

ENGINEERED THERMAL SOLUTIONS

2002
EXTRUSION
SELECTION GUIDE
POWER PROFILES
FOR THE EUROPEAN MARKET



AAVID
THERMALLOY

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ATTENTION: the profiles indicated by a * beside the part number are not regularly in stock. Please check with customer service for availability.

THE TOTAL INTEGRATED SOLUTION FOR COOLING ELECTRONICS™

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Aavid Thermalloy combines the most advanced thermal resources – advanced thermal design and analysis, thermal design verification and prototyping, and the industry's broadest selection of products – to deliver cooling solutions ranging from off-the-shelf to cutting-edge. As the most complete package of thermal engineering and multiple support services for cooling electronics ever available, this is The Total Integrated Solution for Cooling Electronics™.

No one delivers so much so fast.

Our customers find that The Total Integrated Solution for Cooling Electronics is a complete package of benefits – from concept, design, analysis and development, through prototyping and manufacturing, all the way to local customer support and global supply chain management.

Aavid Thermalloy's proven expertise and dedicated support are always close at hand ready to help you at every step in your product development process.

Working as part of your product development team, Aavid Thermalloy helps you succeed.

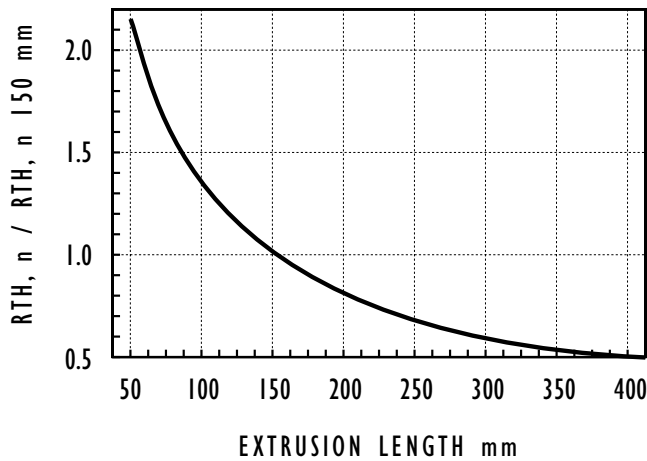
Our global reach and vast array of standard, customized, extruded, and fabricated heat sink solutions get you to market faster, better, and more economically than ever. Your thermal problem solving is further enhanced by Applied Thermal Technologies' advanced thermal design services and our expertise with the most advanced thermal software tools, including Icepak CFD software that models and simulates virtual prototypes of thermal solutions at every level.



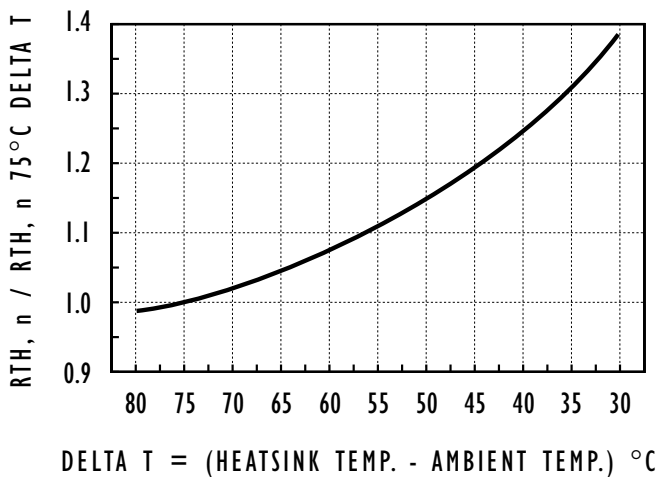
It all adds up to solving thermal management problems with maximum efficiency and optimal results. You never had so much, so advanced, coming from a single source:
The Total Integrated Solution for Cooling Electronics.



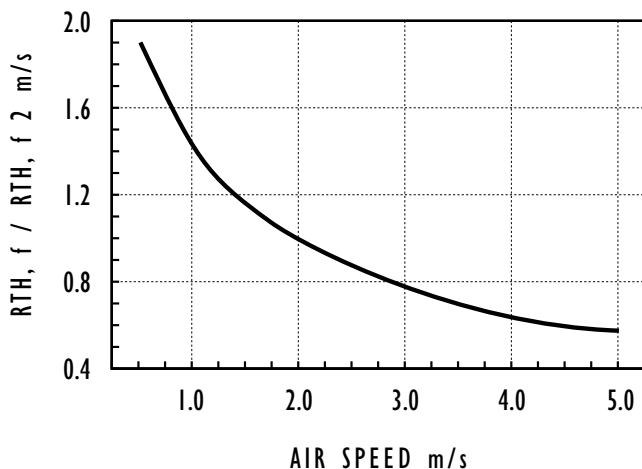
THERMAL RESISTANCE vs LENGTH



THERMAL RESISTANCE vs ($T_s - T_a$)



THERMAL RESISTANCE vs. AIR SPEED



HOW TO INTERPRET THERMAL PERFORMANCE

The extrusions are presented in order by shape and size. Dimensions are in mm with (inches) following in parenthesis. On the previous page there is an index sorted by extrusion part number. The part number, weight in kg/m, thermal resistance ($R_{th,n}$ with natural convection, thermal resistance $R_{th,f}$ with forced convection) at an air speed of 2.0 m/s is shown for each extrusion. The thermal resistances have been calculated using 150 mm long vertical anodized heat sinks with a sink-to-ambient temperature difference of 75°C and a uniform thermal load on the heat sink base.

LENGTH CORRECTION FACTOR

Because the air heats up while circulating through the extrusion, the convection coefficient is not constant throughout the extrusion length. Therefore, the thermal resistance changes nonlinearly as the length changes. To calculate the correct thermal resistance for extrusion lengths other than the standard 150 mm length, multiply the given thermal resistance data by the appropriate factor taken from the Thermal Resistance vs Length graph shown. The same correction factor must be used for thermal resistance in both natural convection and forced convection.

TEMPERATURE CORRECTION FACTOR

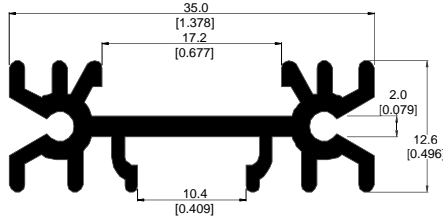
Both natural convection and radiation coefficients are related to the sink-to-ambient temperature difference. To evaluate the thermal performance of a heat sink for an application requiring a sink-to-ambient temperature rise other than 75°C, use the correction factor from the Thermal Resistance vs ($T_s - T_a$) graph shown. This factor must be used only for thermal resistance in natural convection.

AIR SPEED CORRECTION FACTOR

The convection coefficient is also closely related to the air speed through the fins. Since evaluation of air speed through the fins is difficult to evaluate under normal circumstances, we show the thermal resistance of an extrusion in forced convection evaluated using a tunnel the same size as the extrusion. For a tunnel airflow other than 2 m/s, refer to the factor in the Thermal Resistance vs Air Speed graph shown. Use this factor to figure thermal resistance in forced convection.

