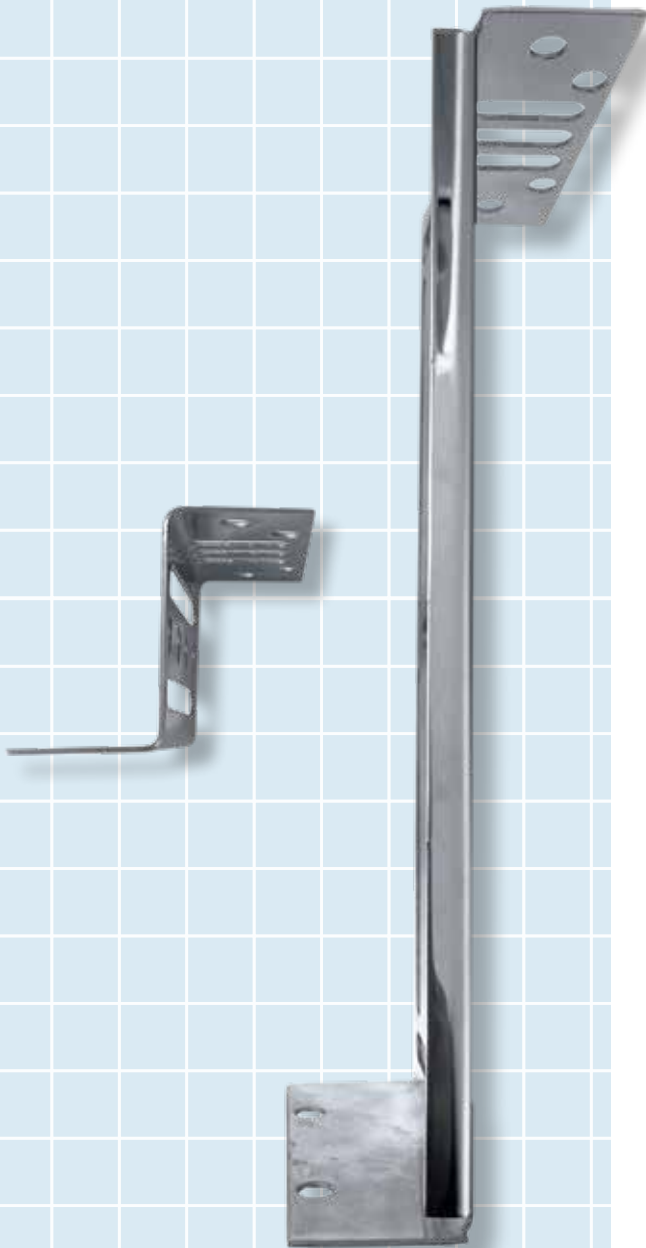


UTb

The Ultimate Thermal Bracket





Complex problems sometimes have simple solutions.

As the largest producers of carbon emissions in the world, buildings represent the largest part of a complex environmental problem: how to increase energy efficiency and life span. As new standards to combat these issues are introduced (ex. Passivehouse, Built GREEN, Step Code, LEED), architects and engineers are challenged to find creative solutions yet still remain within budget. The UTb is our simple solution to a small part of this complex problem.

The Ultimate Thermal Bracket (UTb) is a structural thermal bracket for use in rain screen wall and roof assemblies. Created by installers for installers, the UTb is simple to install, intuitive to use, cost effective and yet extensively tested for performance. Simple to use, designed to perform.

Structural Performance

Structural testing has been completed using 3D structural analysis and validated with physical destructive testing. This is to ensure that the UTb can be specified with confidence into any application and utilized to support almost all cladding materials.

