

Kwikloc™ Aquatic Ceiling Systems

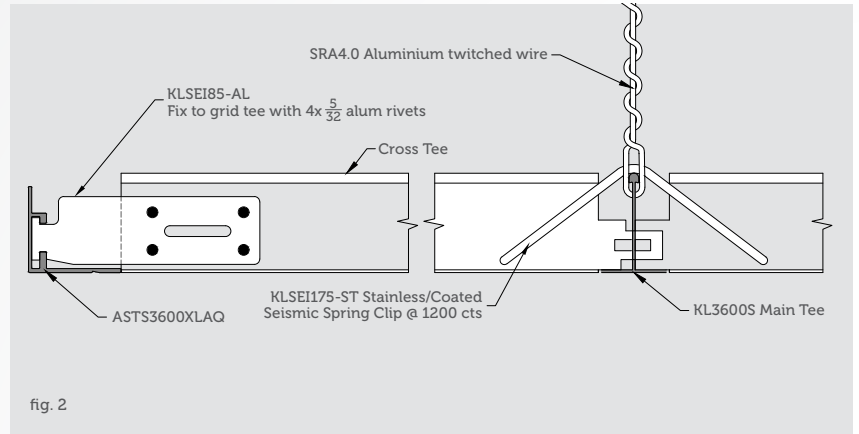
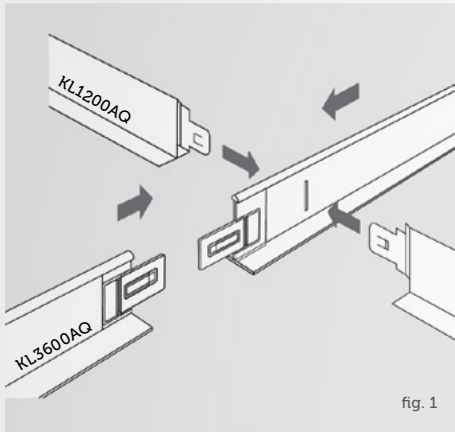
Kwikloc™ Aquatic is specifically designed and manufactured to withstand harsh corrosive environments, whilst maintaining its stunning design features and high quality throughout the duration of its lifetime.

The system can provide state of the art architectural designs, as well as highly durable strength. Kwikloc™ Aquatic's use of aluminium material coupled with its unique structural design elements, allows spanning of large areas with minimal bracing requirements.

Flat and even nesting of the tiles ensures a clean look throughout and hygienic sealing of the ceiling, minimising the risk of contamination of the space below.

Presbyterian Ladies' College, Melbourne

Product Overview



Kwikloc™ Aquatic Aluminium Ceiling Grid hosts unique features and exceptional advantages to facilitate high level aesthetics and anti-corrosion outcomes.

The Kwikloc™ Aquatic system provides a comprehensive and thorough approach as verified by independent corrosion consultants, with proven success over many years of installed systems.

Premium Non-Corrosive Finish

All aluminium sections are powdercoated white on an automatic line resulting in a consistent non-corrosive finish, particularly suited to buildings where quality and longevity is a priority.

Increased Flexibility

The main tee has been pre-punched at 300mm centres allowing for various ceiling designs, and the 1200mm cross tee comes centre punched (standard) for increased flexibility and efficiency of installation.

Above & Below Ceiling Corrosion Control

The Kwikloc™ Aquatic ceiling system takes particular care to ensure both above and below ceiling components can handle the harsh environments that exist in aquatic centre buildings. From double-grommated stainless-steel fasteners to aluminium wire suspension, including a twiched aluminium connection at the tee (fig. 2), unlike metal contact is diligently avoided in the system. Components include the VFA3 purlin bracket assembly and the SRA4.0 aluminium suspension wire. All the connections on the grid systems itself are formed in aluminium only with no galv/ metal components, using only hightensile aluminium tempers for the Kwikloc connection functions.

Versatile Wall Trim

Connection of tees to wall angles and/or perimeter trim is simplified with the unique ASTS3600XLAQ wall angle installation type. The KLSEI85-AL bracket is riveted to the tee section with 5/32 aluminium rivets. The ASTS3600XLAQ aluminium trim successfully provisions for secure fixing of this bracket at either grid to wall or end of floating run application.

Exceeds Standard Requirements

Suspension points exceed the requirements of AS/NZS 2785.