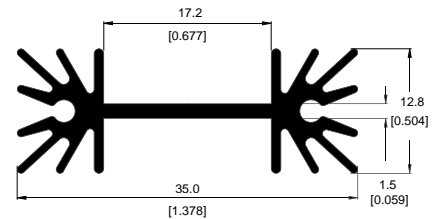
000SW

Wt: 0.43 Kg/m
 $R_{th,n}$: 5.3°C/W
 $R_{th,f}$: 1.87°C/W
 S.A.: 191 mm²/mm



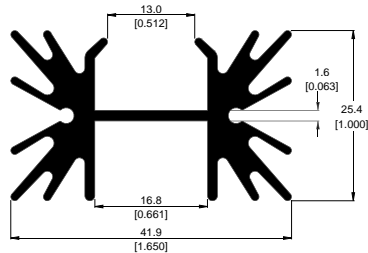
OS172

Wt: 0.4 Kg/m
 $R_{th,n}$: 4.37°C/W
 $R_{th,f}$: 1.52°C/W
 S.A.: 220 mm²/mm



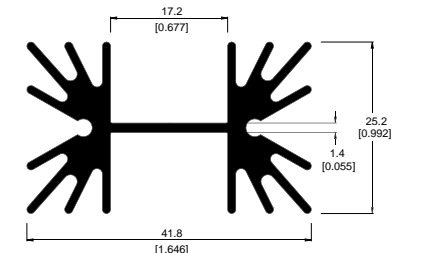
16372

Wt: 0.93 Kg/m
 $R_{th,n}$: 3.4°C/W
 $R_{th,f}$: 1.02°C/W
 S.A.: 323 mm²/mm



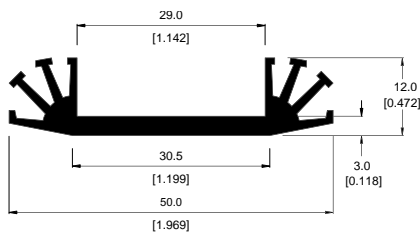
OS097

Wt: 0.88 Kg/m
 $R_{th,n}$: 3.43°C/W
 $R_{th,f}$: 1.16°C/W
 S.A.: 341 mm²/mm



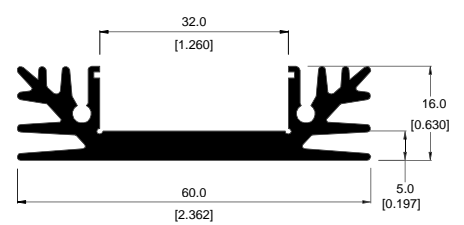
OS014

Wt: 0.60 Kg/m
 $R_{th,n}$: 5°C/W
 $R_{th,f}$: 3.13°C/W
 S.A.: 102 mm²/mm



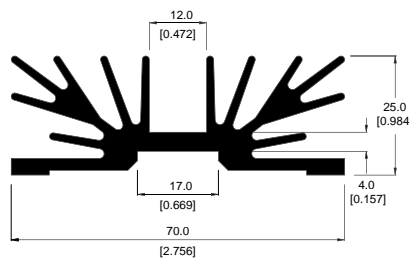
000YB

Wt: 1.08 Kg/m
 $R_{th,n}$: 3.21°C/W
 $R_{th,f}$: 1.15°C/W
 S.A.: 305 mm²/mm



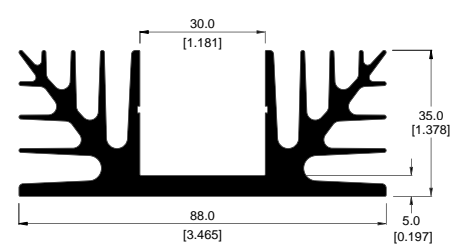
OK237

Wt: 1.91 Kg/m
 $R_{th,n}$: 1.53°C/W
 $R_{th,f}$: 0.59°C/W
 S.A.: 493 mm²/mm



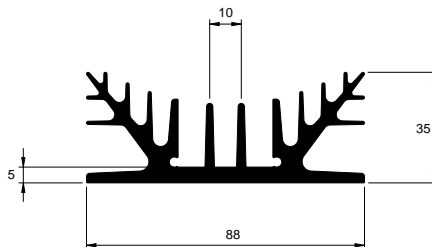
OS041

Wt: 3.02 Kg/m
 $R_{th,n}$: 1.32°C/W
 $R_{th,f}$: 0.51°C/W
 S.A.: 644 mm²/mm



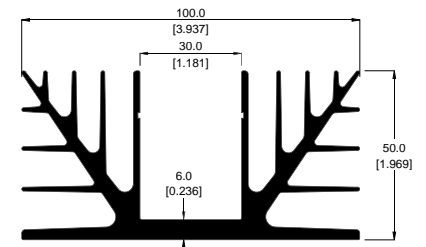
OS082*

Wt: 2.73 Kg/m
 $R_{th,n}$: 1.22 °C/W
 $R_{th,f}$: 0.49 °C/W
 S.A.: 605 mm²/mm



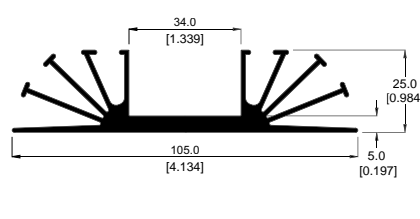
OS083

Wt: 4.9 Kg/m
 $R_{th,n}$: 0.8°C/W
 $R_{th,f}$: 0.32°C/W
 S.A.: 860 mm²/mm



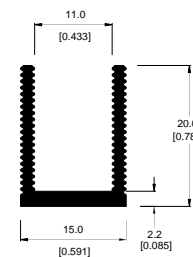
OS084

Wt: 1.81 Kg/m
 $R_{th,n}$: 1.32°C/W
 $R_{th,f}$: 0.55°C/W
 S.A.: 550 mm²/mm



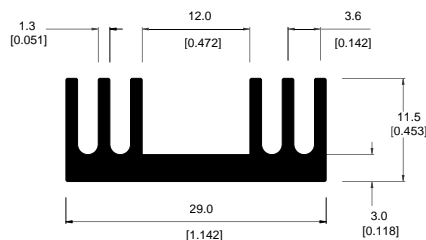
OS026

Wt: 0.27 Kg/m
 $R_{th,n}$: 4.55°C/W
 $R_{th,f}$: 2.7°C/W
 S.A.: 105 mm²/mm



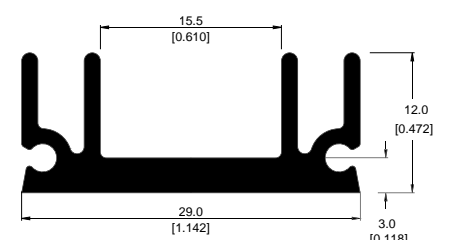
OS024

Wt: 0.44 Kg/m
 $R_{th,n}$: 6.09°C/W
 $R_{th,f}$: 2.25°C/W
 S.A.: 161 mm²/mm



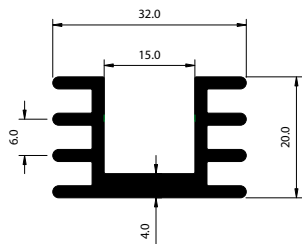
OS466*

Wt: 0.37 Kg/m
 $R_{th,n}$: 4.86°C/W
 $R_{th,f}$: 2.08°C/W
 S.A.: 139 mm²/mm



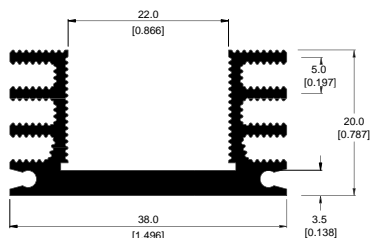
50049*

Wt: 0.65 Kg/m
 $R_{th,n}$: 4.5°C/W
 $R_{th,f}$: 1.58°C/W
 S.A.: 205 mm²/mm



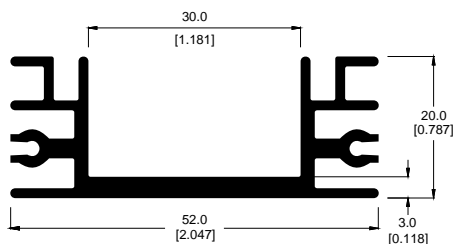
OS033

Wt: 0.66 Kg/m
 $R_{th,n}$: 4.21°C/W
 $R_{th,f}$: 1.52°C/W
 S.A.: 433 mm²/mm



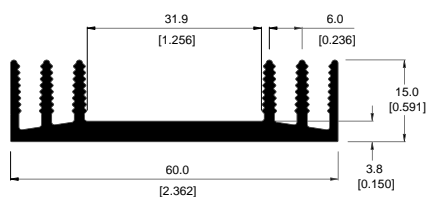
OS067

Wt: 0.80 Kg/m
 $R_{th,n}$: 3.23°C/W
 $R_{th,f}$: 1.31°C/W
 S.A.: 263 mm²/mm



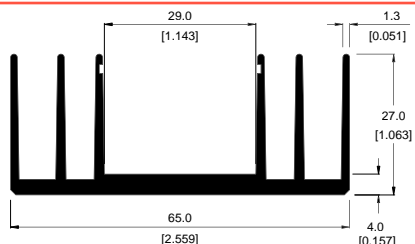
OS021

Wt: 0.92 Kg/m
 $R_{th,n}$: 2.86°C/W
 $R_{th,f}$: 1.18°C/W
 S.A.: 280 mm²/mm



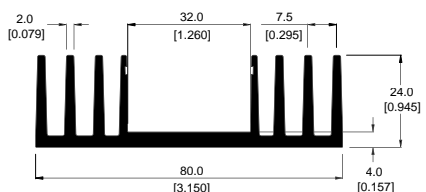
000ME

Wt: 1.21 Kg/m
 $R_{th,n}$: 1.79°C/W
 $R_{th,f}$: 0.84°C/W
 S.A.: 416 mm²/mm



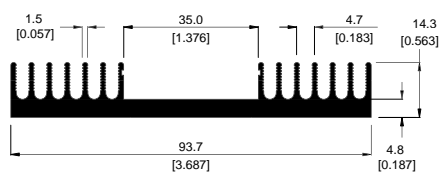
OS020

Wt: 1.8 Kg/m
 $R_{th,n}$: 1.97°C/W
 $R_{th,f}$: 0.71°C/W
 S.A.: 505 mm²/mm



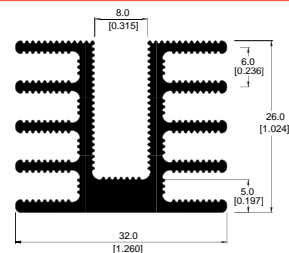
0000M

Wt: 1.69 Kg/m
 $R_{th,n}$: 2.12°C/W
 $R_{th,f}$: 0.69°C/W
 S.A.: 486 mm²/mm



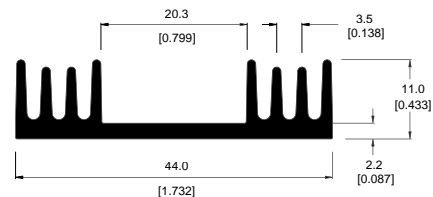
OS032

Wt: 1.02 Kg/m
 $R_{th,n}$: 2.83°C/W
 $R_{th,f}$: 0.94°C/W
 S.A.: 460 mm²/mm



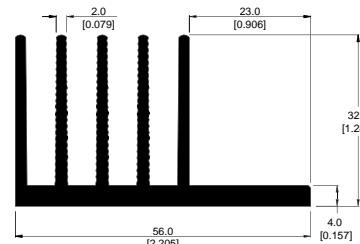
OS022

Wt: 0.6 Kg/m
 $R_{th,n}$: 4.09°C/W
 $R_{th,f}$: 1.71°C/W
 S.A.: 252 mm²/mm



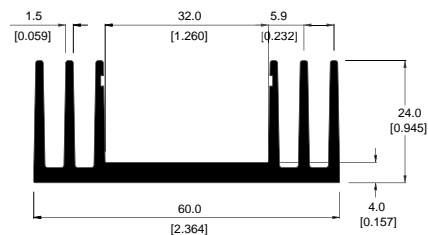
000MC

Wt: 1.47 Kg/m
 $R_{th,n}$: 1.97°C/W
 $R_{th,f}$: 0.8°C/W
 S.A.: 404 mm²/mm



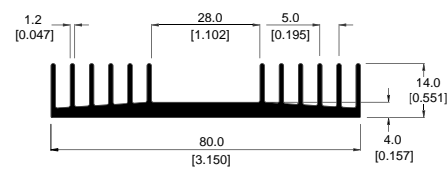
OS017

Wt: 1.23 Kg/m
 $R_{th,n}$: 2.52°C/W
 $R_{th,f}$: 0.99°C/W
 S.A.: 369 mm²/mm



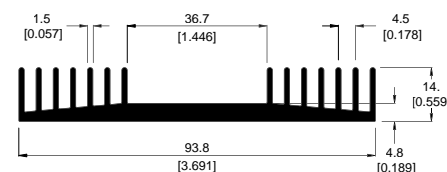
OS025

Wt: 1.26 Kg/m
 $R_{th,n}$: 2.25°C/W
 $R_{th,f}$: 0.81°C/W
 S.A.: 440 mm²/mm



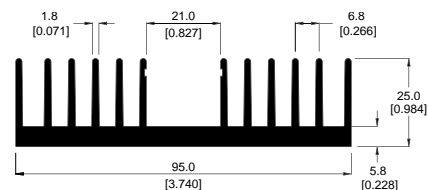
OS030

Wt: 1.61 Kg/m
 $R_{th,n}$: 2.18°C/W
 $R_{th,f}$: 0.7°C/W
 S.A.: 475 mm²/mm



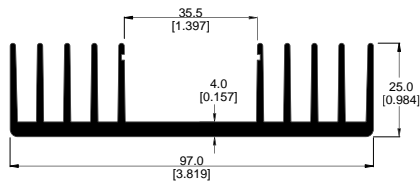
OS031*

Wt: 2.74 Kg/m
 $R_{th,n}$: 1.45°C/W
 $R_{th,f}$: 0.49°C/W
 S.A.: 663 mm²/mm



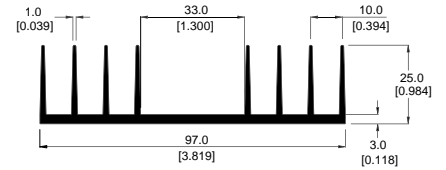
000MA

Wt: 2.04 Kg/m
 $R_{th,n}$: 1.38°C/W
 $R_{th,f}$: 0.56°C/W
 S.A.: 612 mm²/mm



