

ARCHI-LINE BATTENS
TECHNICAL DETAILS V1.3

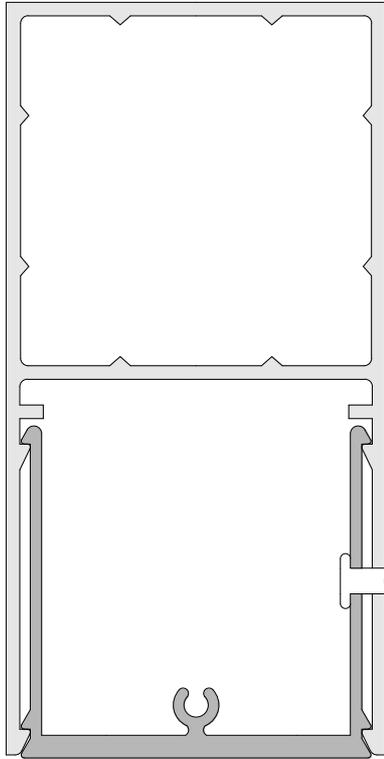


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PSP LIMITED_ARCHI-LINE_INDEX

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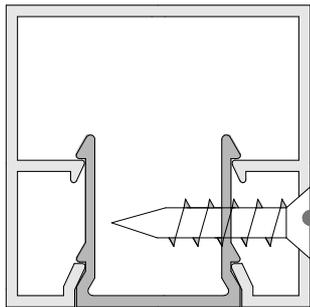
SHEET NUMBER	SHEET TITLE
ALB01	BATTEN MECHANICAL FIXING GUIDE
ALB02A	BRACKET FIXING GUIDE
ALB02B	SUBFRAME FIXING GUIDE
DIRECT FIX	
ALB03	TIMBER
ALB03B	TIMBER - THROUGH CLADDING
ALB04	ALUMINIUM
ALB05	LIGHT GAUGE STEEL
ALB05B	LIGHT GAUGE STEEL - THROUGH CLADDING
ALB06	STRUCTURAL STEEL
ALB07	CONCRETE OR MASONRY
SUBFRAME FIX	
ALB08	TIMBER
ALB08B	TIMBER - THROUGH CLADDING
ALB09	ALUMINIUM
ALB10	LIGHT GAUGE STEEL
ALB10B	LIGHT GAUGE STEEL - THROUGH CLADDING
ALB11	STRUCTURAL STEEL
ALB12	CONCRETE OR MASONRY



1 x No. 4 (3.2 mm Ø) Aluminium Pop Rivets.

- Rivets to be non-countersunk dome head.
- Install fixing central through Male Bracket as shown.
- 30mm minimum distance to end of aluminium batten.

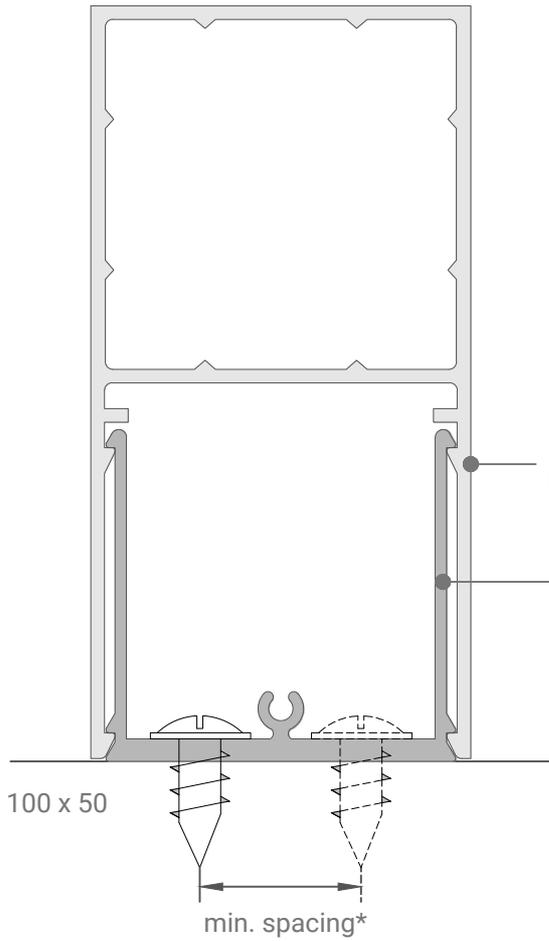
OR



1 x 12G Stainless Steel CSK Screw

- Length to fully penetrate Male Bracket part (with 2 full threads).
- Install fixing central through Male Bracket as shown.
- 30mm minimum distance to end of aluminium batten.

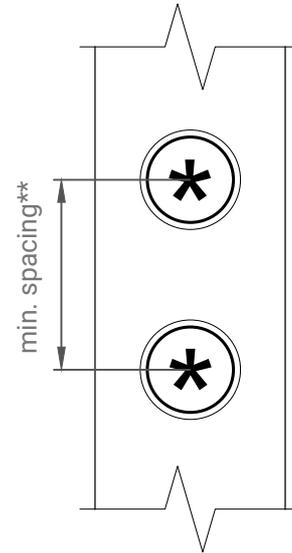
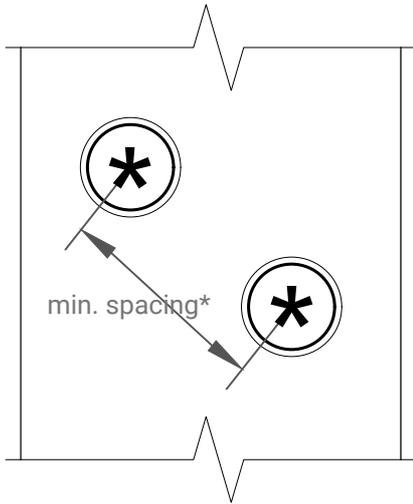
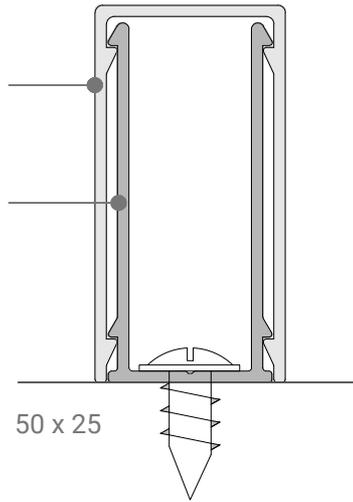
50MM+ SUITE



GENERAL FIXING NOTES:

