate definition

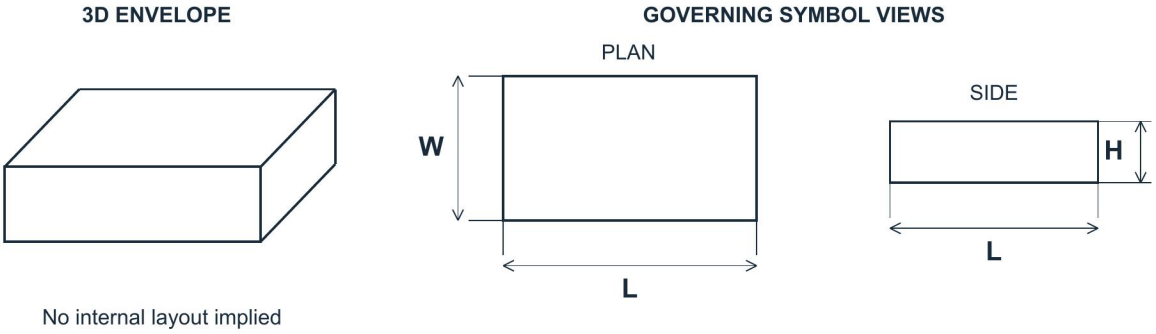
Drawing or specification item	Information required for quotation
Membrane and separation grade	Specify the required membrane construction, pore designation and measurement or retention test method.
Mating and end details	Provide the end-fitting drawing, collection connection, sealing surfaces, support areas and mounting orientation.
Dimensional acceptance	Define critical tolerances, flatness, edge condition, datum system and inspection method on the drawing.
Effective filtration area	Define active face count, end-sealing allowance and the effective area used for the project.
Required supply	State plate quantity, fittings or frame inclusion, trial requirement and repeat-order expectation.

Area boundary The listed area is a selection reference. Use the agreed effective area and feed-specific trial results for capacity design.

03 MODULE REFERENCE

Define the 42 plate module

The module is a separate assembly scope. Its envelope does not describe the plate arrangement, sealing system, collection passages, air distribution or connection positions.



Not to scale | Symbol convention only | Fittings and measurement datums require the order drawing

Module envelope convention only. No frame, internal plate layout, port, lifting point or mounting detail is represented.

Assembly reference	L (mm)	W (mm)	H (mm)	Plates	Listed area (m²)
42-plate module	750	715	160	42	7.5

Offer status: Engineering enquiry reference; supply configuration and availability are unconfirmed. Confirm effective area on the assembly drawing before selecting installed capacity. The plate reference does not define a separate module model or common-price scope.

Integration details that control the order

Assembly topic	Project definition required
Plate arrangement and maintenance	Plate spacing, supports, orientation and clearance for individual plate removal.
Permeate collection	Port positions, sizes, connection standard, seal definition and drain arrangement.
Cleaning and air distribution	Backwash and air-scouring routes, controls and compatibility of every wetted component.
Installation and lifting	Tank or skid layout, support loads, service space and approved lifting method.
Delivery boundary	List the plate set, frame, seals, collectors and other included or excluded components.

Replacement boundary A matching plate count or similar module size does not confirm fit or interchangeability with another supplier’s system.

04 PROCESS SELECTION

Build the feed and duty specification

Use the following routes to define an engineering evaluation. Project suitability and operating settings depend on the complete assembly, the actual feed and the agreed acceptance test.

MBR: membrane bioreactor. RO: reverse osmosis. NF: nanofiltration.

Project route	Key information to provide	Decision to establish
MBR and water reuse	Mixed-liquor or feed solids, oil, organics, target water quality and existing aeration.	Operating cycle, fouling control and integration with the collection system.
RO or NF pretreatment	Source-water variation, turbidity, particles and downstream feed requirements.	Pretreatment, target separation and the trial acceptance basis.
Industrial or oily wastewater	Feed composition, oil state, solids distribution, pH and temperature range.	Whole-assembly compatibility and a suitable cleaning assessment.
Mineral slurry or saline feed	Abrasive solids, salinity, oxidants, feed variability and upstream treatment.	Trial conditions, pretreatment needs and material compatibility.
Replacement or expansion	Old plate/module identity, drawings, operating records and failure history.	Mechanical fit, process duty and the actual replacement scope.