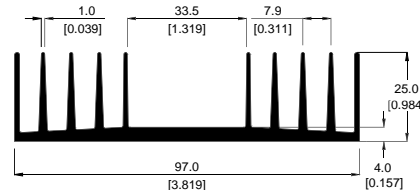
0S023*

Wt: 1.55 Kg/m
 $R_{th,n}$: 1.23°C/W
 $R_{th,f}$: 0.62°C/W
 S.A.: 555 mm²/mm



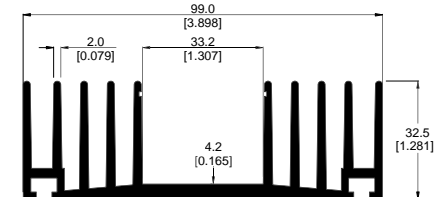
0S117

Wt: 1.84 Kg/m
 $R_{th,n}$: 1.08°C/W
 $R_{th,f}$: 0.51°C/W
 S.A.: 617 mm²/mm



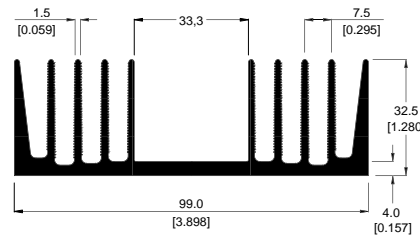
000MB

Wt: 2.72 Kg/m
 $R_{th,n}$: 1.09°C/W
 $R_{th,f}$: 0.41°C/W
 S.A.: 791 mm²/mm



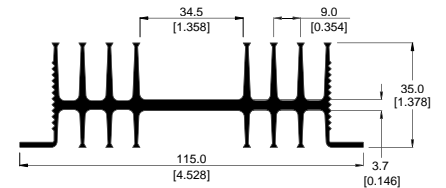
000MK

Wt: 2.72 Kg/m
 $R_{th,n}$: 1.07°C/W
 $R_{th,f}$: 0.41°C/W
 S.A.: 852 mm²/mm



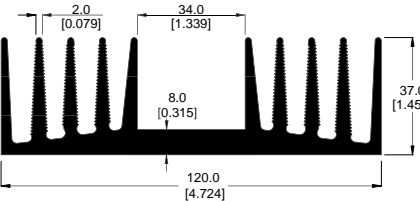
0S040

Wt: 2.42 Kg/m
 $R_{th,n}$: 0.99°C/W
 $R_{th,f}$: 0.72°C/W
 S.A.: 802 mm²/mm



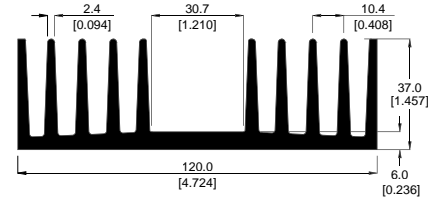
000MD

Wt: 4.86 Kg/m
 $R_{th,n}$: 0.87°C/W
 $R_{th,f}$: 0.32°C/W
 S.A.: 964 mm²/mm



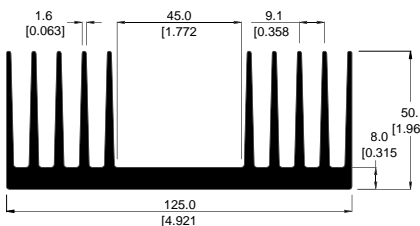
0S561

Wt: 4.64 Kg/m
 $R_{th,n}$: 0.81°C/W
 $R_{th,f}$: 0.21°C/W
 S.A.: 852 mm²/mm



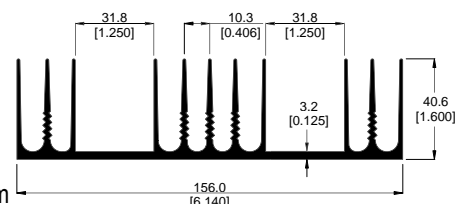
000ML

Wt: 5.55 Kg/m
 $R_{th,n}$: 0.74°C/W
 $R_{th,f}$: 0.3°C/W
 S.A.: 1073 mm²/mm



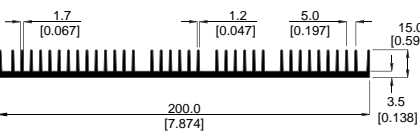
000MG

Wt: 3.46 Kg/m
 $R_{th,n}$: 0.62°C/W
 $R_{th,f}$: 0.29°C/W
 S.A.: 1145 mm²/mm



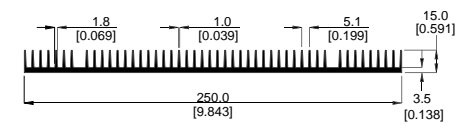
0S491

Wt: 3.53 Kg/m
 $R_{th,n}$: 0.93°C/W
 $R_{th,f}$: 0.28°C/W
 S.A.: 1307 mm²/mm



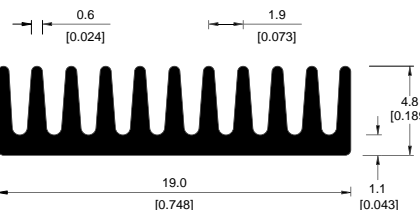
0S502*

Wt: 4.44 Kg/m
 $R_{th,n}$: 0.73°C/W
 $R_{th,f}$: 0.22°C/W
 S.A.: 1531 mm²/mm



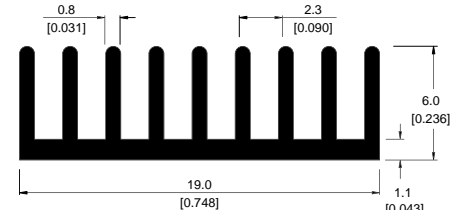
0S058

Wt: 0.17 Kg/m
 $R_{th,n}$: 13.2°C/W
 $R_{th,f}$: 5.15°C/W
 S.A.: 111 mm²/mm



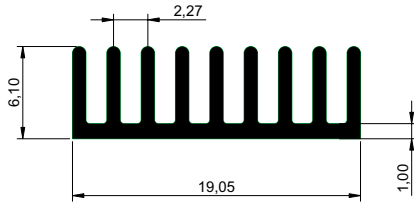
04019

Wt: 0.15 Kg/m
 $R_{th,n}$: 11.37°C/W
 $R_{th,f}$: 3.82°C/W
 S.A.: 125 mm²/mm



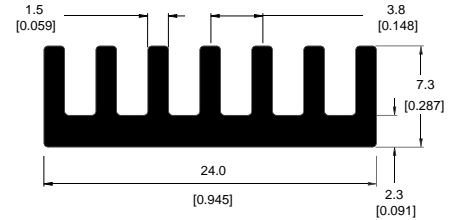
0DIPD

Wt: 0.16 Kg/m
 $R_{th,n}$: 12.3°C/W
 $R_{th,f}$: 3.70°C/W
 S.A.: 127 mm²/mm



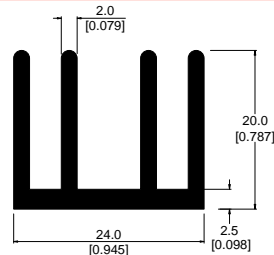
0S134

Wt: 0.29 Kg/m
 $R_{th,n}$: 8.79°C/W
 $R_{th,f}$: 3.06°C/W
 S.A.: 119 mm²/mm



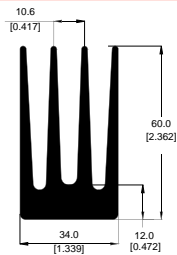
0S009

Wt: 0.53 Kg/m
 $R_{th,n}$: 4.21°C/W
 $R_{th,f}$: 1.72°C/W
 S.A.: 190 mm²/mm



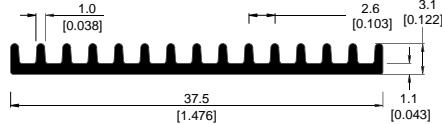
0S479

Wt: 2.97 Kg/m
 $R_{th,n}$: 1.73°C/W
 $R_{th,f}$: 0.63°C/W
 S.A.: 666 mm²/mm



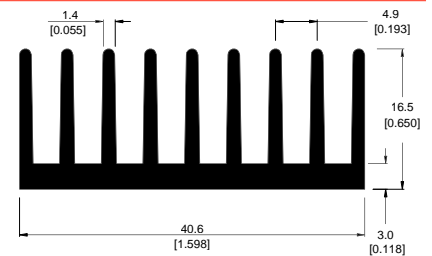
0S563

Wt: 0.18 Kg/m
 $R_{th,n}$: 7.52°C/W
 $R_{th,f}$: 3.83°C/W
 S.A.: 126 mm²/mm



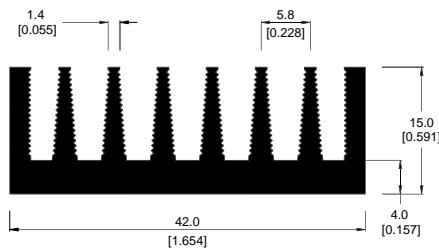
07619

Wt: 0.84 Kg/m
 $R_{th,n}$: 3.61°C/W
 $R_{th,f}$: 1.08°C/W
 S.A.: 321 mm²/mm



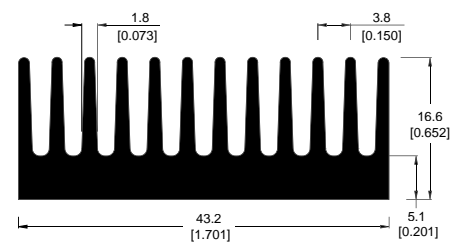
0S056

Wt: 1.03 Kg/m
 $R_{th,n}$: 3.78°C/W
 $R_{th,f}$: 1.13°C/W
 S.A.: 270 mm²/mm



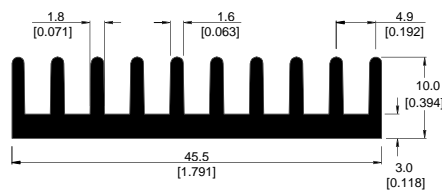
18564

Wt: 1.16 Kg/m
 $R_{th,n}$: 3.9°C/W
 $R_{th,f}$: 0.92°C/W
 S.A.: 351 mm²/mm



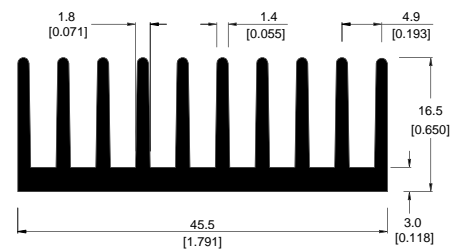
0770A

Wt: 0.68 Kg/m
 $R_{th,n}$: 4.27°C/W
 $R_{th,f}$: 1.4°C/W
 S.A.: 228 mm²/mm



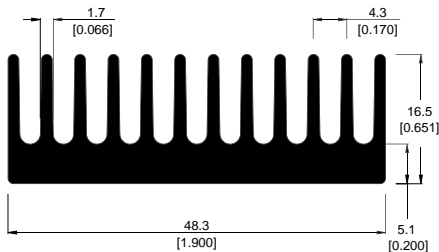
0761A

Wt: 0.94 Kg/m
 $R_{th,n}$: 3.29°C/W
 $R_{th,f}$: 0.97°C/W
 S.A.: 357 mm²/mm



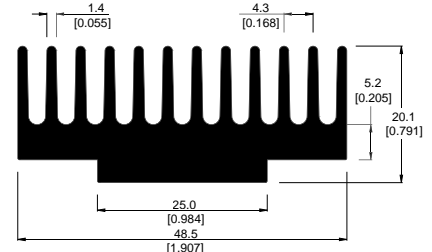
19325

Wt: 1.2 Kg/m
 $R_{th,n}$: 3.43°C/W
 $R_{th,f}$: 0.85°C/W
 S.A.: 359 mm²/mm



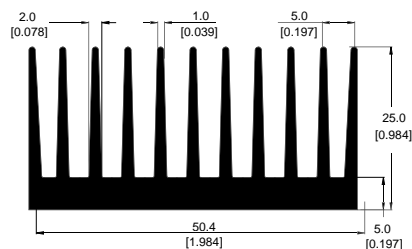
0S557

Wt: 1.51 Kg/m
 $R_{th,n}$: 3.3°C/W
 $R_{th,f}$: 1.62°C/W
 S.A.: 367 mm²/mm



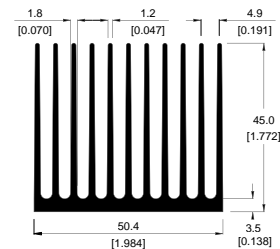
0S467

Wt: 1.58 Kg/m
 $R_{th,n}$: 2.37°C/W
 $R_{th,f}$: 0.6°C/W
 S.A.: 533 mm²/mm



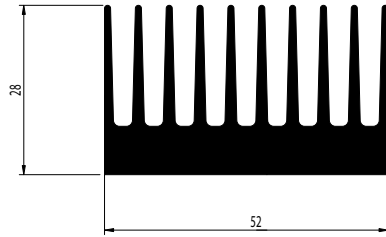
05416

Wt: 2.35 Kg/m
 $R_{th,n}$: 1.34°C/W
 $R_{th,f}$: 0.37°C/W
 S.A.: 995 mm²/mm



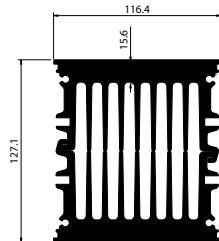
OSA68

Wt: 1.99 Kg/m
 $R_{th,n}$: 2.28°C/W
 $R_{th,f}$: 0.60°C/W
 S.A.: 538 mm²/mm



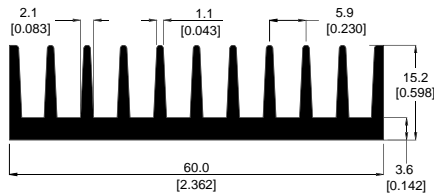
D4785*

Wt: 19.09 Kg/m
 $R_{th,n}$: 0.93°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 2400 mm²/mm