If your project requires unique analysis, our engineers can review your project and make a quick determination of the viability of the UTb in your application. Further detailed technical information can be obtained by contacting 604-980-6414 or sales@LKMe.ca

Max. Tributary Area per Clip (ft2)

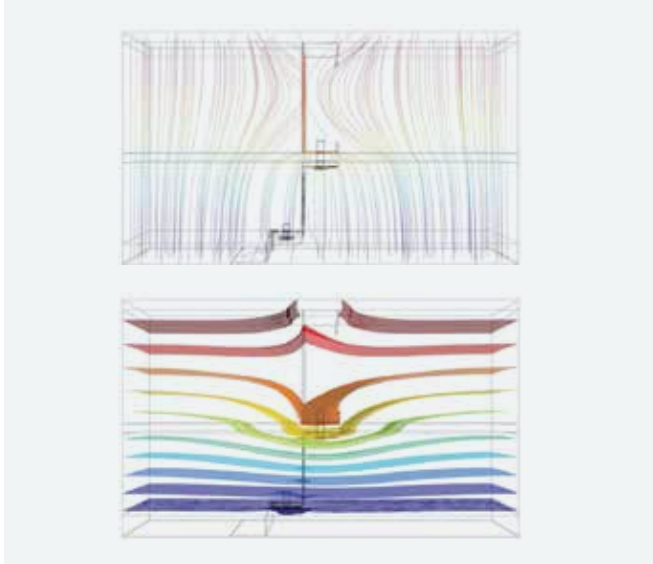
	5psf cladding						10psf cladding						15psf cladding					
	Wind Load (psf)						Wind Load (psf)						Wind Load (psf)					
Clip Size	10	20	30	40	50	60	10	20	30	40	50	60	10	20	30	40	50	60
2"	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0
3"	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	6.0	6.0	4.0	4.0	4.0	4.0
4"	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
5"	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0	2.7	2.7	2.7
6"	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	2.7	2.7	2.7	2.7	2.7	1.8
7"	6.0	6.0	6.0	6.0	6.0	4.0	6.0	6.0	4.0	4.0	4.0	2.7	2.7	2.7	2.7	2.7	1.8	1.8
8"	6.0	6.0	6.0	6.0	4.0	4.0	6.0	6.0	4.0	4.0	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8
9"	6.0	6.0	6.0	4.0	4.0	4.0	6.0	6.0	4.0	4.0	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8
10"	6.0	6.0	4.0	4.0	4.0	2.7	6.0	6.0	4.0	4.0	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8

Thermal Performance

The UTb has been extensively tested for thermal and structural performance. Depending upon the substrate, the UTb's superior structural performance requires fewer wall or roof panel penetrations, which further improves the UTb's already industry-leading thermal capabilities.

Tables 1A and 1B are just a small representation of the testing completed for the UTb. We have assembled the most common modes of

construction and can demonstrate how the UTb can improve your building's performance while meeting almost any engineering challenge presented. In addition to rigorous performance testing, the UTb also offers substantial cost savings over its competitors.