Precision manufacturing procedures also maintain uncompromising accuracy to ensure straight grid lines.



Factory-engineered components enable accurate installation and consistent ceiling geometry, supporting reliable service integration and long-term performance.



Bulkhead Construction Ease

The Kwikloc™ system incorporates an aluminium bulkhead section which increases rigidity and provides ease of installation, as well as maintaining full corrosion control for severe environments.

Meets Seismic Requirements

The Kwikloc™ Aquatic aluminium ceiling grid system has the structural capacity to meet the loading requirements of both AS 1170.4 and NZS 4203 with respect to the horizontal earthquake forces as required by both Australian and New Zealand standards. Specific design requirement standards for the Kwikloc™ system are available for the various areas and activity levels throughout Australia and New Zealand.

Architectural Aquatic Ceilings

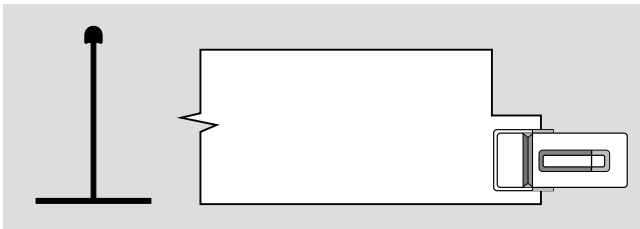
Studform's Kwikloc™ Aquatic ceiling system creates a distinctive feature ceiling design for 888 Collins Street, Melbourne.

Faced with the challenge to create a non-corrosive ceiling system that is both durable in pool environments and sleek in design, Studform worked with the architect and builder to create a stunning solution.

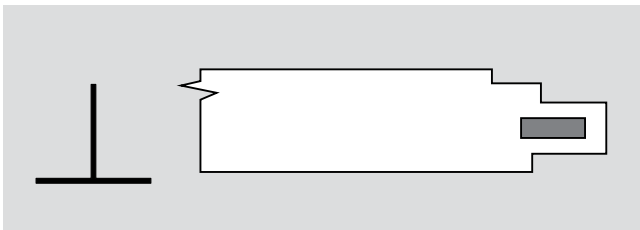
The end result was Kwikloc™ Aquatic black anodised grid coupled with matt and gloss finish black ceiling tiles to successfully realise the architect's unique vision and provide durable protection against the persistent aquatic environmental factors.

