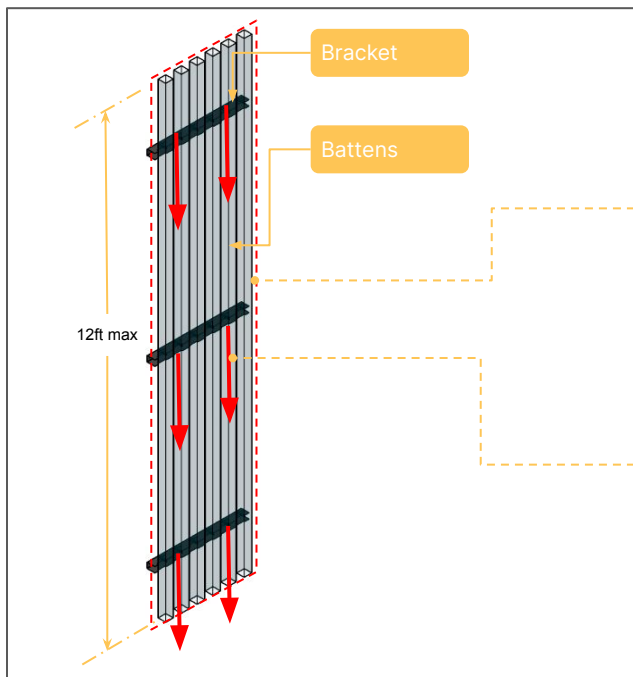# AL13 Batten System Weights Data Sheet

Batten Size: All (1×1, 1×2, 1×4, 1×5, 2×2, 2×4, 2×6)
Batten Gap: As per configuration; see tables
Installation: Generic Wall/Ceiling
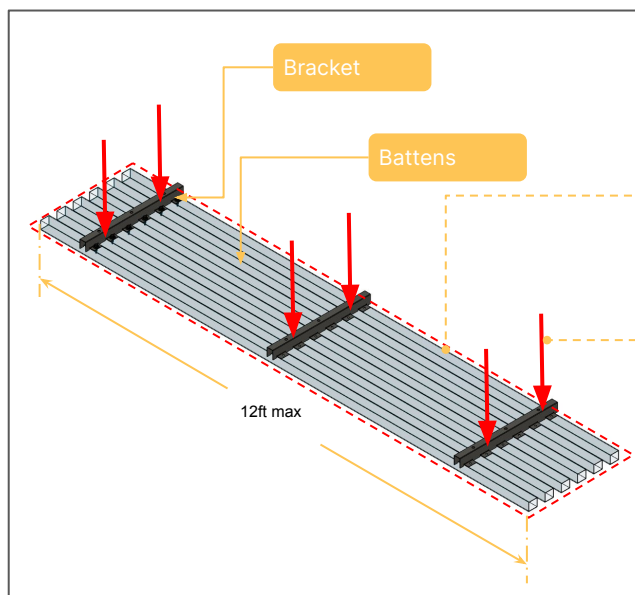
Batten Panel Assembly: Typical Wall Install

The weight of a batten panel is the sum of all the batten system components required per the design configuration, assembled together with area based on a maximum batten length of 12ft and the bracket width.

The weight of the batten panel is transferred to the substrate through the mounting screws that anchor the batten system onto the substrate.

In a wall installation, static loading is mostly in shear, as indicated by the arrows.

Batten Panel Assembly: Typical Ceiling Install

The weight of a batten panel is the sum of all the batten system components required per the design configuration, assembled together with area based on a maximum batten length of 12ft and the bracket width.

The weight of the batten panel is transferred to the substrate through the mounting screws that anchor the batten system onto the substrate.

In a ceiling installation, static loading is mostly in tension, as indicated by the arrows.
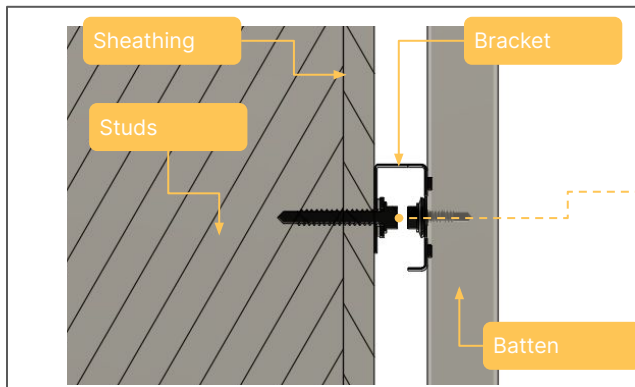
AL13 Batten System Weights Data Sheet

Batten Size: All (1×1, 1×2, 1×4, 1×5, 2×2, 2×4, 2×6)

Batten Gap: As per configuration; see tables

Installation: Generic Wall/Ceiling

Wood Frame with OSB/Plywood Sheathing

Sheathing

Studs

Bracket

Batten

F1.5B Screw

Use AL13 F1.5B screws for installing on wood substrates. Minimum sheathing thickness of 7/16in.

Z-Girt/Furring Bar Installation

Girt

Studs

Bracket

Batten
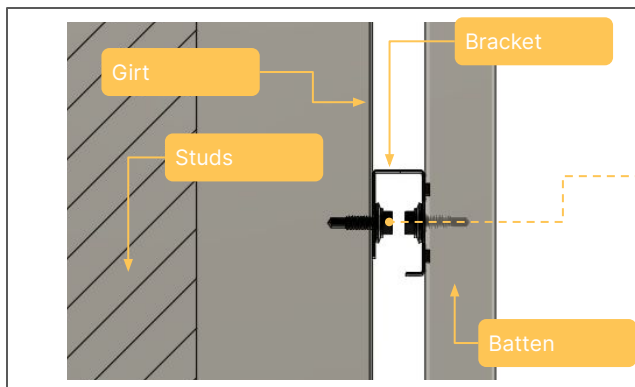
F0.75B Screw

Use AL13 F0.75B screws for installing on girt/furring bars. Minimum 18ga thickness for galvanized steel (0.050in for other steel alloys).

