

Heat flux conversion chart

W/m², BTU/(h·ft²). Factors are given to 7 significant figures; open the converter for full precision and the worked solution.

Conversion factors to watts per square metre (W/m ²)		
UNIT	IN W/M ²	1 W/M ² IN UNIT
watt per square metre (W/m ²)	1 W/m ²	1 W/m ²
kilowatt per square metre (kW/m ²)	1,000 W/m ²	0.001 kW/m ²
watt per square centimetre (W/cm ²)	10,000 W/m ²	0.0001 W/cm ²
BTU per hour square foot (BTU/(h·ft ²))	3.154591 W/m ²	0.3169983 BTU/(h·ft ²)
kilocalorie (IT) per hour square metre (kcal_IT/(h·m ²))	1.163 W/m ²	0.8598452 kcal_IT/(h·m ²)

W/m ² → BTU/(h·ft ²)	
W/M ²	BTU/(H·FT ²)
0.1 W/m ²	0.03169983 BTU/(h·ft ²)
0.5 W/m ²	0.1584992 BTU/(h·ft ²)
1 W/m ²	0.3169983 BTU/(h·ft ²)
2 W/m ²	0.6339967 BTU/(h·ft ²)
5 W/m ²	1.584992 BTU/(h·ft ²)
10 W/m ²	3.169983 BTU/(h·ft ²)
20 W/m ²	6.339967 BTU/(h·ft ²)
25 W/m ²	7.924958 BTU/(h·ft ²)
50 W/m ²	15.84992 BTU/(h·ft ²)
100 W/m ²	31.69983 BTU/(h·ft ²)
250 W/m ²	79.24958 BTU/(h·ft ²)
500 W/m ²	158.4992 BTU/(h·ft ²)
1,000 W/m ²	316.9983 BTU/(h·ft ²)

BTU/(h·ft ²) → W/m ²	
BTU/(H·FT ²)	W/M ²
0.1 BTU/(h·ft ²)	0.3154591 W/m ²
0.5 BTU/(h·ft ²)	1.577295 W/m ²
1 BTU/(h·ft ²)	3.154591 W/m ²
2 BTU/(h·ft ²)	6.309181 W/m ²
5 BTU/(h·ft ²)	15.77295 W/m ²
10 BTU/(h·ft ²)	31.54591 W/m ²
20 BTU/(h·ft ²)	63.09181 W/m ²
25 BTU/(h·ft ²)	78.86477 W/m ²
50 BTU/(h·ft ²)	157.7295 W/m ²
100 BTU/(h·ft ²)	315.4591 W/m ²
250 BTU/(h·ft ²)	788.6477 W/m ²
500 BTU/(h·ft ²)	1,577.295 W/m ²
1,000 BTU/(h·ft ²)	3,154.591 W/m ²

Formula: $BTU/(h \cdot ft^2) = W/m^2 \times 0.3169983306$