Product Profile

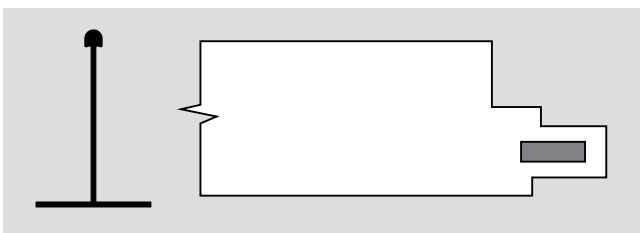
KWIKLOC™ Aquatic Ceiling System 24mm



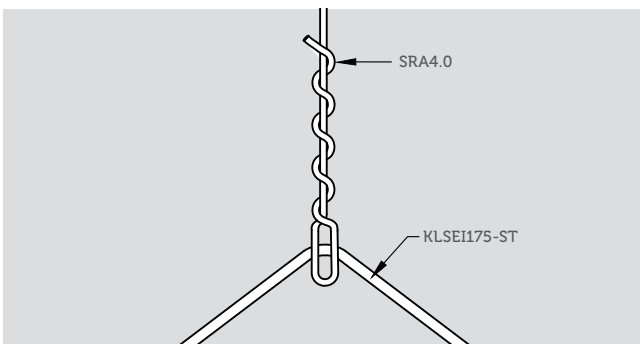
KL3600AQ Kwikloc™ Aquatic 3600 Main tee



KL600AQ Kwikloc™ Aquatic 600 Cross tee

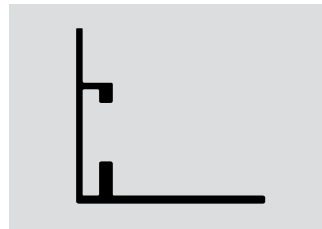


KL1200AQ Kwikloc™ Aquatic 1200 Cross tee

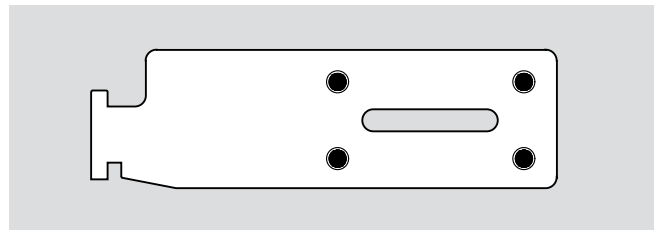


KLSEI175-ST KWIKLOC™ Coated Stainless Seismic Spring Clip

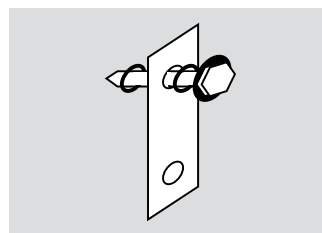
KWIKLOC™ Wall Angles and Brackets



ASTS3600XLAQ KWIKLOC™ Aquatic 32mm Wall Angle End Trim



KLSEI85-AL KWIKLOC™ Aluminium T Bar to Trim Bracket



VFA3 KWIKLOC™ Aluminium purlin clip and marine grade double grommeted stainless tek screw

Kwikloc™ aquatic architectural specifications

AQUATIC CENTRE / CORROSIVE ENVIRONMENT INSTALLATIONS

General

Provide a Kwikloc™ Aquatic aluminium exposed grid system as manufactured by Studform.

Material

The exposed aluminium grid shall be Kwikloc™ Aquatic 24mm powdercoated satin white as manufactured by Studform. The Kwikloc™ grid shall consist of high grade aluminium. All materials shall meet the requirements of AS2785 - Suspended Ceilings Design and Installation.

Installation

The main tee (KL3600AQ) shall be spaced at 600mm or 1200mm centres supported from the structure by a 4mm aluminium wire at 1200mm max. centres and no more than 600mm from the perimeter trim where trim secured at perimeter and no more than 300mm for end of run trim type and no more than 150mm from any main tee join.

The cross tees shall be positively locked together through the main tee slots (at 300mm) to form the required module. All 1200mm cross tees shall be centre punched at 600mm to facilitate light fittings and/or mechanical services and any alterations thereof.

In General

Hangers, main tees and spacer tees shall be spaced so as not to exceed the designed ceiling load or as may otherwise be required to prevent deflection in excess of 1/360 of the span of the main tee or spacer. Extra hangers are to be provided for light fittings, mechanical services etc, that are supported by the grid system where the point load exceeds 7kg. Down bracing shall be incorporated in external installations and areas adjacent to openings prone to uplift caused by external wind forces. Hold down clips shall be used in braced areas or as required.

Grid Module

The grid module shall be 600mm x 600mm, 1200mm x 600mm, 1200mm x 300mm or other.

Perimeter Detail

Perimeter trim shall be Kwikloc™ (ASLS3600XLAQ - Shadowline or ASTS3600XLAQ - Standard) angle securely fixed. Seismic Bracing Perimeter bracing for free floating ends to ceiling runs shall be provided in accordance with Studform standard aquatic installation planning set documents. Additionally, it is recommended Studform provide specific seismic brace point markups on reflected ceiling plans for projects.

Hanger Installation

All suspension points of the grid system shall consist of 4mm aluminium wire, securely twitched to main tees at no greater than 1200mm centres and suspended from the roof structure with a VFA3 Aluminium purlin bracket assembly as supplied by Studform.

Where fixed to masonry soffits above the A95-AL bracket shall be used with masonry fixings to suit. Fixings shall be sealed with a coating of neutral cure silicone once installed.

Integrated Lighting Ready

Kwikloc™ Aquatic ceilings are fully compatible with the Kwiklux® Aquatic LED lighting system, delivering seamless integration, corrosion-resistant performance, and uniform illumination for demanding aquatic environments.



Supporting Studform Systems:

KWIKLOC™ Aquatic ceilings compliment Studform's broader range of product solutions available for aquatic and commercial environments:

- KWIKLOC™ Seismic Ceiling System
- Rockfon CleanSpace Pure RH100 / NRC 0.95
- KWIKLUX Aquatic Integrated LED Lighting System
- KWIKTILE Acoustic Ceiling Tiles
- KORPORATE Aluminium partition suite
- Commercial Doors
- RW Acoustic Doors
- High performance commercial fire doors



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