Separate membrane area from process capacity

Record net permeate demand, operating hours, cleaning downtime and standby requirement. Establish design flux using representative feed and a defined test duration; a pure-water result alone is not the wastewater design basis.

Flux J Permeate flow per effective membrane area, expressed in L/(m²·h).

TMP Transmembrane pressure: the pressure difference across the membrane. State the measurement points and the operating cycle.

Permeability Flux normalized by pressure difference, commonly expressed in L/(m²·h·bar). Keep it separate from flux.

Review the entire wet end

Provide the membrane, frame, seal, adhesive and piping requirements together with the intended cleaning agent, concentration, temperature and contact time. Material identity alone does not establish the operating limits of the assembled unit.

For regulated water uses or specific dissolved contaminants, identify the required treatment outcome, test method and product-specific compliance evidence in the enquiry.

05 ACCEPTANCE AND SUPPLY

Agree how the supplied unit will be accepted

Define the acceptance plan against the selected plate or assembly. The items below are requirements to agree for the order; they are not a claim that a particular test, packing method or certificate is included automatically.

Acceptance item	Define before order	Useful evidence to request
Identity and scope	Plate/module reference, drawing revision and included components.	Agreed item list and revision-controlled drawing.
Geometry and interfaces	Datums, tolerances, support faces, sealing and connection details.	Dimensional record for the agreed critical features.
Visible condition	Surface, edge, end-fitting and transport-damage criteria.	Agreed visual inspection record and acceptance criteria.
Integrity and leakage	Applicable unit, test medium, pressure, duration and acceptance limit.	Test report tied to the specified plate or assembly.
Separation and flow	Feed, temperature, TMP, active area, conditioning, duration and sampling.	Permeate quality and flow results under the agreed conditions.
Cleaning recovery	Foulant, cycle, reagent, concentration, temperature and contact time.	Recovery and integrity results using the agreed baseline.

Packing and receiving requirements

Specify support against bending, protection of filtration surfaces, edges and connection ends, and separation between pieces. Agree the carton or crate arrangement, transport orientation, marking and receiving inspection for the selected supply unit.

Repeat supply and change control

Retain the accepted drawing revision, membrane/assembly definition and test basis as the reorder reference. Recheck fit and performance requirements when the feed, cleaning chemistry, frame, seals or connection layout changes.

Commercial definition Quantity, sample plan, minimum order, availability, price, packing, destination and delivery schedule are confirmed in the quotation.

Before operation Use the instructions approved for the supplied assembly, including handling, start-up, cleaning, shutdown and wet or dry storage.

06 REQUEST FOR QUOTATION

Send a membrane engineering brief

Choose the reference or drawing route below and send the core information with your enquiry. A clear photograph or sketch can start the review when the original drawing is unavailable.

Route A Existing plate or module reference

Cite AT-SICP-01 for the plate, or request a 42-plate module. Supply scope and availability require drawing review and quotation confirmation. State the quantity and included fittings, frame, collectors and seals. Add the installation drawing and any deviations from the reference.

Route B Drawing defined or replacement project

Attach the drawing and revision, or the existing-part photographs and equipment identity. Mark the required envelope, connection and support dimensions, tolerances, installation direction and removal clearance. Describe the current failure or reason for replacement.

Core information for both routes

RFQ field	What to send
Project and supply	New system, replacement or expansion; plate, connected unit or module; quantity and trial/repeat demand.
Feed and water target	Water source or analysis, solids, oil/organics, salinity/oxidants and required permeate quality.
Flow and operation	Net flow, operating hours, proposed temperature/pH, TMP, cleaning cycle, downtime and standby.
Interfaces and materials	Drawing revision, dimensional/tolerance requirements, end fittings, frame, seals, adhesives and piping.
Verification and delivery	Trial and acceptance criteria, documentation, packing requirements, destination and target schedule.

Send the drawing or technical brief for engineering review and quotation.

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View the SiC flat sheet membrane product page

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