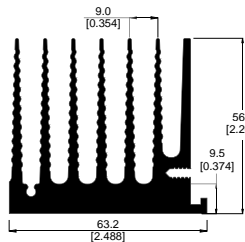
OSA495*

Wt: 1.16 Kg/m
 $R_{th,n}$: 2.61°C/W
 $R_{th,f}$: 0.9°C/W
 S.A.: 367 mm²/mm



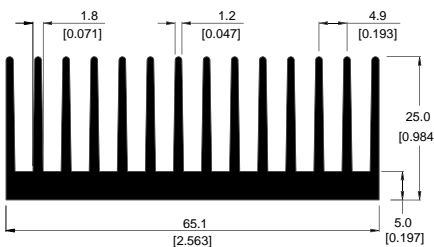
OS564

Wt: 4.00 Kg/m
 $R_{th,n}$: 1.07°C/W
 $R_{th,f}$: 0.36°C/W
 S.A.: 813 mm²/mm



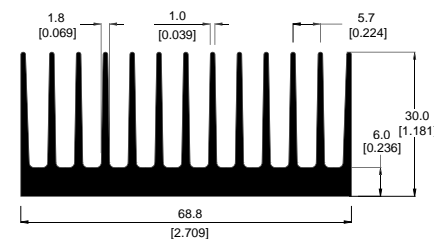
0851E

Wt: 1.7 Kg/m
 $R_{th,n}$: 1.9°C/W
 $R_{th,f}$: 0.49°C/W
 S.A.: 685 mm²/mm



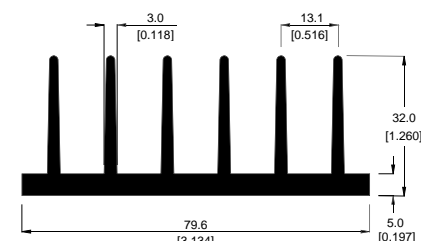
OS519*

Wt: 2.3 Kg/m
 $R_{th,n}$: 1.6°C/W
 $R_{th,f}$: 0.43°C/W
 S.A.: 748 mm²/mm



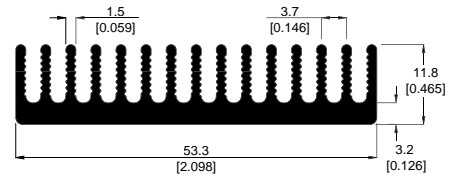
OSY43*

Wt: 2.2 Kg/m
 $R_{th,n}$: 1.3°C/W
 $R_{th,f}$: 0.59°C/W
 S.A.: 482 mm²/mm



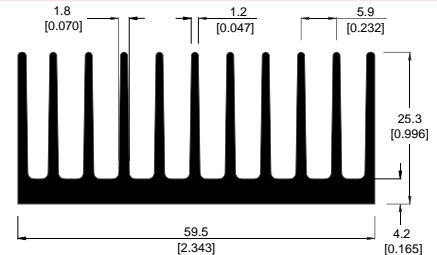
OS587

Wt: 0.93 Kg/m
 $R_{th,n}$: 3.52°C/W
 $R_{th,f}$: 0.94°C/W
 S.A.: 382 mm²/mm



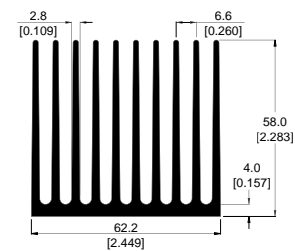
OSA04

Wt: 1.71 Kg/m
 $R_{th,n}$: 2.09°C/W
 $R_{th,f}$: 0.55°C/W
 S.A.: 612 mm²/mm



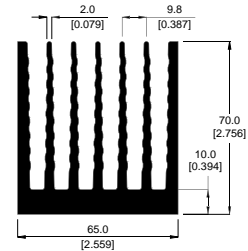
06261

Wt: 4.05 Kg/m
 $R_{th,n}$: 0.92°C/W
 $R_{th,f}$: 0.27°C/W
 S.A.: 1180 mm²/mm



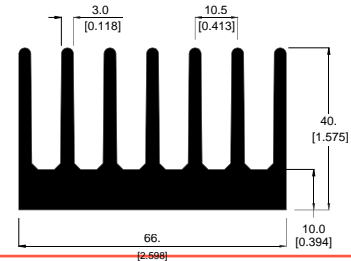
OSY59*

Wt: 5.65 Kg/m
 $R_{th,n}$: 0.89°C/W
 $R_{th,f}$: 0.31°C/W
 S.A.: 977 mm²/mm



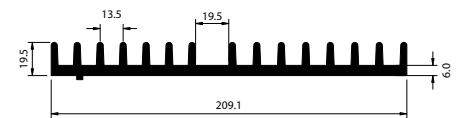
OS146 - 50129

Wt: 3.65 Kg/m
 $R_{th,n}$: 1.33°C/W
 $R_{th,f}$: 0.5°C/W
 S.A.: 549 mm²/mm



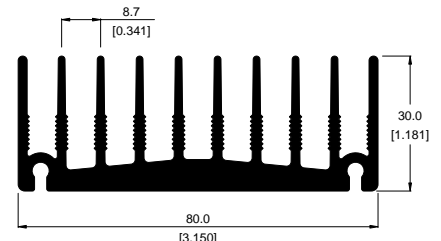
04870*

Wt: 5.52 Kg/m
 $R_{th,n}$: 0.73°C/W
 $R_{th,f}$: 0.30°C/W
 S.A.: 805 mm²/mm



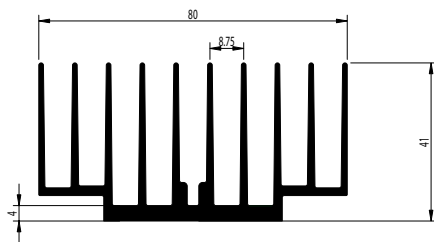
0000E

Wt: 2.18 Kg/m
 $R_{th,n}$: 1.33°C/W
 $R_{th,f}$: 0.49°C/W
 S.A.: 713 mm²/mm



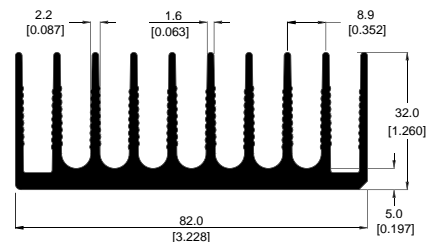
OSA18

Wt: 2.25 Kg/m
 $R_{th,n}$: 1.01°C/W
 $R_{th,f}$: 0.42°C/W
 S.A.: 852 mm²/mm



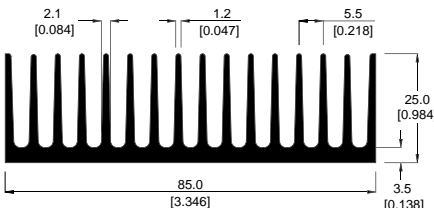
OS485

Wt: 2.62 Kg/m
 $R_{th,n}$: 1.18°C/W
 $R_{th,f}$: 0.45°C/W
 S.A.: 698 mm²/mm



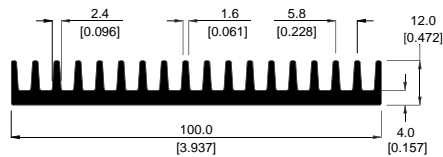
OSY12*

Wt: 2.35 Kg/m
 $R_{th,n}$: 1.53°C/W
 $R_{th,f}$: 0.43°C/W
 S.A.: 801 mm²/mm



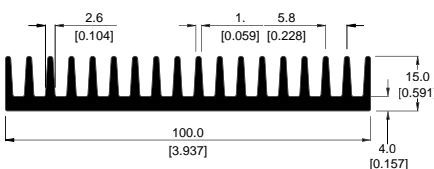
OS471

Wt: 1.85 Kg/m
 $R_{th,n}$: 1.97°C/W
 $R_{th,f}$: 0.63°C/W
 S.A.: 466 mm²/mm



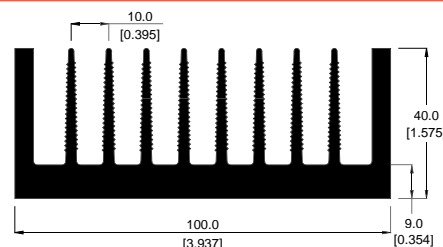
OK259

Wt: 2.08 Kg/m
 $R_{th,n}$: 1.71°C/W
 $R_{th,f}$: 0.54°C/W
 S.A.: 566 mm²/mm



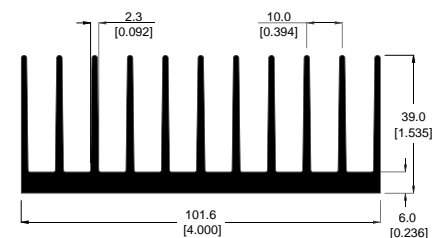
OS461

Wt: 4.97 Kg/m
 $R_{th,n}$: 0.86°C/W
 $R_{th,f}$: 0.31°C/W
 S.A.: 920 mm²/mm



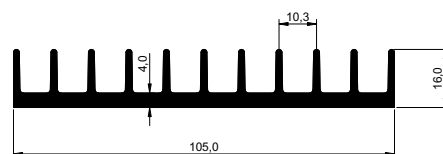
OSY39

Wt: 3.61 Kg/m
 $R_{th,n}$: 0.83°C/W
 $R_{th,f}$: 0.34°C/W
 S.A.: 921 mm²/mm



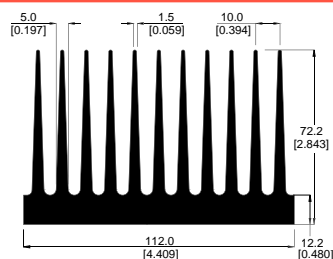
000EB

Wt: 1.77 Kg/m
 $R_{th,n}$: 1.33°C/W
 $R_{th,f}$: 0.59°C/W
 S.A.: 462 mm²/mm



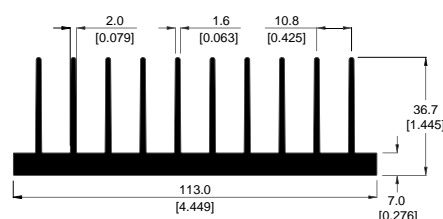
OS171*

Wt: 9.44 Kg/m
 $R_{th,n}$: 0.59°C/W
 $R_{th,f}$: 0.19°C/W
 S.A.: 1517 mm²/mm



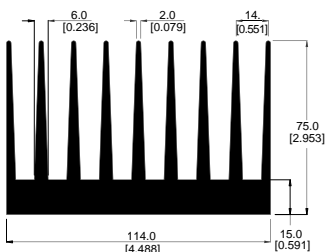
OS036

Wt: 4.03 Kg/m
 $R_{th,n}$: 0.84°C/W
 $R_{th,f}$: 0.33°C/W
 S.A.: 840 mm²/mm



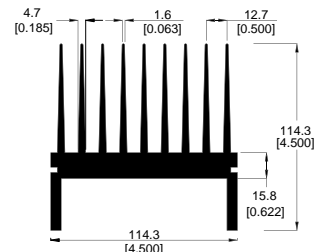
000EJ

Wt: 10.08 Kg/m
 $R_{th,n}$: 0.56°C/W
 $R_{th,f}$: 0.22°C/W
 S.A.: 1298 mm²/mm



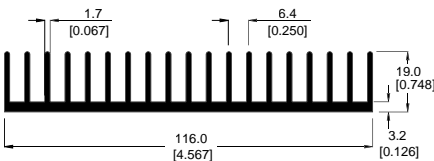
000ZG

Wt: 10.98 Kg/m
 $R_{th,n}$: 0.47°C/W
 $R_{th,f}$: 0.2°C/W
 S.A.: 1570 mm²/mm



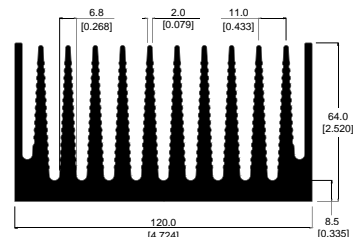
17326

Wt: 2.37 Kg/m
 $R_{th,n}$: 1.24°C/W
 $R_{th,f}$: 0.42°C/W
 S.A.: 825 mm²/mm



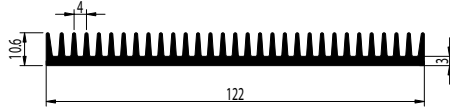
OSX53

Wt: 10.47 Kg/m
 $R_{th,n}$: 0.59°C/W
 $R_{th,f}$: 0.18°C/W
 S.A.: 1525 mm²/mm



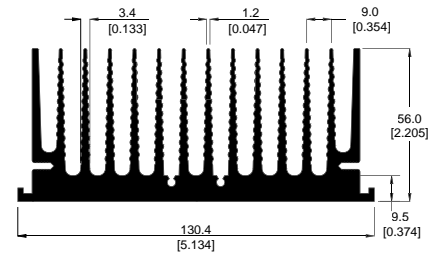
OSA71

Wt: 492 Kg/m
 $R_{th,n}$: 1.81°C/W
 $R_{th,f}$: 0.50°C/W
 S.A.: 667 mm²/mm



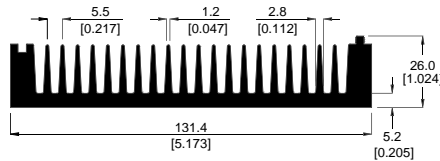
OS484

Wt: 8.1 Kg/m
 $R_{th,n}$: 0.59°C/W
 $R_{th,f}$: 0.2°C/W
 S.A.: 1600 mm²/mm



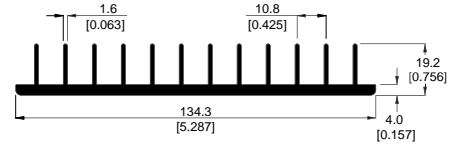
OSY03

Wt: 4.63 Kg/m
 $R_{th,n}$: 1.18°C/W
 $R_{th,f}$: 0.33°C/W
 S.A.: 1006 mm²/mm



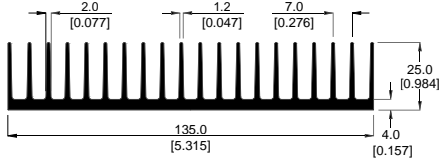
OS046*

Wt: 2.34 Kg/m
 $R_{th,n}$: 0.98°C/W
 $R_{th,f}$: 0.46°C/W
 S.A.: 640 mm²/mm



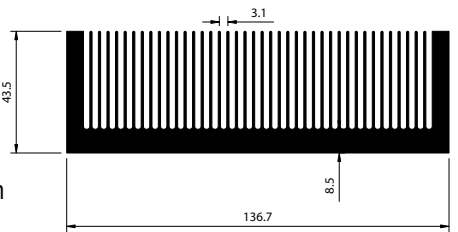
OS080

Wt: 3.28 Kg/m
 $R_{th,n}$: 1.14°C/W
 $R_{th,f}$: 0.45°C/W
 S.A.: 717 mm²/mm



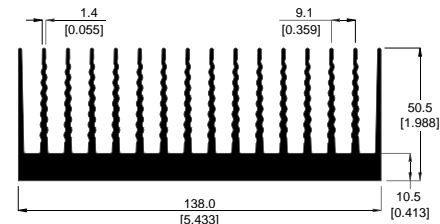
OS484*

Wt: 7.33 Kg/m
 $R_{th,n}$: 0.76°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 3181 mm²/mm



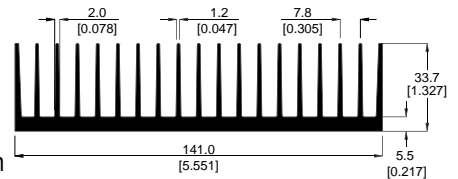
OSY78

Wt: 7.5 Kg/m
 $R_{th,n}$: 0.57°C/W
 $R_{th,f}$: 0.19°C/W
 S.A.: 1577 mm²/mm



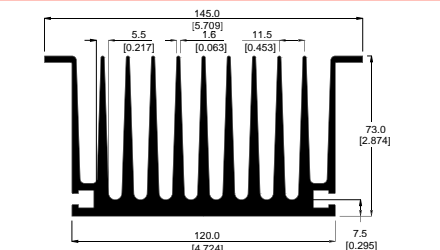
OS499

Wt: 4.59 Kg/m
 $R_{th,n}$: 0.7°C/W
 $R_{th,f}$: 0.25°C/W
 S.A.: 1330 mm²/mm



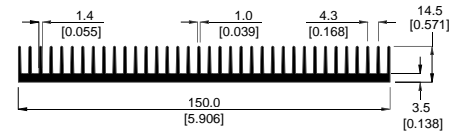
OS103*

Wt: 9.14 Kg/m
 $R_{th,n}$: 0.47°C/W
 $R_{th,f}$: 0.18°C/W
 S.A.: 165 mm²/mm



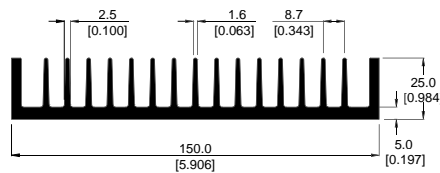
OSX77

Wt: 2.81 Kg/m
 $R_{th,n}$: 1.21°C/W
 $R_{th,f}$: 0.34°C/W
 S.A.: 1068 mm²/mm



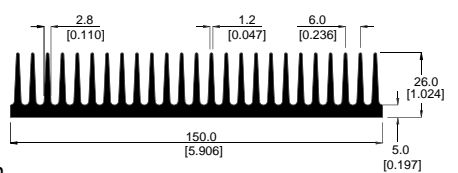
OS585 - EW

Wt: 4.18 Kg/m
 $R_{th,n}$: 0.83°C/W
 $R_{th,f}$: 0.31°C/W
 S.A.: 953 mm²/mm



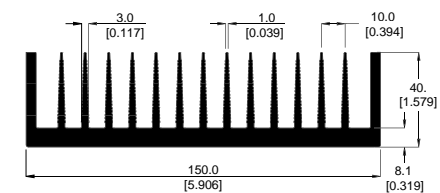
OS120

Wt: 5.3 Kg/m
 $R_{th,n}$: 0.9°C/W
 $R_{th,f}$: 0.24°C/W
 S.A.: 1274 mm²/mm



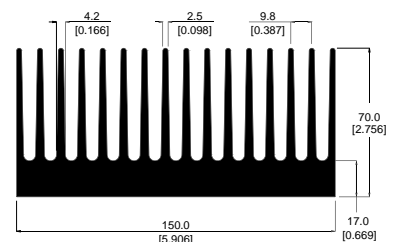
OS486*

Wt: 6.51 Kg/m
 $R_{th,n}$: 0.59°C/W
 $R_{th,f}$: 0.23°C/W
 S.A.: 1283 mm²/mm



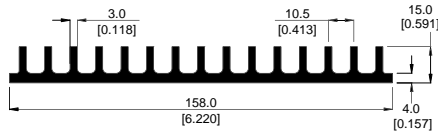
OSX43

Wt: 14.58 Kg/m
 $R_{th,n}$: 0.49°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 1996 mm²/mm