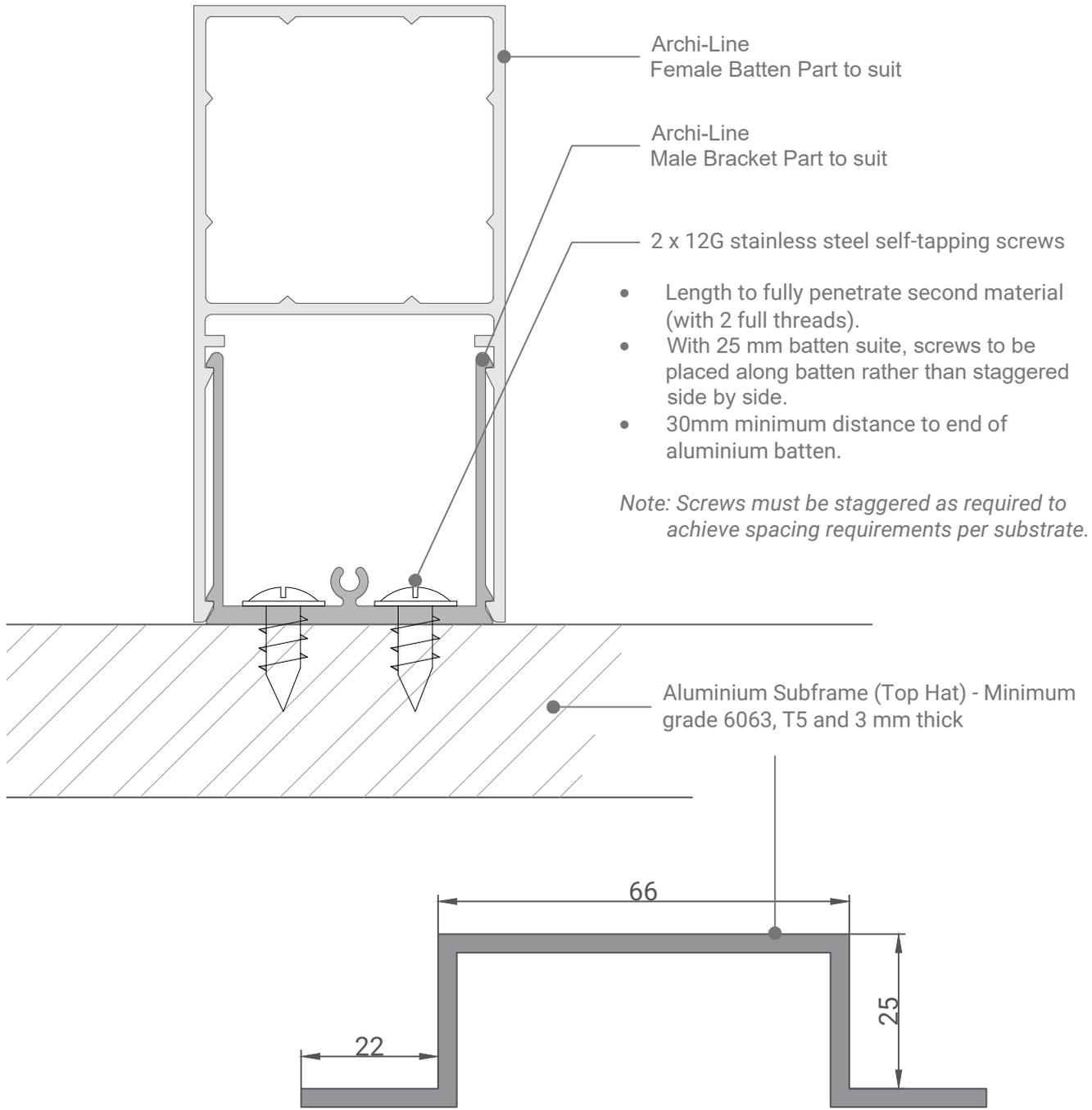
- Screw length to fully penetrate second material (with 2 full threads).
- Fixed minimum 30mm distance from the end of aluminium battens.

25MM SUITE

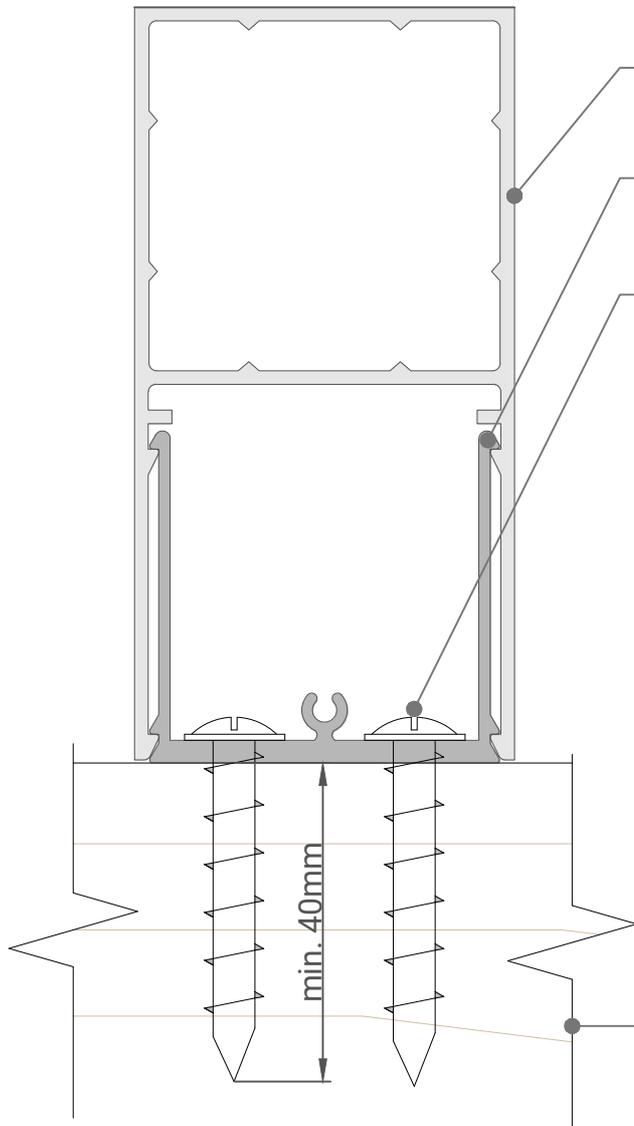


*Screws must be staggered as required to achieve min. spacing requirements per substrate. See relevant details.

**With 25 mm batten suite, screws to be placed along batten



Note: See ALB08 - ALB12 for cross section detail



Archi-Line
Female Batten Part to suit

Archi-Line
Male Bracket Part to suit

2 x 12G stainless steel T17 screws

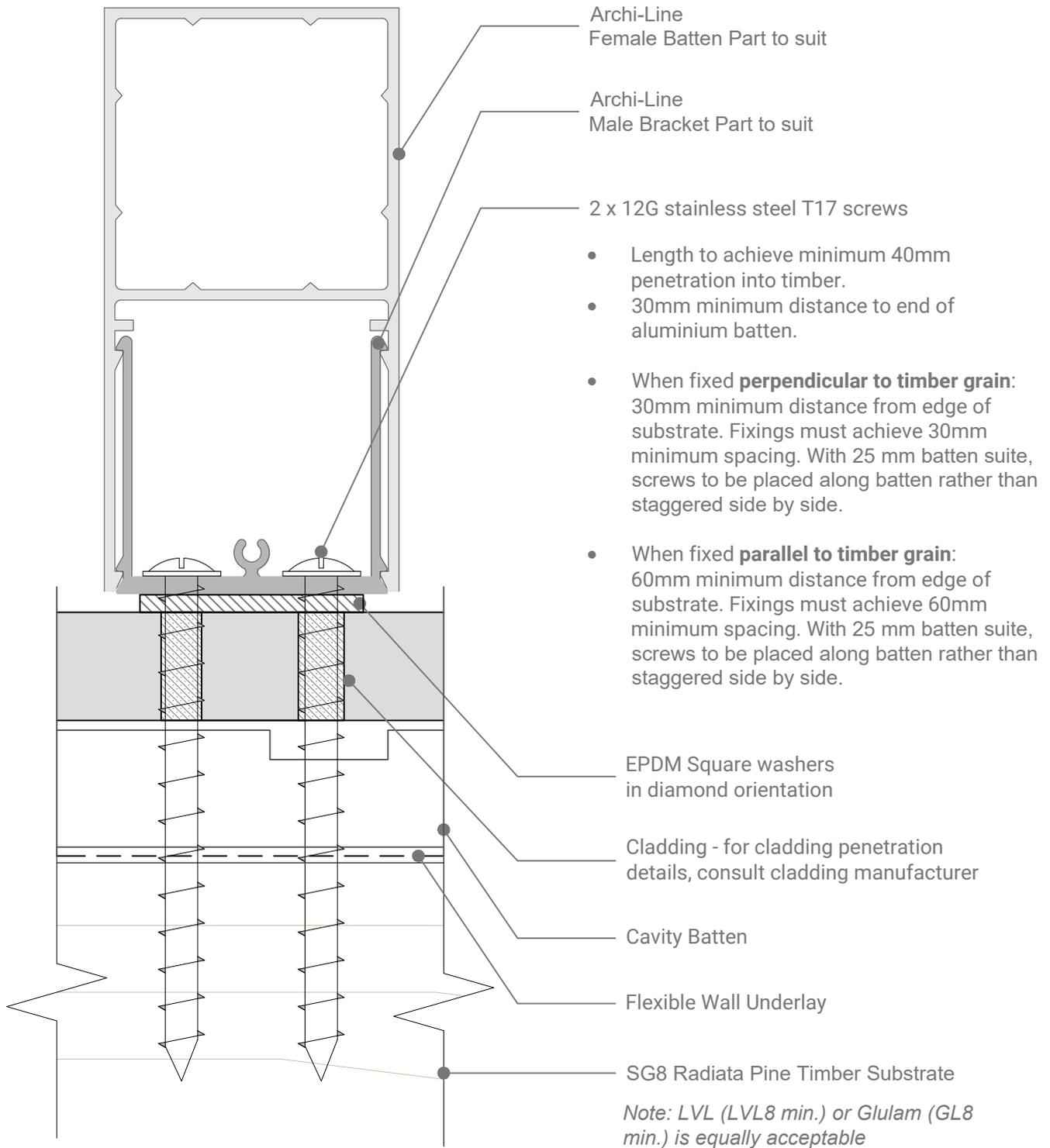
- Length to achieve minimum 40mm penetration into timber.
- 30mm minimum distance to end of aluminium batten.
- When fixed **perpendicular to timber grain**: 30mm minimum distance from edge of substrate. Fixings must achieve 30mm minimum spacing. With 25 mm batten suite, screws to be placed along batten rather than staggered side by side.
- When fixed **parallel to timber grain**: 60mm minimum distance from edge of substrate. Fixings must achieve 60mm minimum spacing. With 25 mm batten suite, screws to be placed along batten rather than staggered side by side.