Heat Flux - Steel Stud Wall Assembly



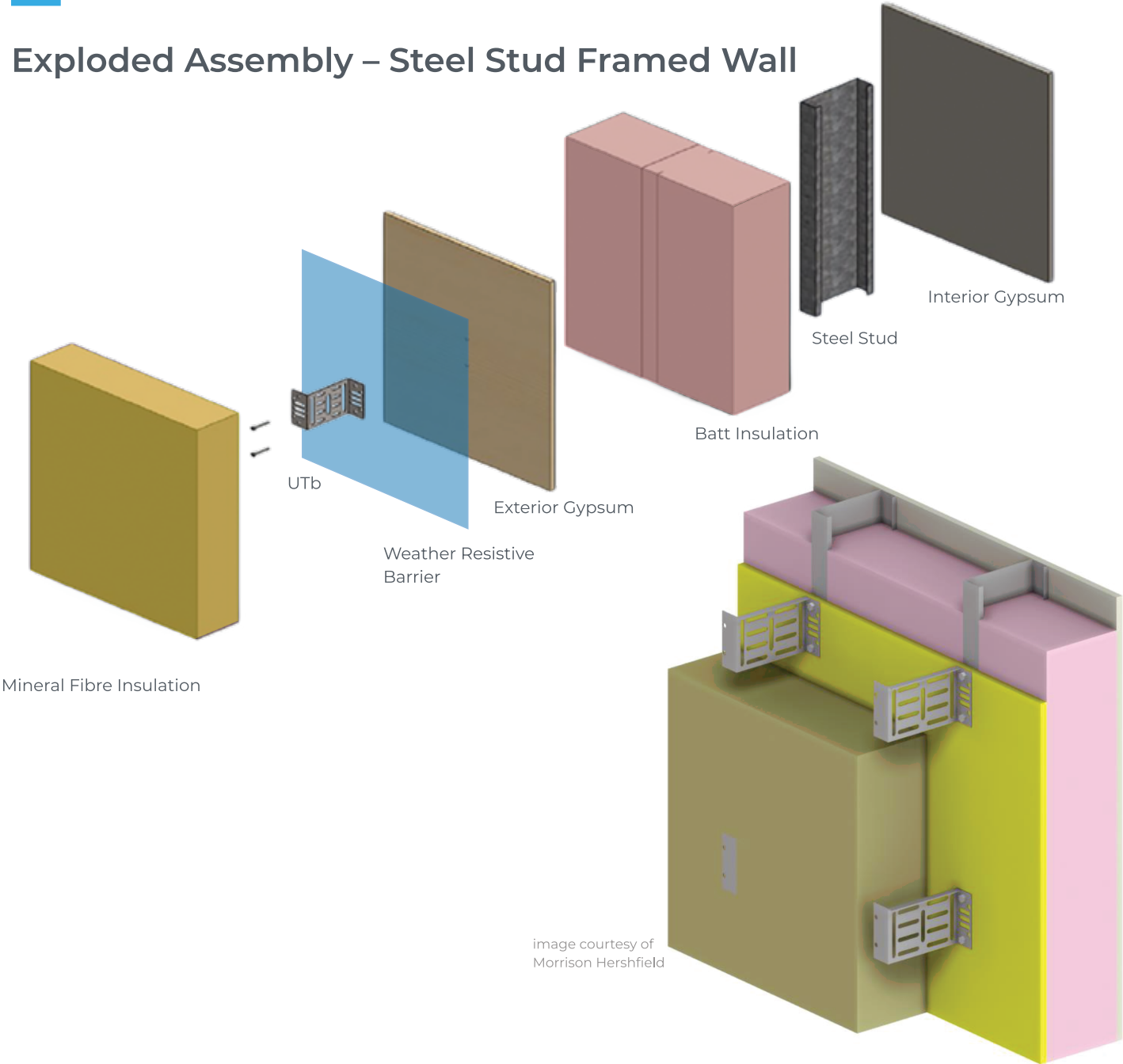
3D structural analysis

Table 1A - Thermal Performance

Effective R-Values m2K/W (ft2hr F/Btu)

Wall Type	Clip Spacing			Exterior Insulation Thickness (Mineral Fibre)								
	Horiz. (in.)	Vert. (in.)	Trib. (ft2) Area	2"	3"	4"	5"	6"	7"	8"	9"	10"
Wood Framed Wall w/R20 Cavity	16"	16.0	1.8	28.3	32.0	35.7	38.7	41.8	45.0	48.1	51.2	54.3
		24.0	2.7	28.0	32.4	36.2	39.6	43.0	46.4	49.9	53.3	56.6
		36.0	4.0	28.7	32.6	36.5	40.2	43.8	47.5	51.2	54.8	58.4
	24"	16.0	2.7	29.2	33.1	36.9	40.3	43.7	47.1	50.6	54.0	57.3
		24.0	4.0	29.4	33.3	37.2	40.9	44.5	48.2	51.9	55.5	59.1
		36.0	6.0	29.4	33.5	37.5	41.3	45.1	48.9	52.8	56.6	60.4
Steel Stud Framed Wall w/R20 Cavity	16"	16.0	1.8	18.8	22.5	26.0	29.1	32.1	35.1	38.3	41.3	44.1
		24.0	2.7	19.5	23.4	27.2	30.5	33.8	37.2	40.7	44.0	47.2
		36.0	4.0	20.1	24.1	28.0	31.6	35.2	38.8	42.5	46.1	49.6
	24"	16.0	2.7	21.8	25.7	29.5	32.9	36.2	39.6	43.1	46.4	49.6
		24.0	4.0	22.4	26.4	30.4	34.0	37.6	41.3	44.9	48.5	52.0
		36.0	6.0	22.8	26.9	31.0	34.9	38.6	42.5	46.3	50.1	53.8
Concrete Wall w/Exterior Insulation Insulation only	16"	16.0	1.8	9.9	13.6	17.3	20.2	23.2	26.4	29.5	32.5	35.6
		24.0	2.7	10.1	13.9	17.8	21.1	24.4	27.8	31.3	34.6	38.0
		36.0	4.0	10.2	14.1	18.1	21.7	25.3	28.9	32.6	36.2	39.8
	24"	16.0	2.7	10.1	13.9	17.8	21.1	24.4	27.8	31.6	34.6	38.0
		24.0	4.0	10.2	14.1	18.1	21.7	25.3	28.9	32.6	36.2	39.8
		36.0	6.0	10.3	14.3	18.3	22.1	25.9	29.7	33.5	37.3	41.1
				Non-Flanged Clip			Flanged Clip					