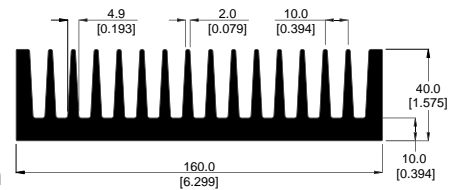
0K267

Wt: 3.13 Kg/m
 $R_{th,n}$: 1.01°C/W
 $R_{th,f}$: 0.4°C/W
 S.A.: 626 mm²/mm



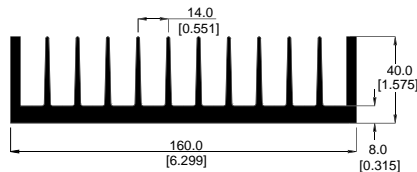
0K270 - EV

Wt: 9.31 Kg/m
 $R_{th,n}$: 0.68°C/W
 $R_{th,f}$: 0.21°C/W
 S.A.: 1231 mm²/mm



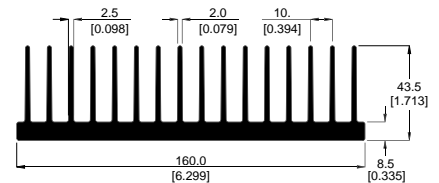
0S462

Wt: 6.16 Kg/m
 $R_{th,n}$: 0.63°C/W
 $R_{th,f}$: 0.27°C/W
 S.A.: 1078 mm²/mm



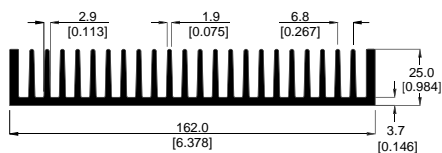
0S990

Wt: 7.14 Kg/m
 $R_{th,n}$: 0.55°C/W
 $R_{th,f}$: 0.21°C/W
 S.A.: 1419 mm²/mm



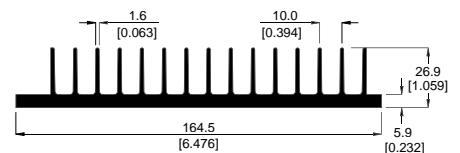
0S482*

Wt: 5.09 Kg/m
 $R_{th,n}$: 0.86°C/W
 $R_{th,f}$: 0.24°C/W
 S.A.: 1884 mm²/mm



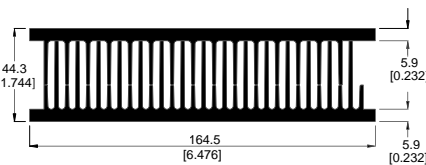
0SY93

Wt: 4.27 Kg/m
 $R_{th,n}$: 0.71°C/W
 $R_{th,f}$: 0.31°C/W
 S.A.: 938 mm²/mm



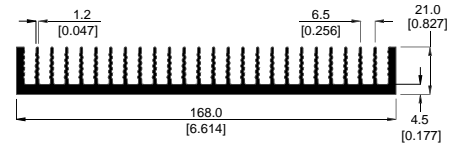
0AY92

Wt: 10.27 Kg/m
 $R_{th,n}$: 0.64°C/W
 $R_{th,f}$: 0.15°C/W
 S.A.: 2567 mm²/mm



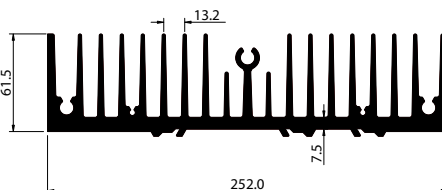
0SX98

Wt: 3.85 Kg/m
 $R_{th,n}$: 0.58°C/W
 $R_{th,f}$: 0.23°C/W
 S.A.: 1233 mm²/mm



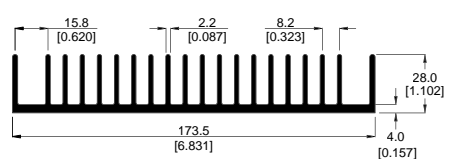
05026

Wt: 15.45 Kg/m
 $R_{th,n}$: 0.32°C/W
 $R_{th,f}$: 0.12°C/W
 S.A.: 2392 mm²/mm



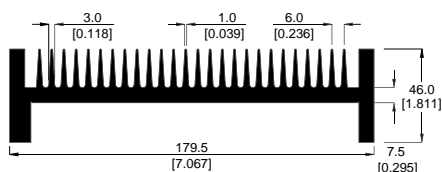
0S044

Wt: 4.78 Kg/m
 $R_{th,n}$: 0.51°C/W
 $R_{th,f}$: 0.18°C/W
 S.A.: 2010 mm²/mm



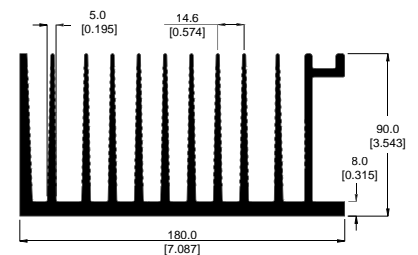
0S900

Wt: 8.06 Kg/m
 $R_{th,n}$: 0.77°C/W
 $R_{th,f}$: 0.19°C/W
 S.A.: 1423 mm²/mm



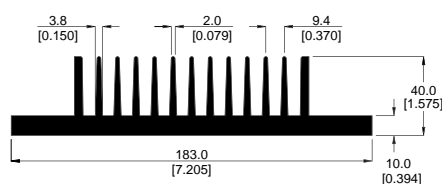
0S483

Wt: 14.06 Kg/m
 $R_{th,n}$: 0.37°C/W
 $R_{th,f}$: 0.17°C/W
 S.A.: 2213 mm²/mm



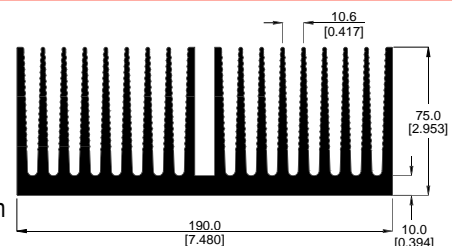
000ED

Wt: 8.18 Kg/m
 $R_{th,n}$: 0.62°C/W
 $R_{th,f}$: 0.26°C/W
 S.A.: 1135 mm²/mm



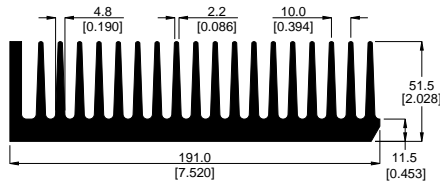
0S451

Wt: 16.11 Kg/m
 $R_{th,n}$: 0.36°C/W
 $R_{th,f}$: 0.1°C/W
 S.A.: 2755 mm²/mm



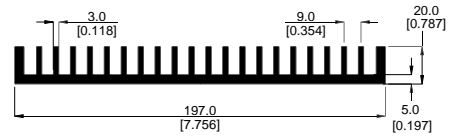
OS551*

Wt: 14.02 Kg/m
 $R_{th,n}$: 0.49°C/W
 $R_{th,f}$: 0.15°C/W
 S.A.: 1821 mm²/mm



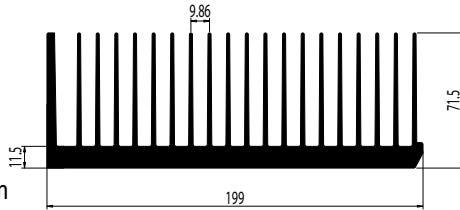
OS280

Wt: 5.9 Kg/m
 $R_{th,n}$: 0.76°C/W
 $R_{th,f}$: 0.26°C/W
 S.A.: 1062 mm²/mm



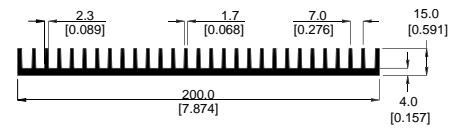
OSA48

Wt: 13.04 Kg/m
 $R_{th,n}$: 0.33°C/W
 $R_{th,f}$: 0.09°C/W
 S.A.: 2770 mm²/mm



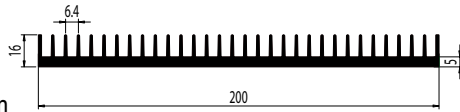
OS472

Wt: 3.95 Kg/m
 $R_{th,n}$: 0.85°C/W
 $R_{th,f}$: 0.29°C/W
 S.A.: 1016 mm²/mm



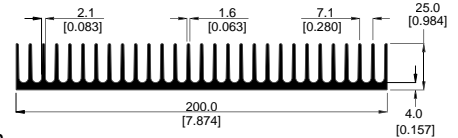
OSA72

Wt: 4.03 Kg/m
 $R_{th,n}$: 0.78°C/W
 $R_{th,f}$: 0.27°C/W
 S.A.: 1074 mm²/mm



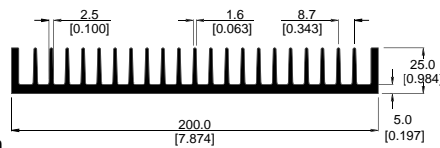
OK278

Wt: 5.52 Kg/m
 $R_{th,n}$: 0.64°C/W
 $R_{th,f}$: 0.21°C/W
 S.A.: 1532 mm²/mm



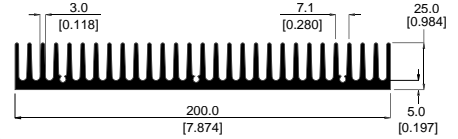
OS586 - EY

Wt: 5.53 Kg/m
 $R_{th,n}$: 0.63°C/W
 $R_{th,f}$: 0.23°C/W
 S.A.: 1277 mm²/mm



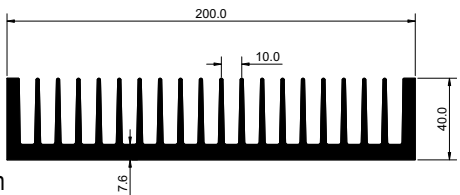
OSX68*

Wt: 6.6 Kg/m
 $R_{th,n}$: 0.71°C/W
 $R_{th,f}$: 0.2°C/W
 S.A.: 1477 mm²/mm



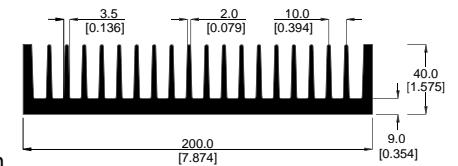
000EM

Wt: 8.80 Kg/m
 $R_{th,n}$: 0.48°C/W
 $R_{th,f}$: 0.17°C/W
 S.A.: 1657 mm²/mm



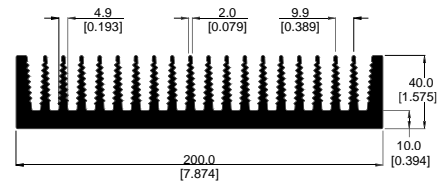
OS202

Wt: 9.55 Kg/m
 $R_{th,n}$: 0.49°C/W
 $R_{th,f}$: 0.17°C/W
 S.A.: 1630 mm²/mm



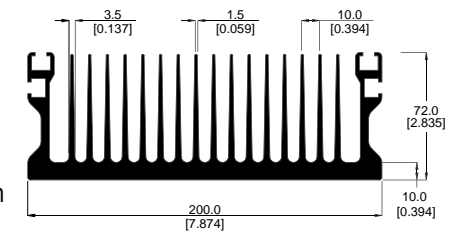
OS583 - EE*

Wt: 11.61 Kg/m
 $R_{th,n}$: 0.64°C/W
 $R_{th,f}$: 0.15°C/W
 S.A.: 1868 mm²/mm



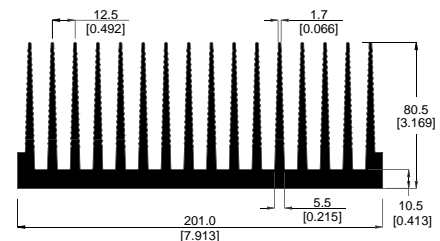
OS150 - EQ*

Wt: 15.24 Kg/m
 $R_{th,n}$: 0.36°C/W
 $R_{th,f}$: 0.11°C/W
 S.A.: 2655 mm²/mm



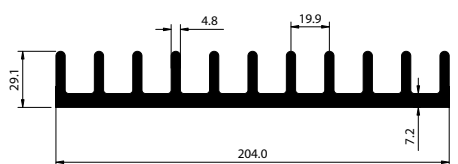
OS452

Wt: 17.32 Kg/m
 $R_{th,n}$: 0.3°C/W
 $R_{th,f}$: 0.11°C/W
 S.A.: 2668 mm²/mm



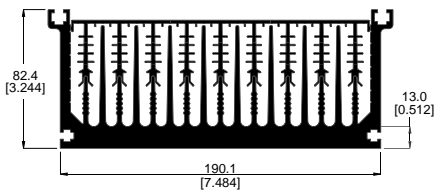
OS197

Wt: 7.05 Kg/m
 $R_{th,n}$: 0.69°C/W
 $R_{th,f}$: 0.31°C/W
 S.A.: 866 mm²/mm



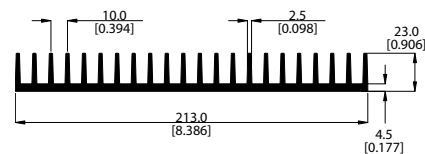
OS420*

Wt: 18.89 Kg/m
 $R_{th,n}$: 0.37°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 4000 mm²/mm



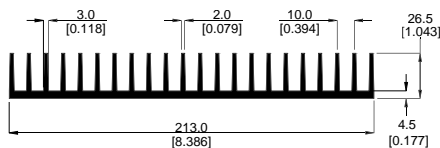
OSY24*

Wt: 5.34 Kg/m
 $R_{th,n}$: 0.59°C/W
 $R_{th,f}$: 0.24°C/W
 S.A.: 1227 mm²/mm



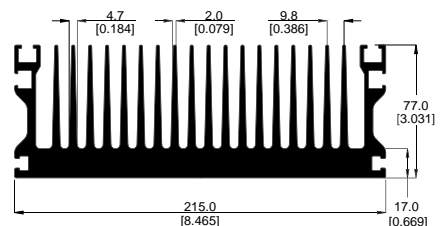
OS143

Wt: 6.05 Kg/m
 $R_{th,n}$: 0.56°C/W
 $R_{th,f}$: 0.21°C/W
 S.A.: 1380 mm²/mm



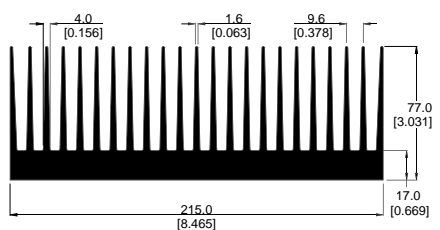
OS215

Wt: 21.86 Kg/m
 $R_{th,n}$: 0.33°C/W
 $R_{th,f}$: 0.1°C/W
 S.A.: 2609 mm²/mm



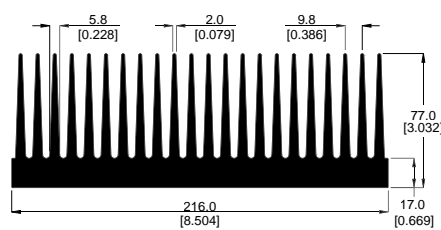
OS584 - EN

Wt: 20.32 Kg/m
 $R_{th,n}$: 0.36°C/W
 $R_{th,f}$: 0.1°C/W
 S.A.: 3136 mm²/mm



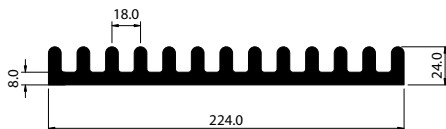
OS216

Wt: 22.00 Kg/m
 $R_{th,n}$: 0.32°C/W
 $R_{th,f}$: 0.09°C/W
 S.A.: 2963 mm²/mm



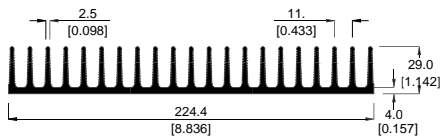
OS328

Wt: 9.14 Kg/m
 $R_{th,n}$: 0.69°C/W
 $R_{th,f}$: 0.26°C/W
 S.A.: 815 mm²/mm



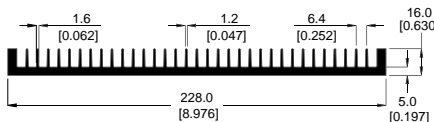
OS144

Wt: 6.44 Kg/m
 $R_{th,n}$: 0.44°C/W
 $R_{th,f}$: 0.17°C/W
 S.A.: 1825 mm²/mm



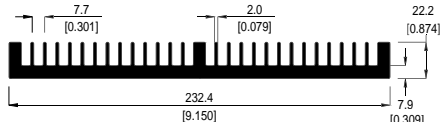
OSX58*

Wt: 4.82 Kg/m
 $R_{th,n}$: 0.73°C/W
 $R_{th,f}$: 0.25°C/W
 S.A.: 1184 mm²/mm



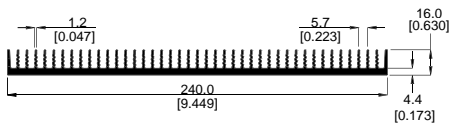
19709

Wt: 7.85 Kg/m
 $R_{th,n}$: 0.66°C/W
 $R_{th,f}$: 0.21°C/W
 S.A.: 1263 mm²/mm



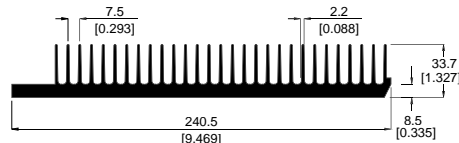
OS494*

Wt: 4.59 Kg/m
 $R_{th,n}$: 0.69°C/W
 $R_{th,f}$: 0.22°C/W
 S.A.: 1510 mm²/mm



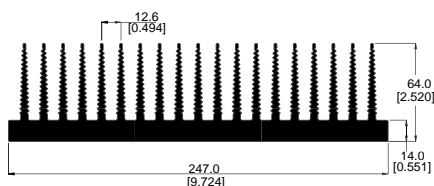
OSX76

Wt: 9.36 Kg/m
 $R_{th,n}$: 0.53°C/W
 $R_{th,f}$: 0.16°C/W
 S.A.: 1867 mm²/mm



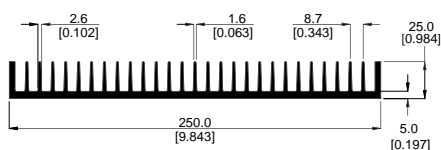
000EP

Wt: 18.32 Kg/m
 $R_{th,n}$: 0.31°C/W
 $R_{th,f}$: 0.11°C/W
 S.A.: 2999 mm²/mm



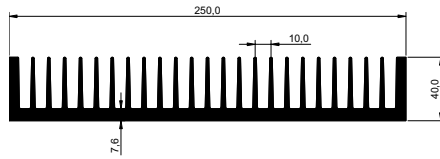
000EZ

Wt: 6.87 Kg/m
 $R_{th,n}$: 0.46°C/W
 $R_{th,f}$: 0.16°C/W
 S.A.: 1604 mm²/mm



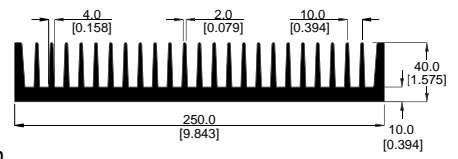
000EL

Wt: 10.83 Kg/m
 $R_{th,n}$: 0.39°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 2067 mm²/mm