SG8 Radiata Pine Timber Substrate

Note: LVL (LVL 8 min.) or Glulam (GL8 min.) is equally acceptable

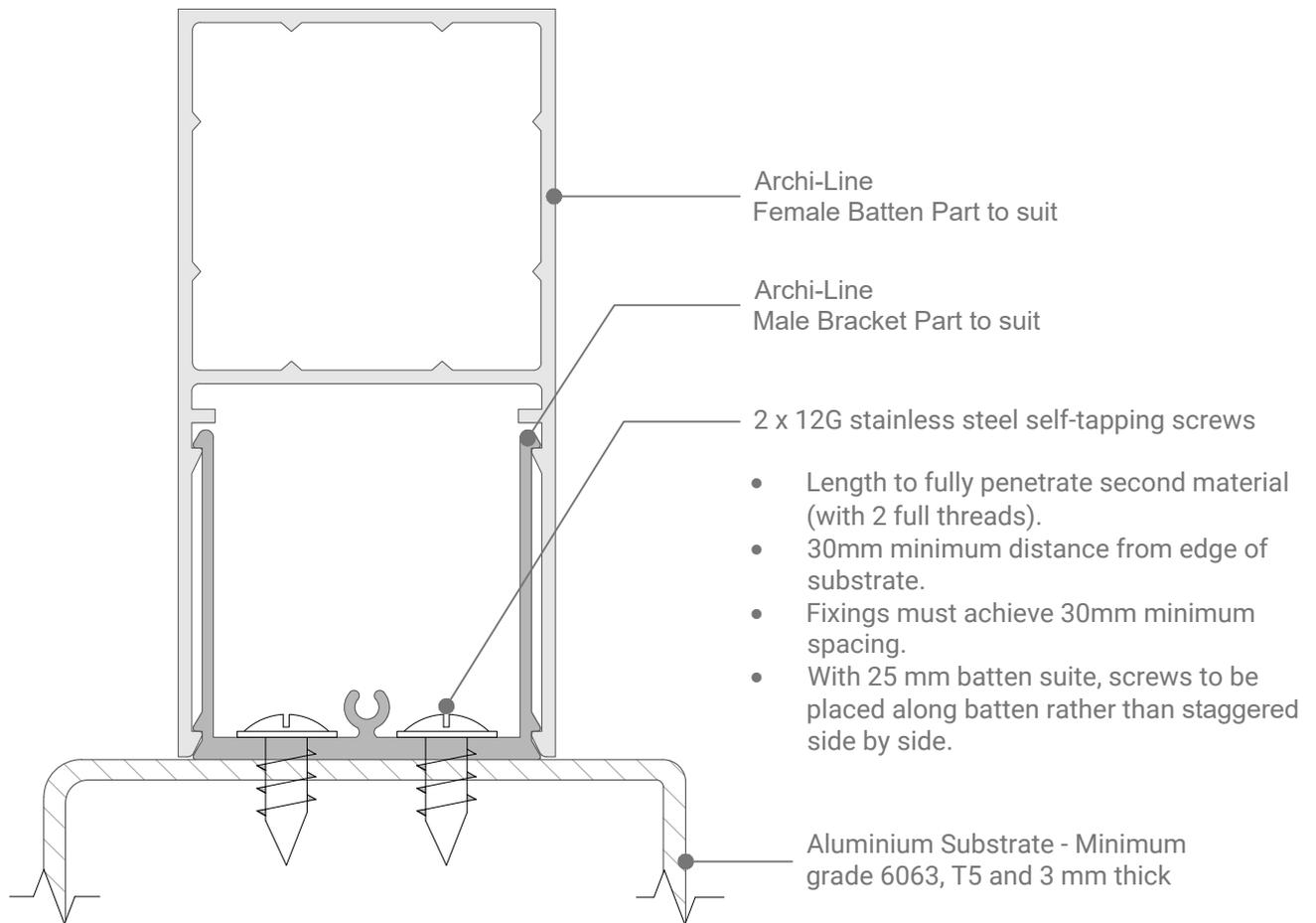
Note: If fixing screws to light timber framing studs (e.g. 90 x 45 @ 600 c/c), reduced edge distance may be used (22.5 mm) contractor to ensure screws are fixed central on each stud.

Ensure appropriate isolation measures are taken between dissimilar metals.
In sea spray zone use Duralac or similar in screw holes.