Concrete Installation

Concrete

Bracket
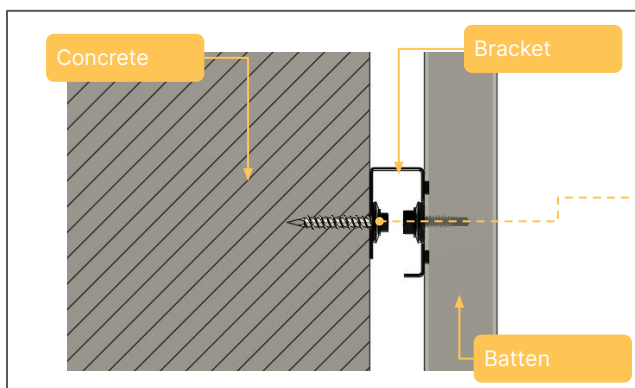
Batten

F1.25B Screw

Use AL13 F1.25B screws for installing directly into concrete. Minimum 3000psi concrete.

For large areas installed over concrete, installing a furring bar or Z-girt for batten attachment is recommended due to time consuming nature of attaching frame components directly to concrete.

AL13 Batten System Weights Data Sheet

Batten Size: All (1×1, 1×2, 1×4, 1×5, 2×2, 2×4, 2×6)
Batten Gap: As per configuration; see tables
**Installation:** Generic Wall/Ceiling

Batten Panel Weights Using 1in Wide Battens:

Weights of a standard batten panel assembled using different **1in** wide sections combined with various gap sizes/brackets are in the table below. Choose the appropriate values for your particular installation and apply safety factors as required.

Batten Components		Batten Section	Gap	Panel Area	Total Panel Weight	Weight/ Area[1]	Weight/ Bracket[2]	Weight/ Screw[3]
Batten Type	Bracket Type	in x in	in	sqft	lb	lb/sqft	lb	lb
T11	B11	1×1	1	12	21.2	1.8	7.1	3.5
T12		1×2	1	12	31.8	2.6	10.6	5.3
T14		1×4	1	12	53.0	4.4	17.7	8.8
T15		1×5	1	12	78.8	6.6	26.3	13.1
T11	W1H	1×1	9/16	12.5	27.6	2.2	9.2	4.6
T12		1×2	9/16	12.5	41.7	3.3	13.9	7.0
T14		1×4	9/16	12.5	70.1	5.6	23.4	11.7
T15		1×5	9/16	12.5	104.4	8.4	34.8	17.4
T11	W11	1×1	1	12	20.9	1.7	7.0	3.5
T12		1×2	1	12	31.5	2.6	10.5	5.3
T14		1×4	1	12	52.7	4.4	17.6	8.8
T15		1×5	1	12	78.5	6.5	26.2	13.1

[1]Weight per Area is the total weight of batten system components assembled into a panel with area based on a maximum batten length of 12ft and the bracket width.

[2]Weight per Bracket is the total weight of the batten panel assembly distributed over 3 brackets over a 12ft overall batten panel length that is applied onto the substrate. Direction of loading is dependent on the application.

[3]Weight per Screw is the total weight of the batten panel assembly distributed across a minimum of 2 mounting screws through each bracket into the substrate. Direction of loading is dependent on the application.

AL13 Batten System Weights Data Sheet

Batten Size: All (1×1, 1×2, 1×4, 1×5, 2×2, 2×4, 2×6)
Batten Gap: As per configuration; see tables
Installation: Generic Wall/Ceiling

Batten Panel Weights Using 2in Wide Battens:

Weights of a standard batten panel assembled using different **2in** wide sections combined with various gap sizes/brackets are in the table below. Choose the appropriate values for your particular installation and apply safety factors as required.

Batten Components		Batten Section	Gap	Panel Area	Total Panel Weight	Weight/ Area[1]	Weight/ Bracket[2]	Weight/ Screw[3]
Batten Type	+ Bracket Type	in x in	in	sqft	lb	lb/sqft	lb	lb
T22		2×2	2	12	21.9	1.8	7.3	3.7
T24	B22	2×4	2	12	32.5	2.7	10.9	5.4
T26		2×6	2	12	53.6	4.5	17.9	8.9
T22		2×2	2	12	21.6	1.8	7.2	3.6
T24	W22	2×4	2	12	32.2	2.7	10.7	5.4
T26		2×6	2	12	53.2	4.4	17.7	8.9
T22		2×2	4	12	14.6	1.2	4.9	2.4
T24	W24	2×4	4	12	21.7	1.8	7.2	3.6
T26		2×6	4	12	35.7	3.0	11.9	6.0
T22		2×2	6	16	14.9	0.9	5.0	2.5
T24	W26	2×4	6	16	22.0	1.4	7.3	3.7
T26		2×6	6	16	36.0	2.2	12.0	6.0

[1]Weight per Area is the total weight of batten system components assembled into a panel with area based on a maximum batten length of 12ft and the bracket width.

[2]Weight per Bracket is the total weight of the batten panel assembly distributed over 3 brackets over a 12ft overall batten panel length that is applied onto the substrate. Direction of loading is dependent on the application.

[3]Weight per Screw is the total weight of the batten panel assembly distributed across a minimum of 2 mounting screws through each bracket into the substrate. Direction of loading is dependent on the application.