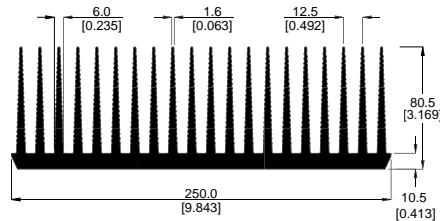
0S260

Wt: 13.45 Kg/m
 $R_{th,n}$: 0.41°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 2020 mm²/mm



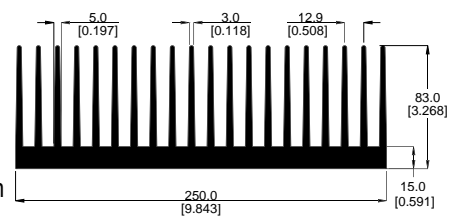
0S168

Wt: 21.34 Kg/m
 $R_{th,n}$: 0.24°C/W
 $R_{th,f}$: 0.09°C/W
 S.A.: 3335 mm²/mm



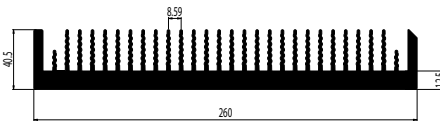
0S496*

Wt: 24.88 Kg/m
 $R_{th,n}$: 0.25°C/W
 $R_{th,f}$: 0.09°C/W
 S.A.: 3185 mm²/mm



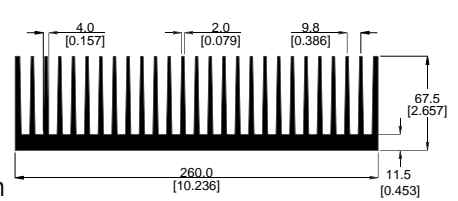
0SA47

Wt: 13.85 Kg/m
 $R_{th,n}$: 0.39°C/W
 $R_{th,f}$: 0.08°C/W
 S.A.: 2212 mm²/mm



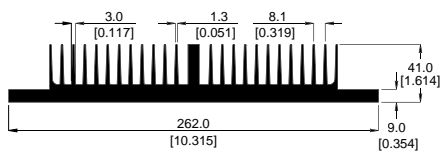
0S501*

Wt: 22.24 Kg/m
 $R_{th,n}$: 0.27°C/W
 $R_{th,f}$: 0.09°C/W
 S.A.: 3494 mm²/mm



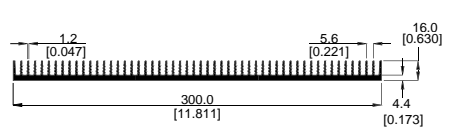
0SA08*

Wt: 12.78 Kg/m
 $R_{th,n}$: 0.47°C/W
 $R_{th,f}$: 0.15°C/W
 S.A.: 1913 mm²/mm



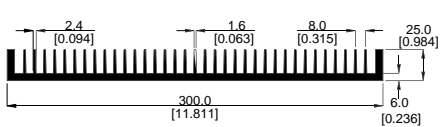
0S489

Wt: 5.80 Kg/m
 $R_{th,n}$: 0.55°C/W
 $R_{th,f}$: 0.18°C/W
 S.A.: 1879 mm²/mm



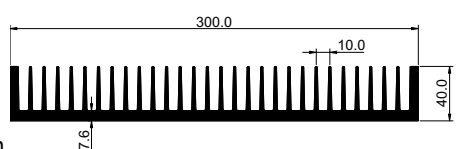
0S488*

Wt: 9.45 Kg/m
 $R_{th,n}$: 0.44°C/W
 $R_{th,f}$: 0.15°C/W
 S.A.: 1987 mm²/mm



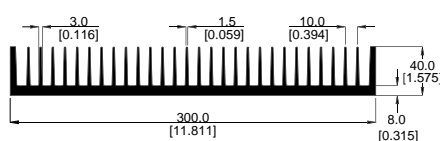
000EK*

Wt: 12.85 Kg/m
 $R_{th,n}$: 0.33°C/W
 $R_{th,f}$: 0.12°C/W
 S.A.: 2476 mm²/mm



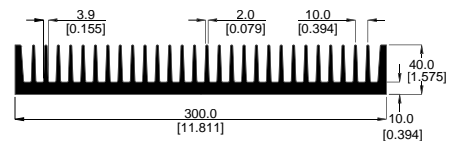
0S220

Wt: 13.13 Kg/m
 $R_{th,n}$: 0.32°C/W
 $R_{th,f}$: 0.12°C/W
 S.A.: 2438 mm²/mm



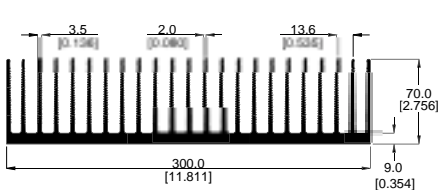
0S487 - EF

Wt: 15.73 Kg/m
 $R_{th,n}$: 0.35°C/W
 $R_{th,f}$: 0.11°C/W
 S.A.: 2313 mm²/mm



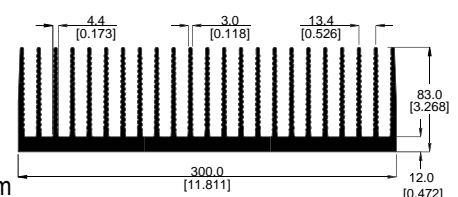
0S525

Wt: 16.97 Kg/m
 $R_{th,n}$: 0.22°C/W
 $R_{th,f}$: 0.09°C/W
 S.A.: 3720 mm²/mm



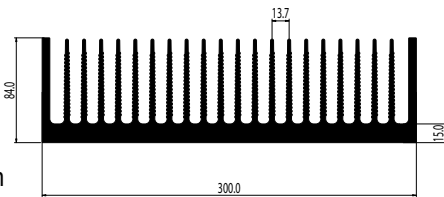
0S245 - EA

Wt: 22.95 Kg/m
 $R_{th,n}$: 0.21°C/W
 $R_{th,f}$: 0.08°C/W
 S.A.: 3984 mm²/mm



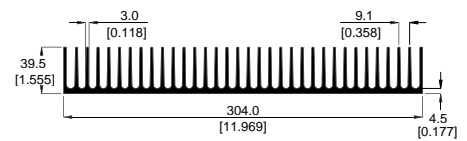
BS064

Wt: 28.44 Kg/m
 $R_{th,n}$: 0.21°C/W
 $R_{th,f}$: 0.08°C/W
 S.A.: 3735 mm²/mm



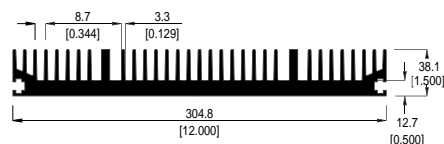
OSY16

Wt: 12.25 Kg/m
 $R_{th,n}$: 0.31°C/W
 $R_{th,f}$: 0.11°C/W
 S.A.: 2848 mm²/mm



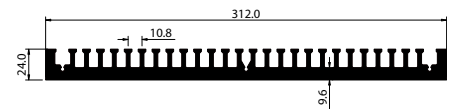
20747

Wt: 17.38 Kg/m
 $R_{th,n}$: 0.39°C/W
 $R_{th,f}$: 0.12°C/W
 S.A.: 2241 mm²/mm



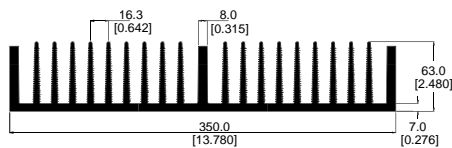
05199*

Wt: 12.37 Kg/m
 $R_{th,n}$: 0.44°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 1547 mm²/mm