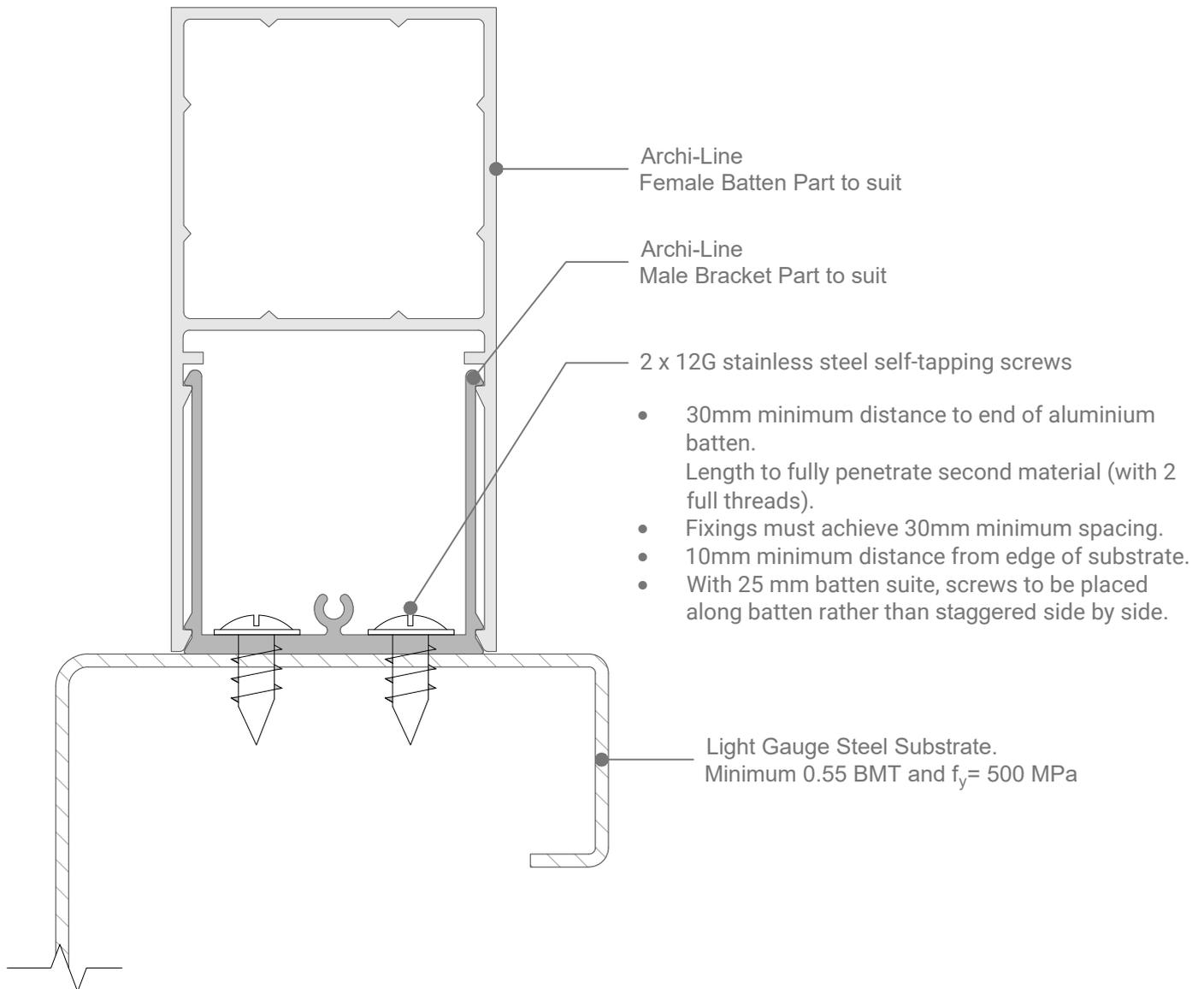


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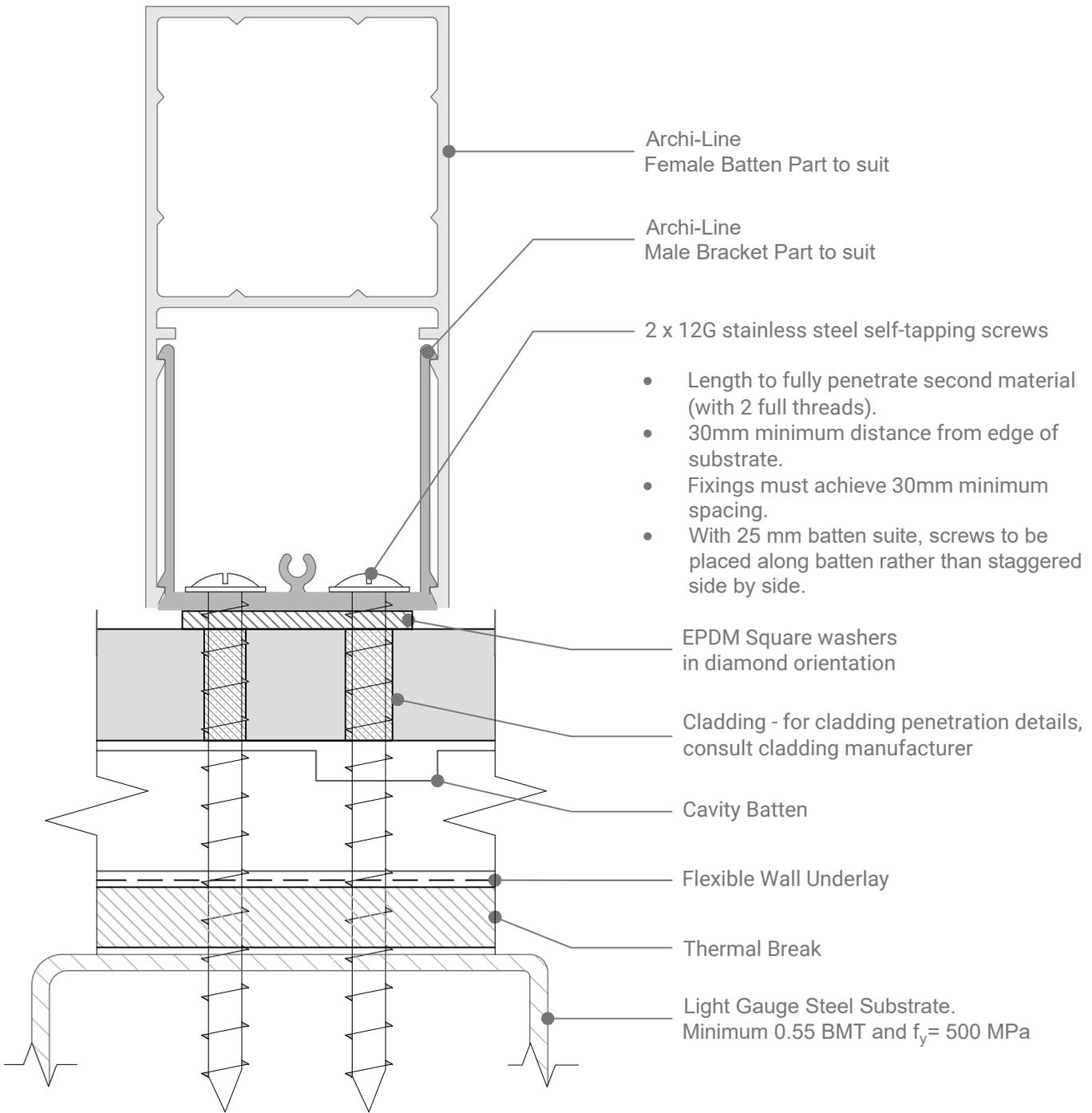
This shows a typical cladding detail. Always consult the cladding manufacturer for specific recommendations and ensure compliance with their product specifications and installation guidelines.



Ensure appropriate isolation measures are taken between dissimilar metals.
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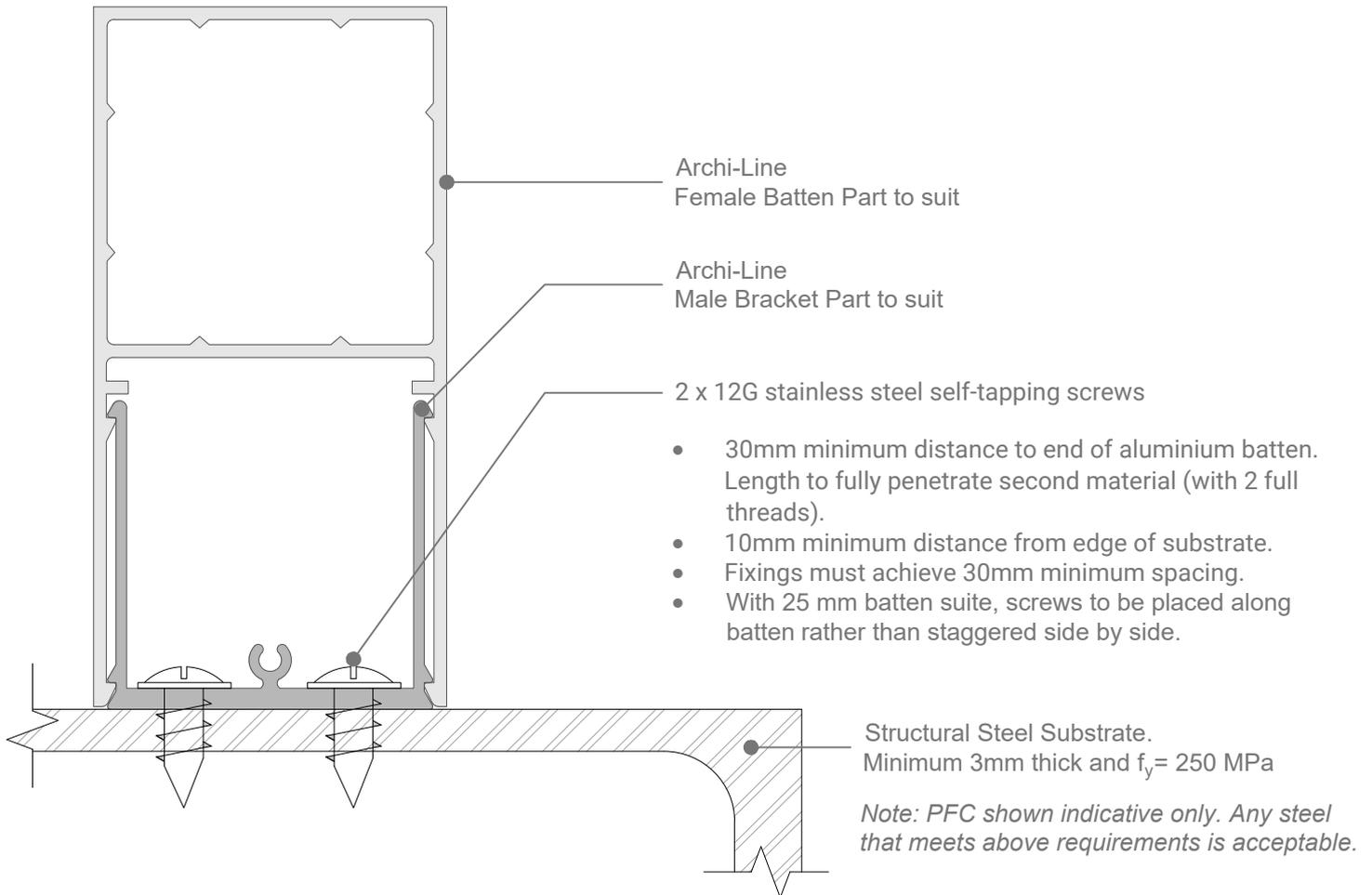