Exploded Assembly – Steel Stud Framed Wall



Standard Details

Need assistance with detail design? We can help.

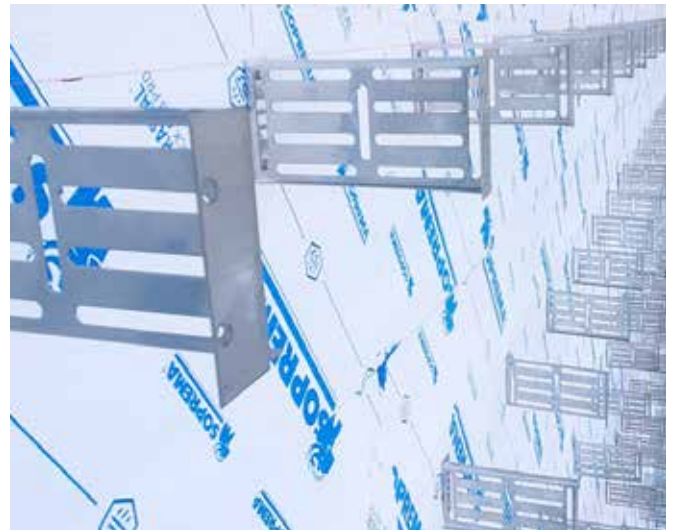
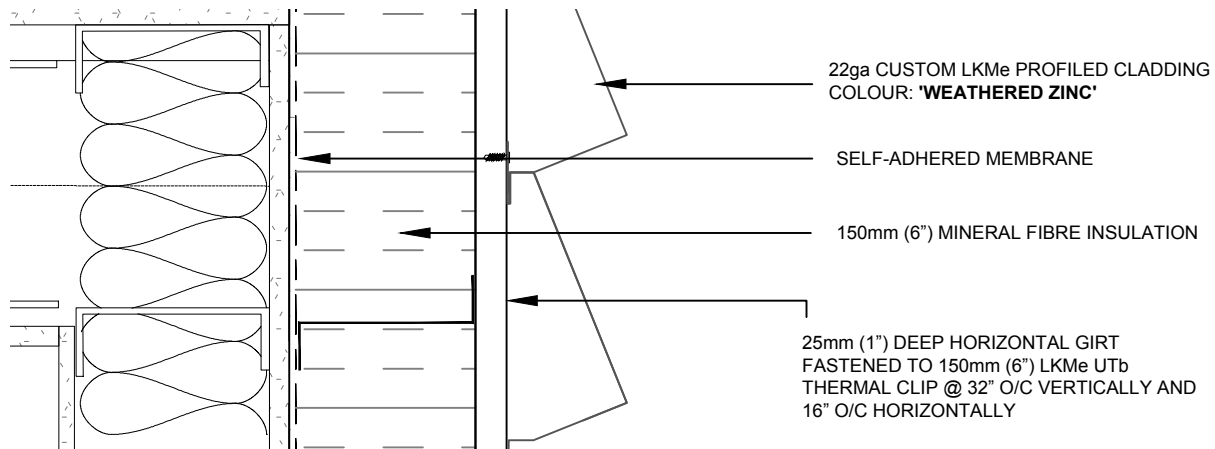
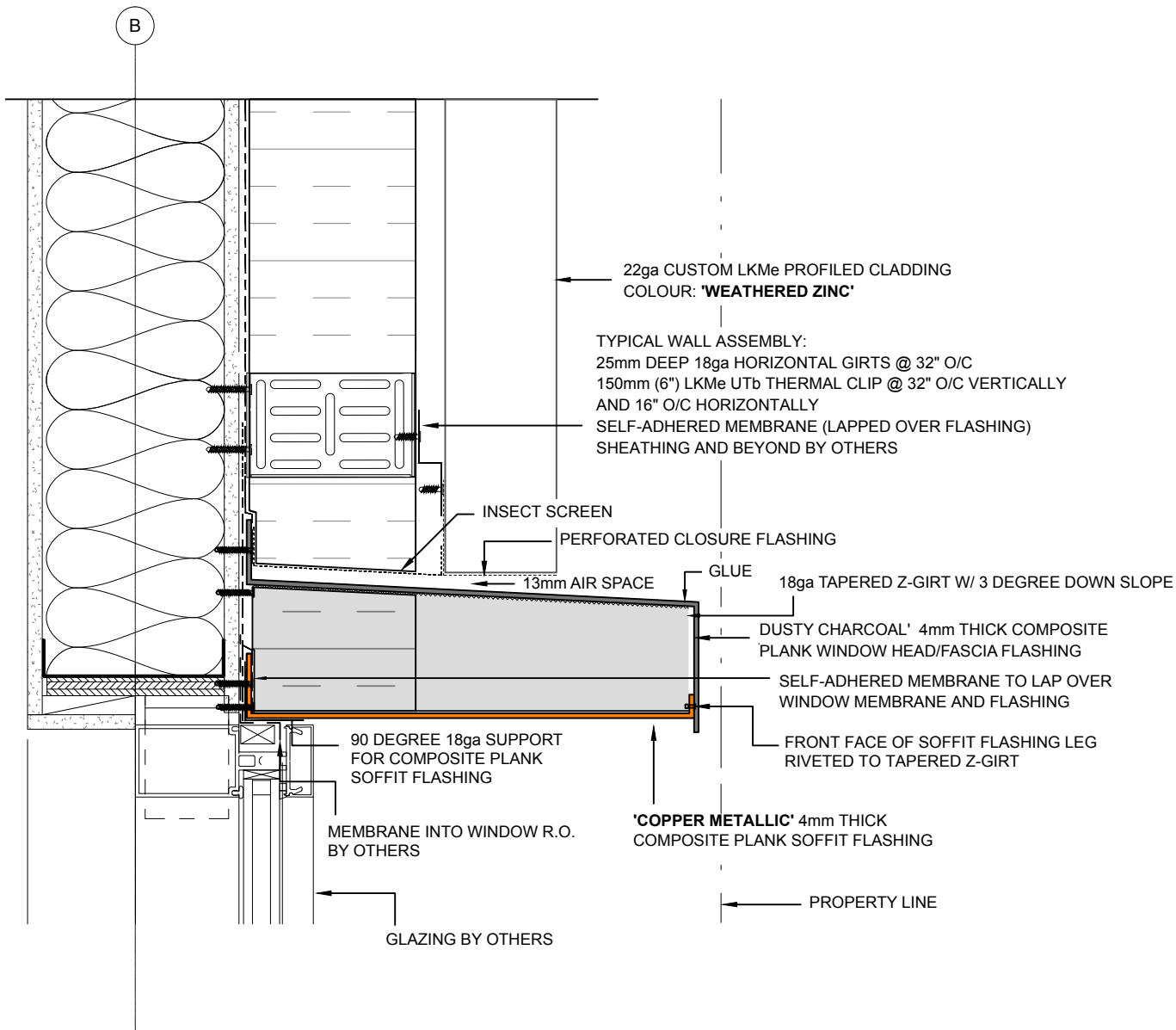


Image used with permission from Soprema



Cost effective, simple to use, designed to perform.

Available in 17 sizes from **2" (50.8mm) to 10" (254mm)** in length, in half inch increments, the UTb is simple and versatile. Custom sizes are also available for large orders.

Also known within industry as a "clip", the UTb adapts to any substrate, does not require long specialty fasteners, and is completely free of minor combustible components.

Simple, efficient, and practical. Its the Ultimate solution for cladding system attachment.



**Discover
Unlimited
Possibilities**



Long life span meets energy conservation for the ultimate thermal protection.

The UTb Ultimate Thermal Bracket by LKMe
Visit LKMe.ca or call **604-980-6414**

LKMe