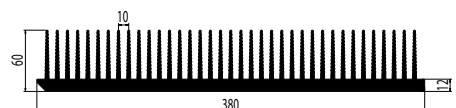
000ES

Wt: 22.78 Kg/m
 $R_{th,n}$: 0.24°C/W
 $R_{th,f}$: 0.1°C/W
 S.A.: 3540 mm²/mm



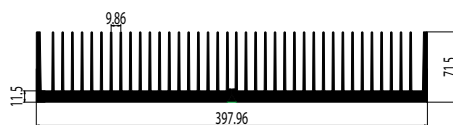
0S589

Wt: 26.48 Kg/m
 $R_{th,n}$: 0.21°C/W
 $R_{th,f}$: 0.06°C/W
 S.A.: 4405 mm²/mm



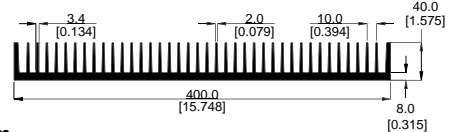
0DA48

Wt: 26.05 Kg/m
 $R_{th,n}$: 0.16°C/W
 $R_{th,f}$: 0.05°C/W



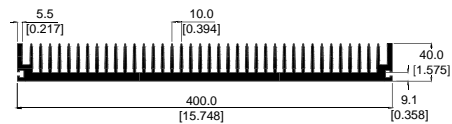
0S142

Wt: 18.41 Kg/m
 $R_{th,n}$: 0.25°C/W
 $R_{th,f}$: 0.08°C/W
 S.A.: 3250 mm²/mm



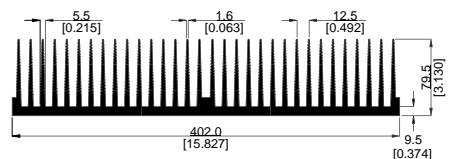
0S430*

Wt: 19.88 Kg/m
 $R_{th,n}$: 0.23°C/W
 $R_{th,f}$: 0.07°C/W
 S.A.: 3965 mm²/mm



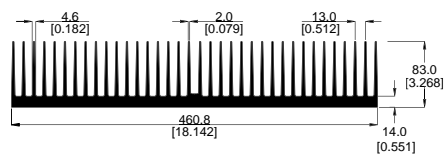
0D452

Wt: 34.64 Kg/m
 $R_{th,n}$: 0.15°C/W
 $R_{th,f}$: 0.06°C/W
 S.A.: 5313 mm²/mm



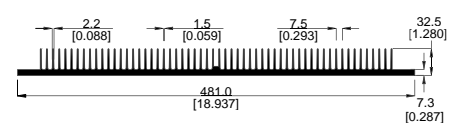
0DY55

Wt: 44.4 Kg/m
 $R_{th,n}$: 0.13°C/W
 $R_{th,f}$: 0.05°C/W
 S.A.: 5727 mm²/mm



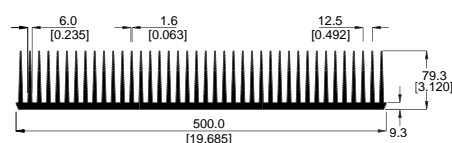
0DX76

Wt: 18.71 Kg/m
 $R_{th,n}$: 0.27°C/W
 $R_{th,f}$: 0.08°C/W
 S.A.: 3717 mm²/mm



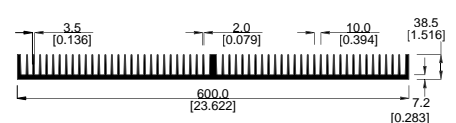
0D168

Wt: 42.68 Kg/m
 $R_{th,n}$: 0.12°C/W
 $R_{th,f}$: 0.05°C/W
 S.A.: 6633 mm²/mm



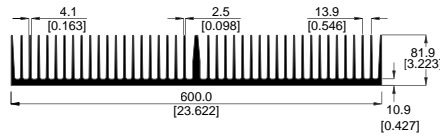
0D456

Wt: 29.23 Kg/m
 $R_{th,n}$: 0.17°C/W
 $R_{th,f}$: 0.06°C/W
 S.A.: 4703 mm²/mm



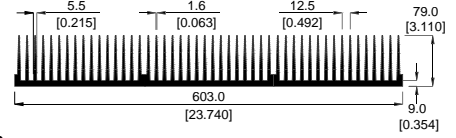
0D245

Wt: 45.89 Kg/m
 $R_{th,n}$: 0.11°C/W
 $R_{th,f}$: 0.04°C/W
 S.A.: 7096 mm²/mm



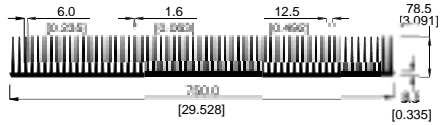
0T452

Wt: 51.96 Kg/m
 $R_{th,n}$: 0.1°C/W
 $R_{th,f}$: 0.04°C/W
 S.A.: 7949 mm²/mm



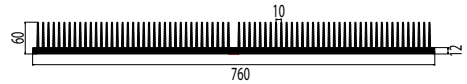
0T168

Wt: 64.02 Kg/m
 $R_{th,n}$: 0.08°C/W
 $R_{th,f}$: 0.03°C/W
 S.A.: 9935 mm²/mm



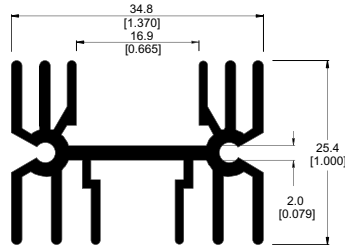
0D589

Wt: 48.64 Kg/m
 $R_{th,n}$: 0.11°C/W
 $R_{th,f}$: 0.04°C/W



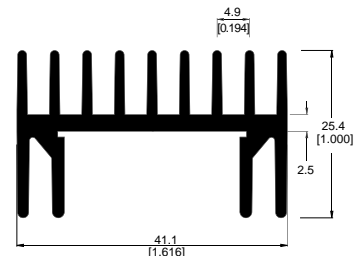
000BW

Wt: 0.72 Kg/m
 $R_{th,n}$: 3.5°C/W
 $R_{th,f}$: 1.01°C/W
 S.A.: 348 mm²/mm



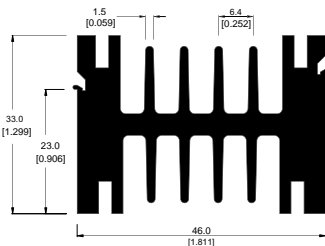
20355

Wt: 0.92 Kg/m
 $R_{th,n}$: 3.13°C/W
 $R_{th,f}$: 0.97°C/W
 S.A.: 353 mm²/mm



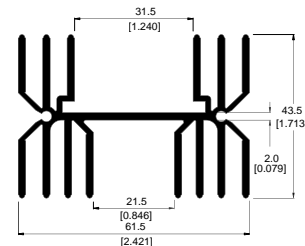
000KT

Wt: 2.10 Kg/m
 $R_{th,n}$: 2.15°C/W
 $R_{th,f}$: 0.69°C/W
 S.A.: 456 mm²/mm



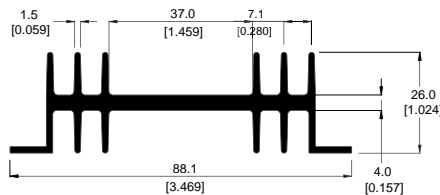
000SP

Wt: 1.80 Kg/m
 $R_{th,n}$: 1.53°C/W
 $R_{th,f}$: 0.49°C/W
 S.A.: 708 mm²/mm



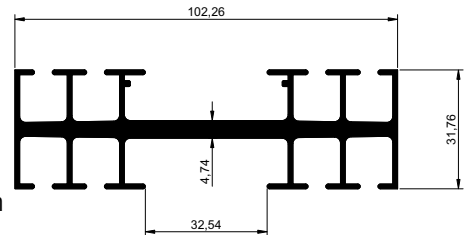
0S029

Wt: 1.48 Kg/m
 $R_{th,n}$: 1.79°C/W
 $R_{th,f}$: 0.84°C/W
 S.A.: 555 mm²/mm



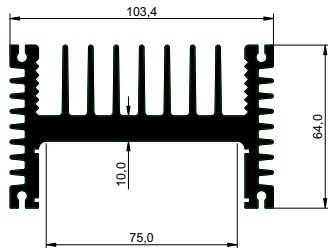
0000Q*

Wt: 2.11 Kg/m
 $R_{th,n}$: 1.13°C/W
 $R_{th,f}$: 0.53°C/W
 S.A.: 697 mm²/mm



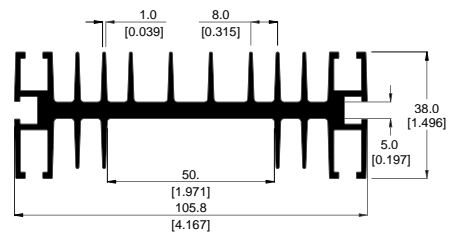
000KB*

Wt: 5.79 Kg/m
 $R_{th,n}$: 0.794°C/W
 $R_{th,f}$: 0.33°C/W
 S.A.: 1050 mm²/mm



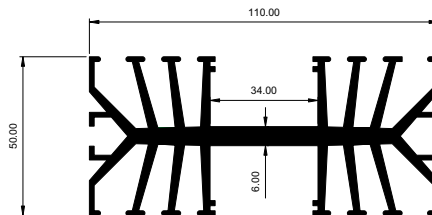
0S063

Wt: 2.81 Kg/m
 $R_{th,n}$: 0.98°C/W
 $R_{th,f}$: 0.4°C/W
 S.A.: 857 mm²/mm



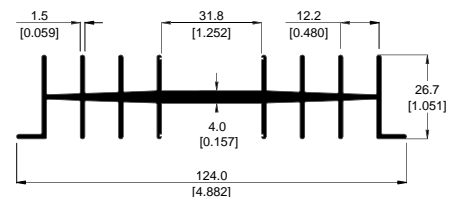
0000L*

Wt: 2.29 Kg/m
 $R_{th,n}$: 0.87°C/W
 $R_{th,f}$: 0.40°C/W
 S.A.: 1,138 mm²/mm



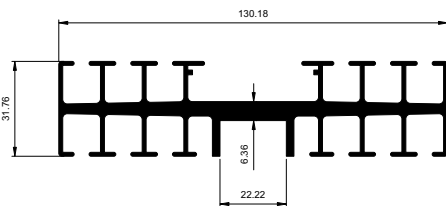
000PA

Wt: 1.73 Kg/m
 $R_{th,n}$: 1.03°C/W
 $R_{th,f}$: 0.44°C/W
 S.A.: 624 mm²/mm



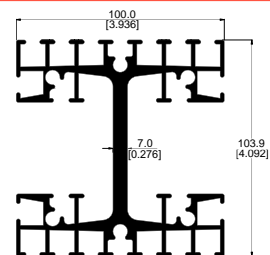
0000W

Wt: 3.00 Kg/m
 $R_{th,n}$: 0.89°C/W
 $R_{th,f}$: 0.42°C/W
 S.A.: 949 mm²/mm



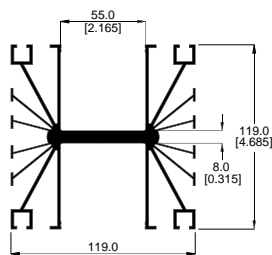
000RB

Wt: 5.35 Kg/m
 $R_{th,n}$: 0.58°C/W
 $R_{th,f}$: 0.25°C/W
 S.A.: 1521 mm²/mm



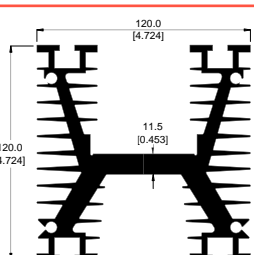
OS148*

Wt: 6.40 Kg/m
 $R_{th,n}$: 0.43°C/W
 $R_{th,f}$: 0.26°C/W
 S.A.: 1890 mm²/mm



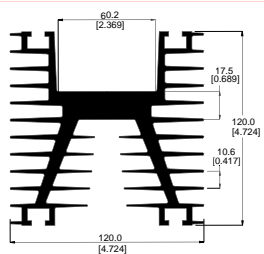
000NV

Wt: 11.48 Kg/m
 $R_{th,n}$: 0.33°C/W
 $R_{th,f}$: 0.12°C/W
 S.A.: 947 mm²/mm



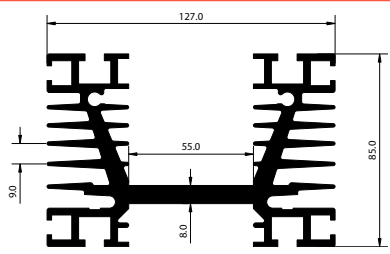
OS105*

Wt: 11.40 Kg/m
 $R_{th,n}$: 0.4°C/W
 $R_{th,f}$: 0.15°C/W
 S.A.: 2010 mm²/mm



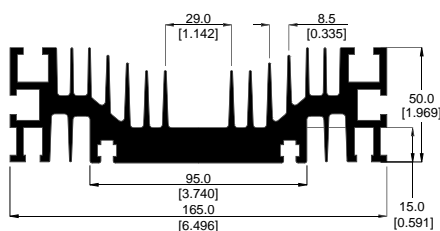
000SV*

Wt: 7.90 Kg/m
 $R_{th,n}$: 0.75°C/W
 $R_{th,f}$: 0.34°C/W
 S.A.: 1567 mm²/mm



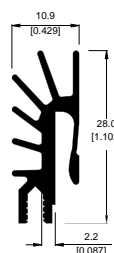
OS124

Wt: 9.05 Kg/m
 $R_{th,n}$: 0.61°C/W
 $R_{th,f}$: 0.2°C/W
 S.A.: 1432 mm²/mm



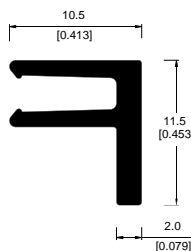
OS523*

Wt: 0.33 Kg/m
 $R_{th,n}$: 2.34°C/W
 $R_{th,f}$: 0.87°C/W
 S.A.: 160 mm²/mm



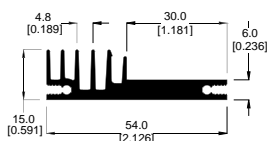
OS530

Wt: 0.13 Kg/m
 S.A.: 60 mm²/mm



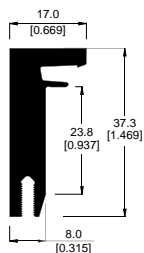
OS565

Wt: 0.90 Kg/m
 S.A.: 264 mm²/mm



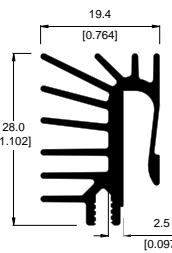
OSY76

Wt: 0.84 Kg/m
 S.A.: 143 mm²/mm



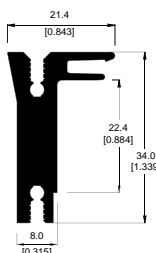
OS516

Wt: 0.50 Kg/m
 $R_{th,n}$: 2.15°C/W
 $R_{th,f}$: 0.73°C/W
 S.A.: 283 mm²/mm



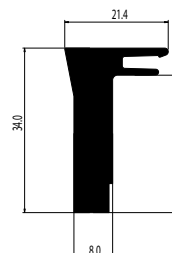
OS554*

Wt: 0.74 Kg/m
 S.A.: 159 mm²/mm



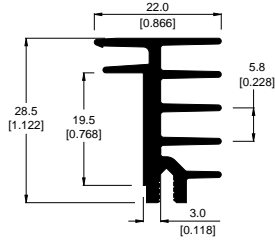
BS021

Wt: 0.85 Kg/m
 S.A.: 122 mm²/mm



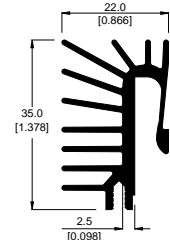
OS533

Wt: 0.48 Kg/m
 $R_{th,n}$: 4.12°C/W
 $R_{th,f}$: 1.68°C/W
 S.A.: 200 mm²/mm



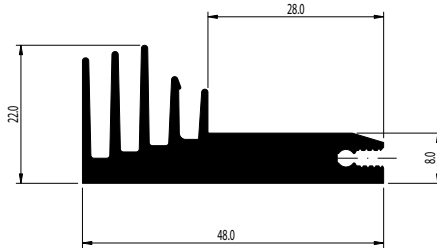
OS524

Wt: 0.63 Kg/m
 $R_{th,n}$: 1.74°C/W
 $R_{th,f}$: 0.58°C/W
 S.A.: 323 mm²/mm



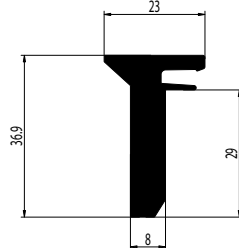
BS075

Wt: 1.08 Kg/m
 $R_{th,n}$: 3.42°C/W
 $R_{th,f}$: 1.57°C/W



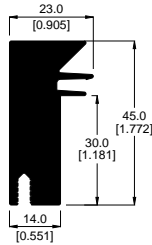
BS011

Wt: 0.95 Kg/m



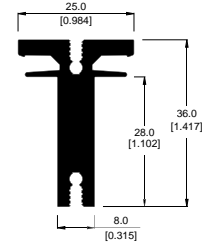
OS521

Wt: 1.75 Kg/m
 S.A.: 178 mm²/mm



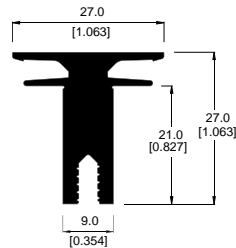
OS556

Wt: 0.89 Kg/m
 S.A.: 181 mm²/mm