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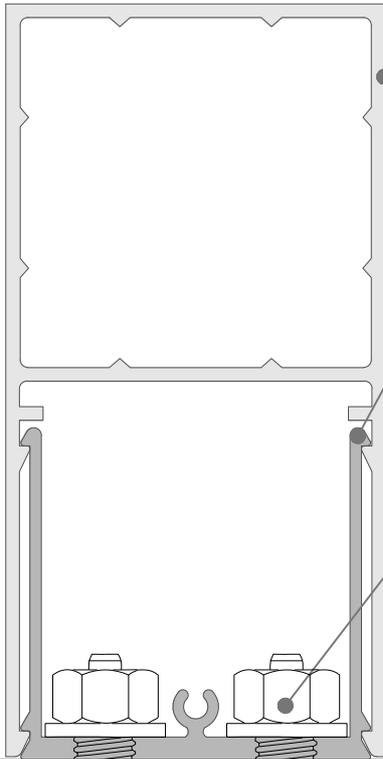


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In sea spray zone use Duralac or similar in screw holes.



Archi-Line
Female Batten Part to suit

Archi-Line
Male Bracket Part to suit

1 x Ramset Trubolt Xtrem M8 with min. 50mm
embedment into concrete/grout fill

OR

1 x Hilti HUS4-H with min. 50mm embedment
into concrete/grout fill

- Screws to be placed at 60mm minimum spacing along batten.
- If fixing into masonry, masonry shell portion shall be ignored and embedment shall be directly into concrete.
- 60mm minimum distance from edge of substrate.
- With 25 mm batten suite, screws to be placed along batten rather than staggered side by side.

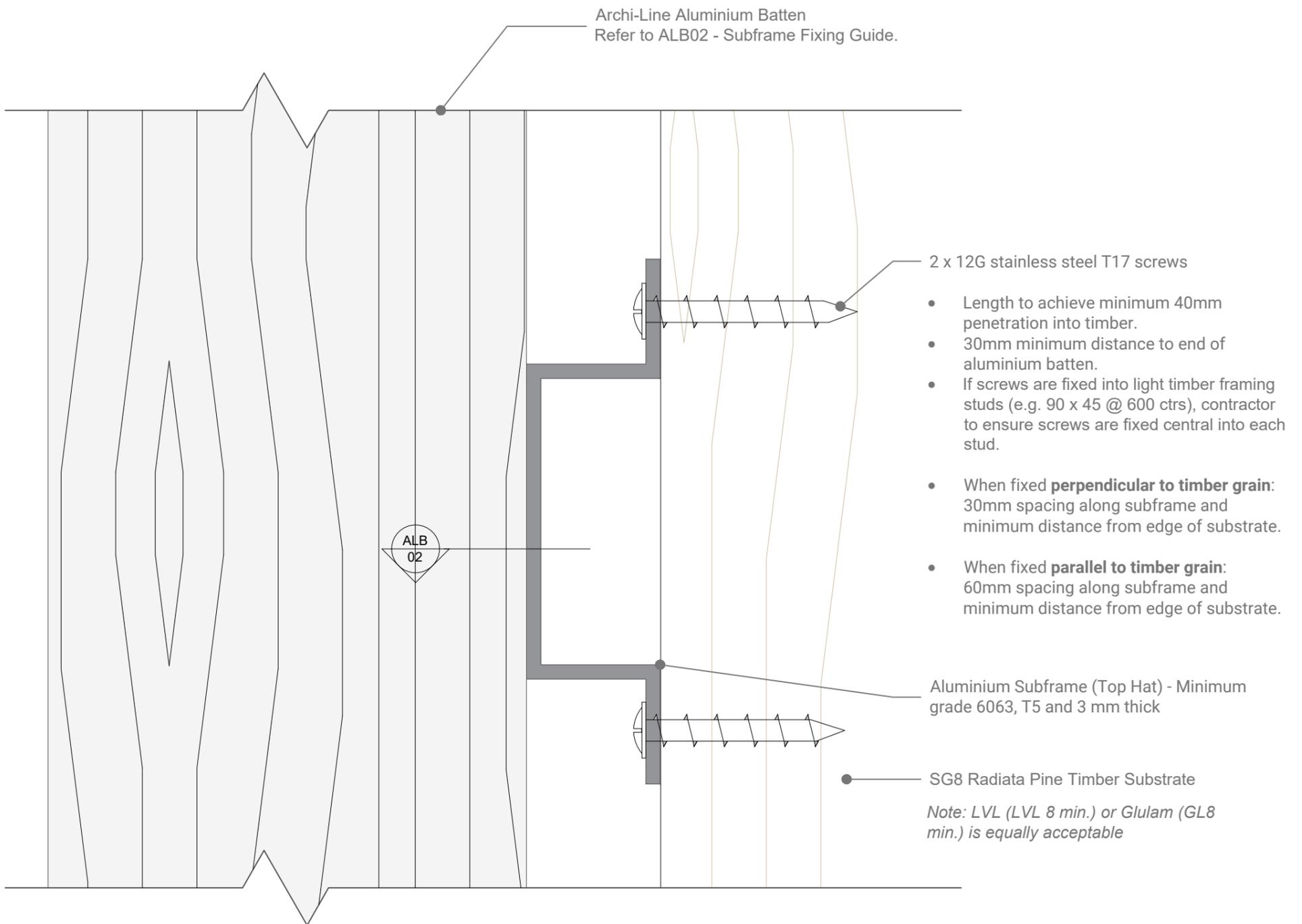
Concrete - Minimum 20 MPa,
100 mm thick

OR

Masonry Block - Minimum 20 MPa
Grout Fill, 15 series block

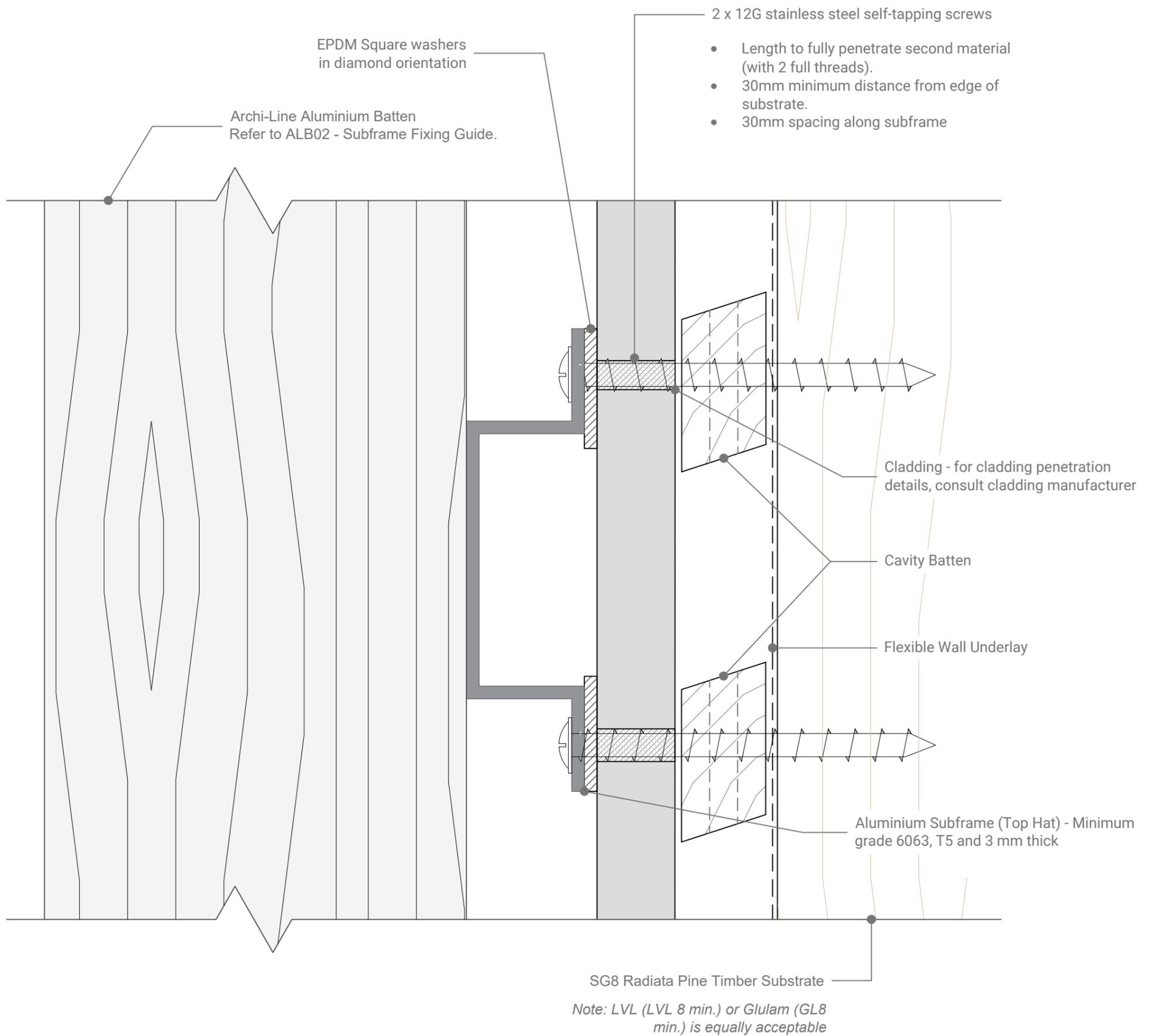
50 mm embedment min.

Ensure appropriate
isolation measures
are taken between
dissimilar metals.
In sea spray zone
use Duralac or
similar in screw
holes.



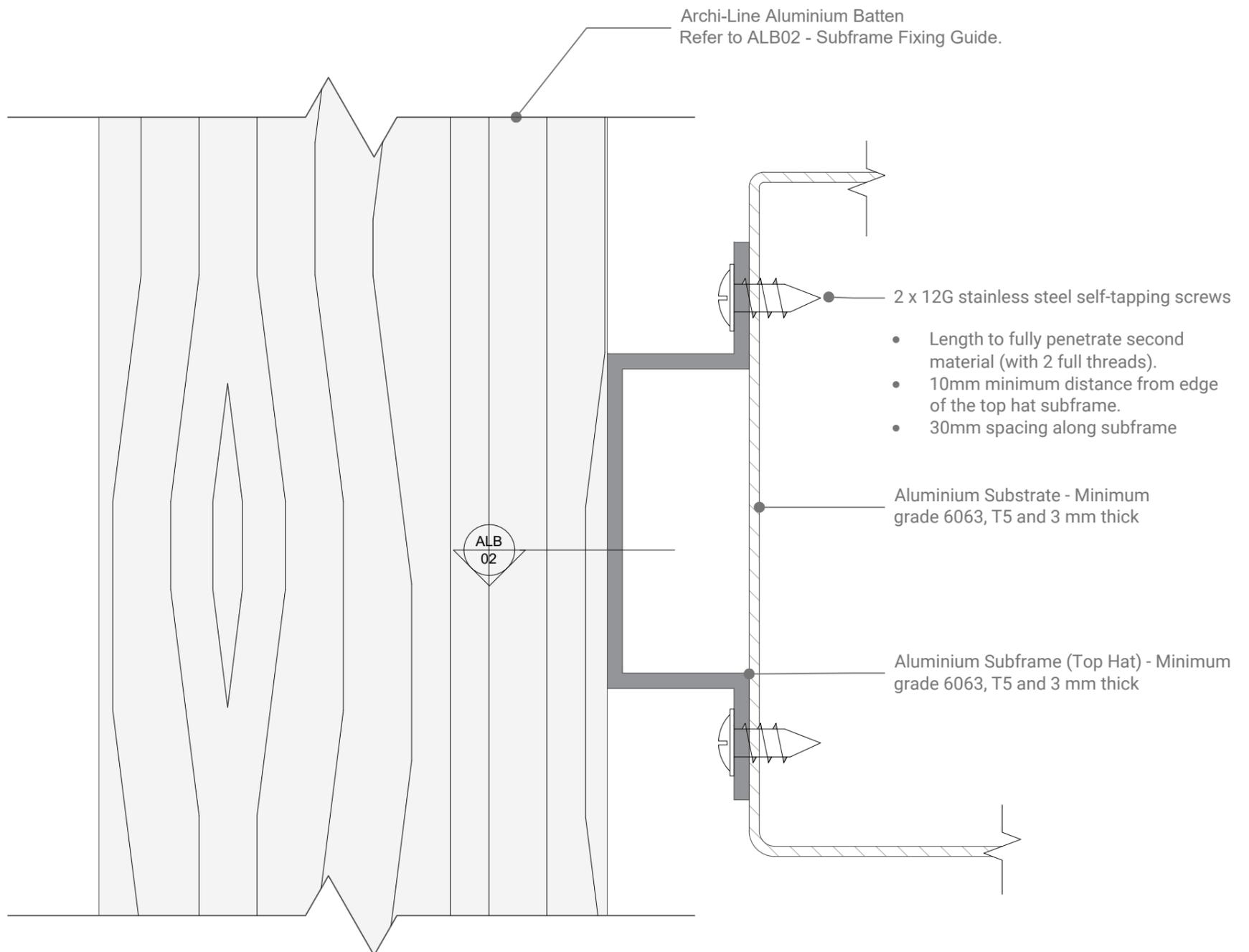
Note: If fixing screws to light timber framing studs (e.g. 90 x 45 @ 600 c/c), reduced edge distance may be used (22.5 mm) contractor to ensure screws are fixed central on each stud.

Ensure appropriate isolation measures are taken between dissimilar metals. In sea spray zone use Duralac or similar in screw holes.

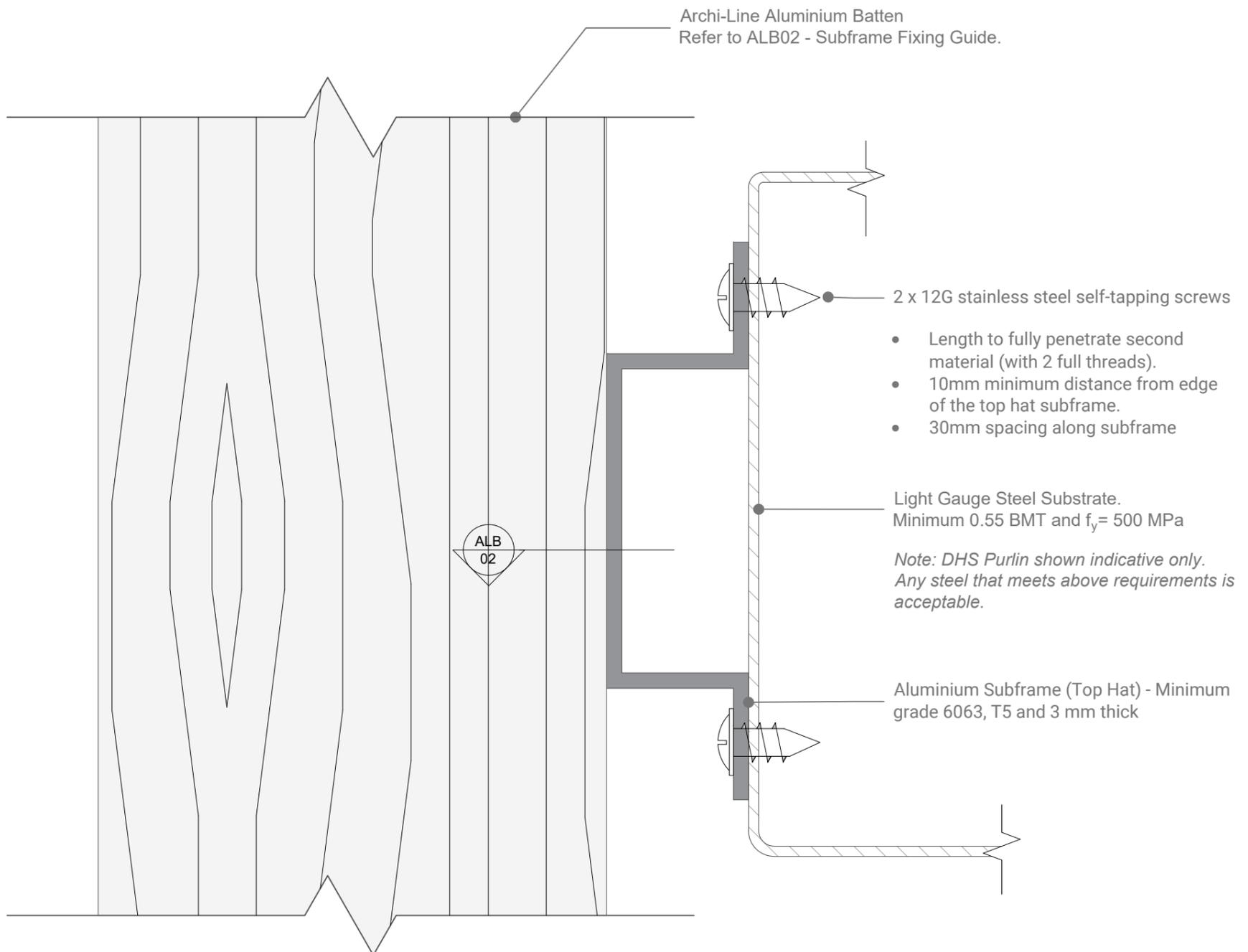


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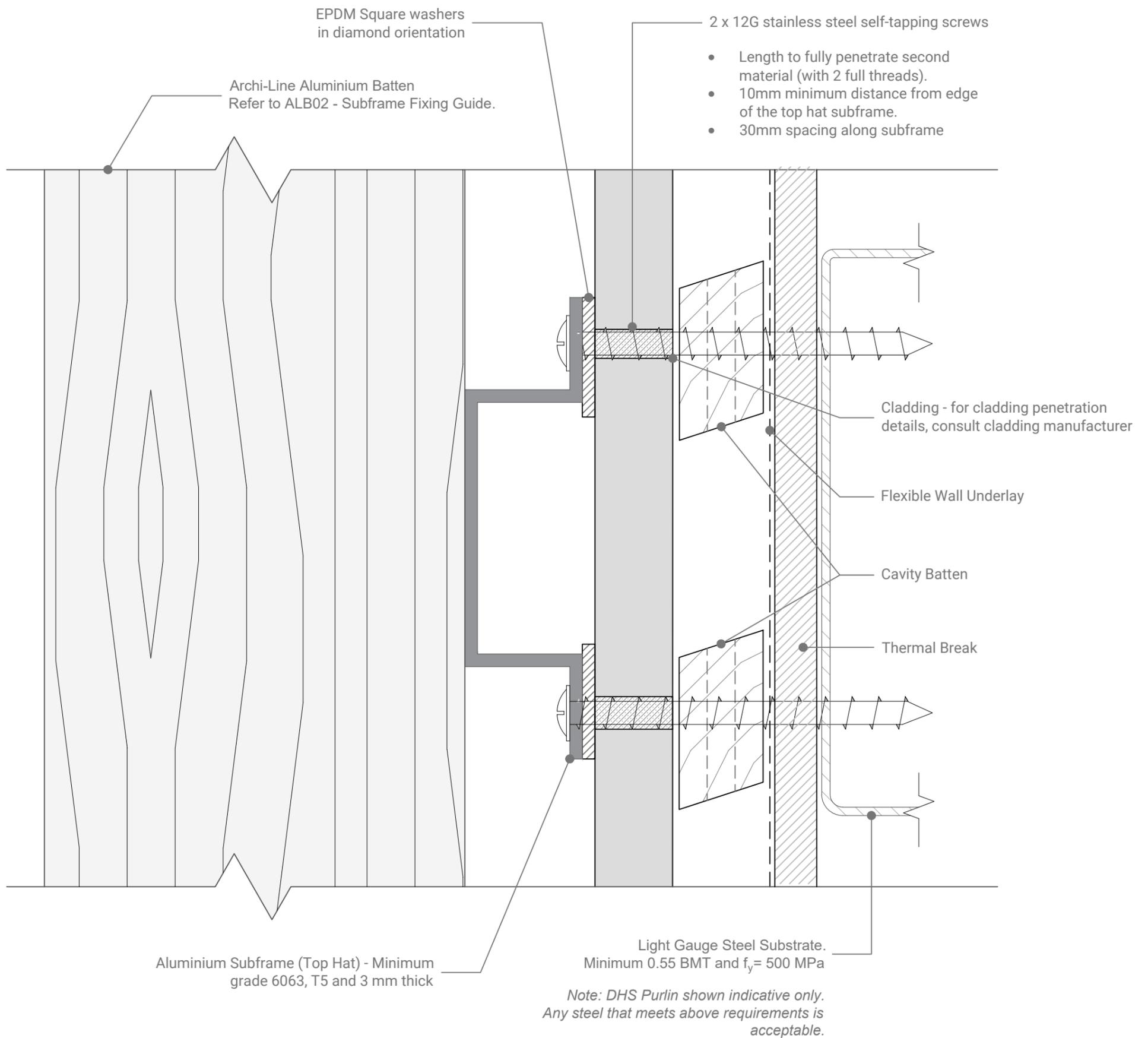
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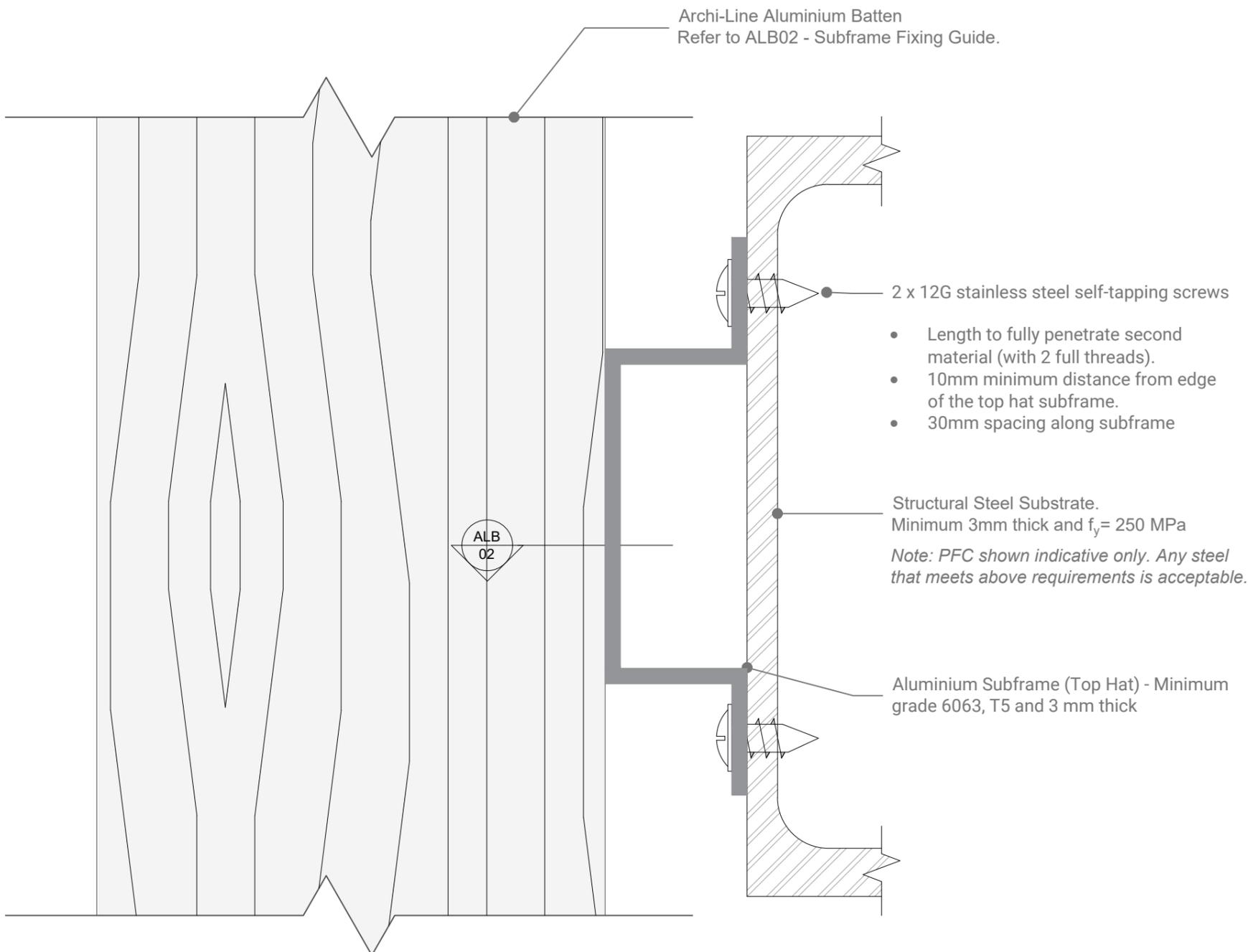


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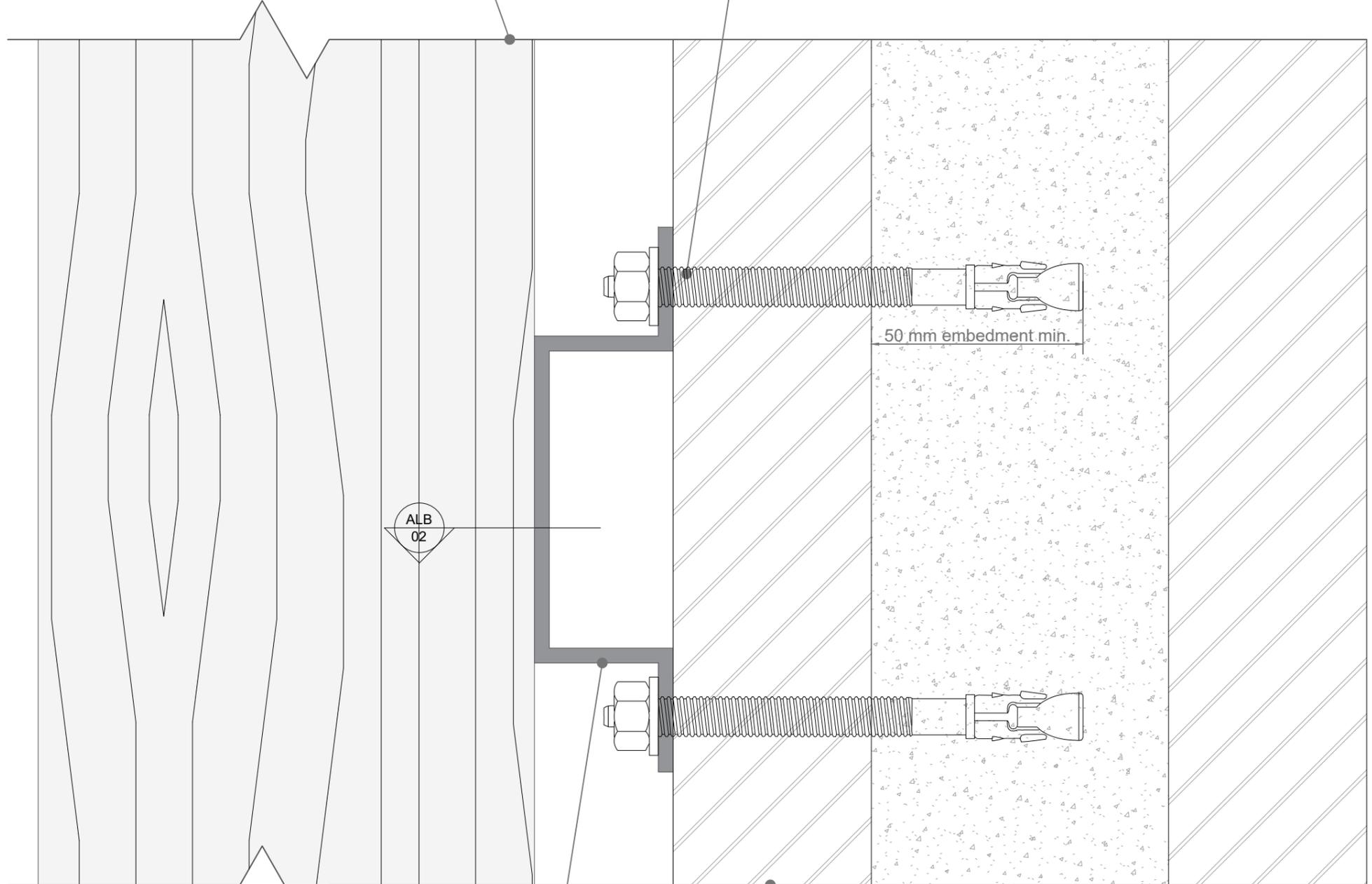
Archi-Line Aluminium Batten
Refer to ALB02 - Subframe Fixing Guide.

2 x Ramset Trubolt Xtrem M8 with min. 50mm
embedment into concrete/grout fill

OR

2 x Hilti HUS4-H with min. 50mm embedment
into concrete/grout fill

- Screws to be placed at 60mm minimum spacing along batten.
- If fixing into masonry, masonry shell portion shall be ignored and embedment shall be directly into concrete.
- 60mm minimum distance from edge of substrate.
- 60mm spacing along subframe



50 mm embedment min.

Aluminium Subframe (Top Hat) - Minimum
grade 6063, T5 and 3 mm thick

Concrete - Minimum 20 MPa,
100 mm thick

OR

Masonry Block - Minimum 20
MPa Grout Fill, 15 series block

Ensure appropriate isolation measures are taken between dissimilar metals.
In sea spray zone use Duralac or similar in screw holes.