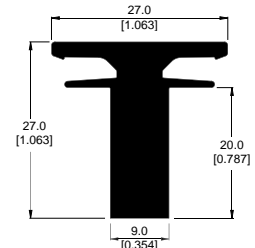
OS529

Wt: 0.69 Kg/m
 S.A.: 154 mm²/mm



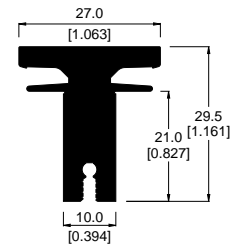
OS581

Wt: 0.81 Kg/m
 S.A.: 135 mm²/mm



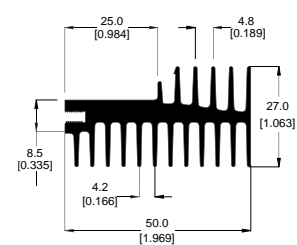
OS547

Wt: 0.95 Kg/m
 S.A.: 157 mm²/mm



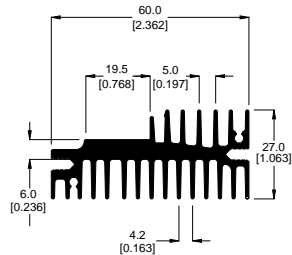
OS506

Wt: 1.38 Kg/m
 $R_{th,n}$: 2.46°C/W
 $R_{th,f}$: 0.65°C/W
 S.A.: 500 mm²/mm



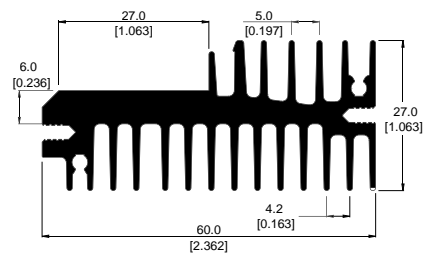
OS526

Wt: 1.67 Kg/m
 $R_{th,n}$: 2.29°C/W
 $R_{th,f}$: 0.56°C/W
 S.A.: 596 mm²/mm



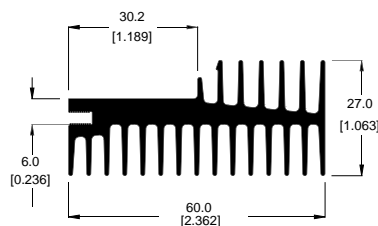
OS579

Wt: 1.73 Kg/m
 $R_{th,n}$: 2.3°C/W
 $R_{th,f}$: 0.59°C/W
 S.A.: 582 mm²/mm



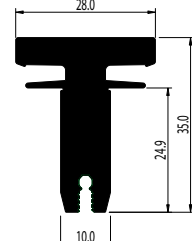
OSY54

Wt: 1.74 Kg/m
 $R_{th,n}$: 2.27°C/W
 $R_{th,f}$: 0.55°C/W
 S.A.: 604 mm²/mm



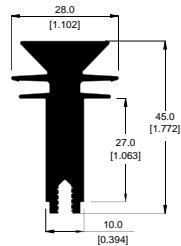
BS077

Wt: 1.18 Kg/m



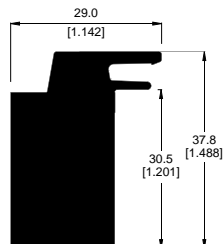
OS522

Wt: 1.39 Kg/m
S.A.: 212 mm²/mm



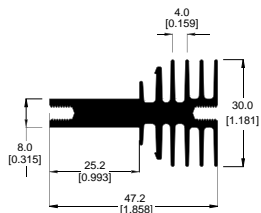
OSY77

Wt: 1.89 Kg/m
S.A.: 140 mm²/mm



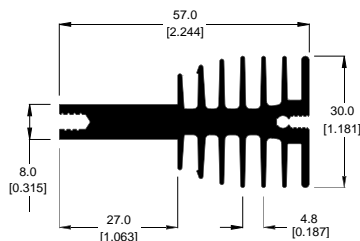
OS507

Wt: 1.23 Kg/m
 $R_{th,n}$: 3.02°C/W
 $R_{th,f}$: 0.84°C/W
S.A.: 373 mm²/mm



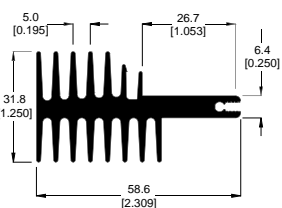
OS555

Wt: 1.57 Kg/m
 $R_{th,n}$: 2.42°C/W
 $R_{th,f}$: 0.75°C/W
S.A.: 438 mm²/mm



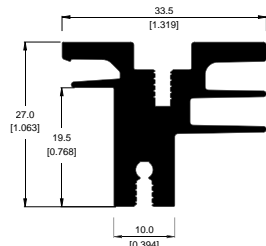
OS550

Wt: 1.78 Kg/m
 $R_{th,n}$: 2.35°C/W
 $R_{th,f}$: 0.67°C/W
S.A.: 483 mm²/mm



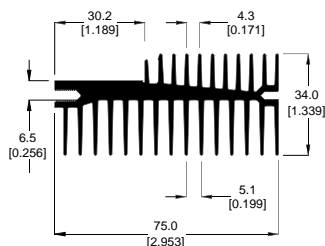
OS567

Wt: 0.94 Kg/m
 $R_{th,n}$: 4.16°C/W
 $R_{th,f}$: 1.49°C/W
S.A.: 215 mm²/mm



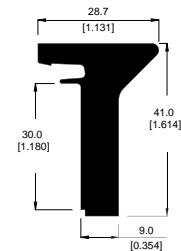
OS505

Wt: 2.48 Kg/m
 $R_{th,n}$: 1.45°C/W
 $R_{th,f}$: 0.39°C/W
S.A.: 949 mm²/mm



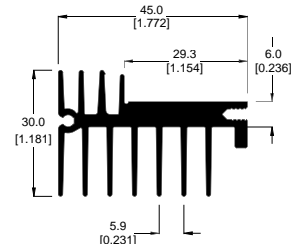
OSY67

Wt: 1.32 Kg/m
S.A.: 142 mm²/mm



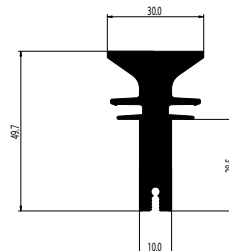
OS515

Wt: 1.18 Kg/m
 $R_{th,n}$: 2.33°C/W
 $R_{th,f}$: 0.76°C/W
S.A.: 425 mm²/mm



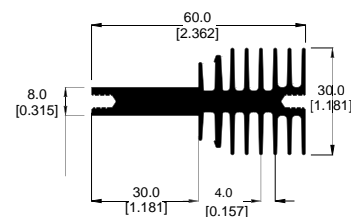
BS019

Wt: 1.72 Kg/m



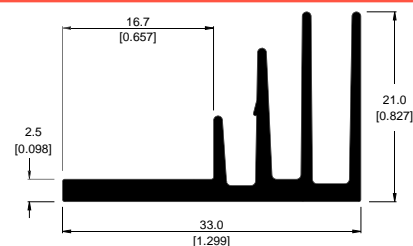
OS520

Wt: 1.66 Kg/m
 $R_{th,n}$: 2.49°C/W
 $R_{th,f}$: 0.74°C/W
S.A.: 488 mm²/mm



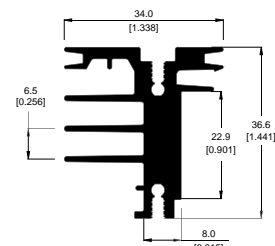
OS569

Wt: 0.41 Kg/m
 $R_{th,n}$: 4.38°C/W
 $R_{th,f}$: 2.1°C/W
S.A.: 187 mm²/mm



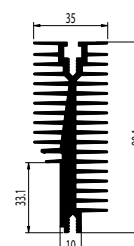
OS559

Wt: 1.10 Kg/m
 $R_{th,n}$: 2.7°C/W
 $R_{th,f}$: 0.93°C/W
S.A.: 314 mm²/mm



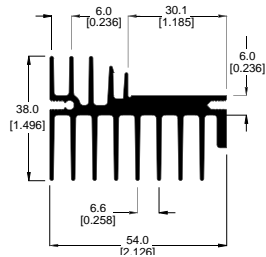
BS005

Wt: 3.09 Kg/m
 $R_{th,n}$: 1.35°C/W
 $R_{th,f}$: 0.32°C/W
S.A.: 1063 mm²/mm



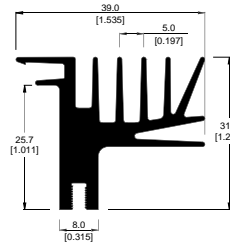
OS518

Wt: 1.64 Kg/m
 $R_{th,n}$: 1.71°C/W
 $R_{th,f}$: 0.57°C/W
 S.A.: 582 mm²/mm



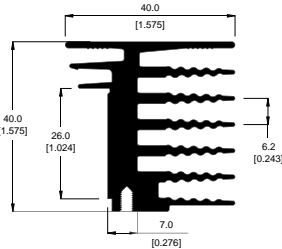
OS508

Wt: 0.99 Kg/m
 $R_{th,n}$: 3.1°C/W
 $R_{th,f}$: 1.02°C/W
 S.A.: 310 mm²/mm



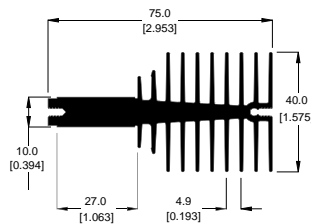
OS512

Wt: 1.59 Kg/m
 $R_{th,n}$: 2.12°C/W
 $R_{th,f}$: 0.64°C/W
 S.A.: 476 mm²/mm



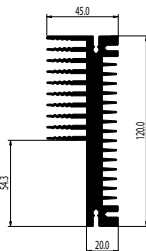
OS517

Wt: 2.57 Kg/m
 $R_{th,n}$: 1.55°C/W
 $R_{th,f}$: 0.41°C/W
 S.A.: 783 mm²/mm



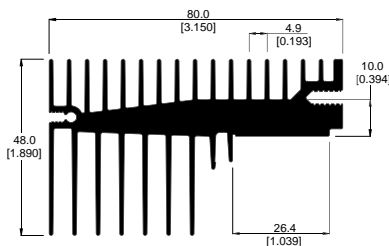
BS002

Wt: 5.46 Kg/m
 $R_{th,n}$: 0.92°C/W
 $R_{th,f}$: 0.26°C/W
 S.A.: 1132 mm²/mm



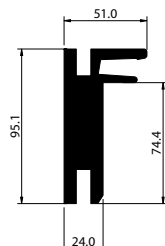
OS552

Wt: 3.14 Kg/m
 $R_{th,n}$: 1.06°C/W
 $R_{th,f}$: 0.34°C/W
 S.A.: 1010 mm²/mm



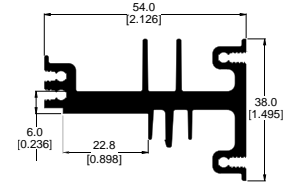
OS364

Wt: 5.85 Kg/m
 S.A.: 407 mm²/mm



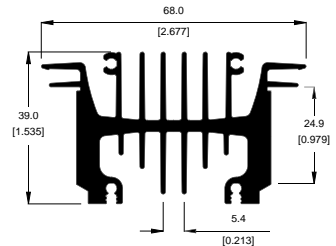
OS577

Wt: 1.45 Kg/m
 S.A.: 381 mm²/mm



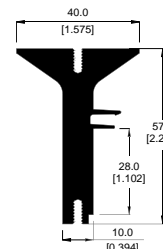
OS527

Wt: 2.21 Kg/m
 $R_{th,n}$: 1.64°C/W
 $R_{th,f}$: 0.49°C/W
 S.A.: 670 mm²/mm



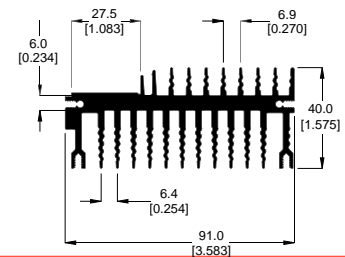
OS562

Wt: 2.02 Kg/m
 S.A.: 247 mm²/mm



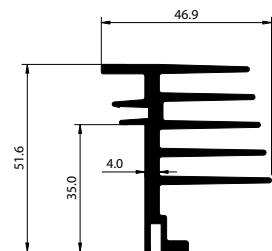
OSA37

Wt: 3.62 Kg/m
 $R_{th,n}$: 1.1°C/W
 $R_{th,f}$: 0.31°C/W
 S.A.: 1063 mm²/mm



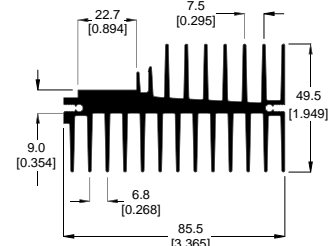
OS259*

Wt: 1.47 Kg/m
 $R_{th,n}$: 1.90°C/W
 $R_{th,f}$: 0.77°C/W
 S.A.: 464 mm²/mm



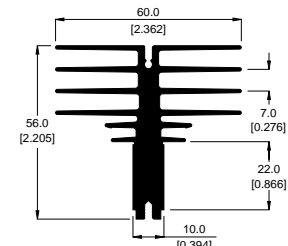
OSA36

Wt: 3.45 Kg/m
 $R_{th,n}$: 0.93°C/W
 $R_{th,f}$: 0.29°C/W
 S.A.: 1153 mm²/mm



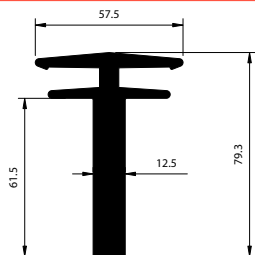
OS528

Wt: 2.15 Kg/m
 $R_{th,n}$: 1.42°C/W
 $R_{th,f}$: 0.52°C/W
 S.A.: 633 mm²/mm



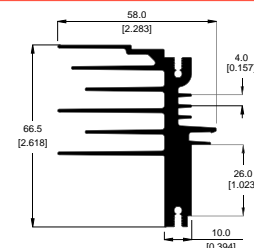
05475

Wt: 3.40 Kg/m
S.A.: 342 mm²/mm



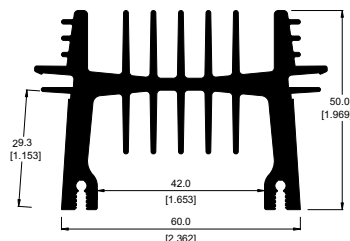
05560

Wt: 2.37 Kg/m
 $R_{th,n}$: 1.25°C/W
 $R_{th,f}$: 0.5°C/W
S.A.: 648 mm²/mm



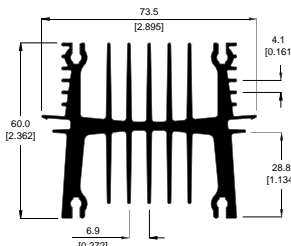
05A66

Wt: 2.75 Kg/m
 $R_{th,n}$: 1.30°C/W
 $R_{th,f}$: 0.46°C/W
S.A.: 721 mm²/mm



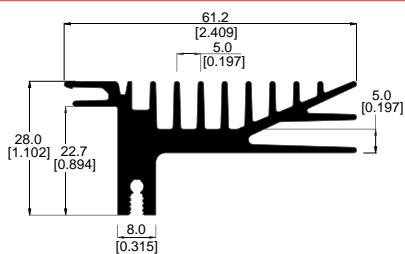
05509

Wt: 3.42 Kg/m
 $R_{th,n}$: 1.1°C/W
 $R_{th,f}$: 0.36°C/W
S.A.: 1002 mm²/mm



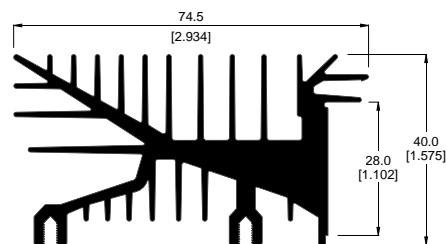
05553*

Wt: 1.32 Kg/m
 $R_{th,n}$: 2.5°C/W
 $R_{th,f}$: 0.85°C/W
S.A.: 387 mm²/mm



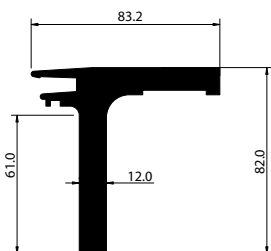
05510

Wt: 2.53 Kg/m
 $R_{th,n}$: 1.23°C/W
 $R_{th,f}$: 0.42°C/W
S.A.: 809 mm²/mm



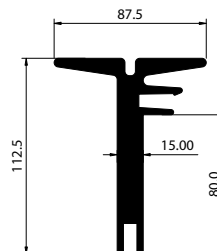
05490*

Wt: 462 Kg/m
S.A.: 360 mm²/mm



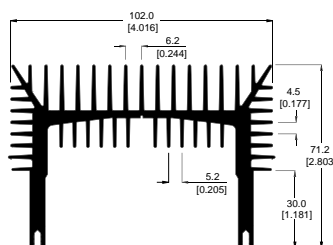
05423*

Wt: 5.83 Kg/m
S.A.: 514 mm²/mm



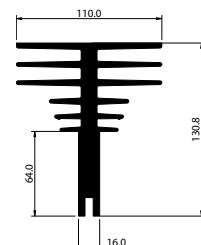
05511

Wt: 4.64 Kg/m
 $R_{th,n}$: 0.81°C/W
 $R_{th,f}$: 0.28°C/W
S.A.: 1410 mm²/mm



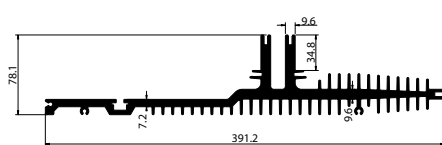
05248*

Wt: 8.90 Kg/m
 $R_{th,n}$: 0.67°C/W
 $R_{th,f}$: 0.34°C/W
S.A.: 1102 mm²/mm



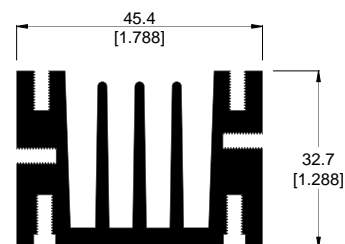
05340*

Wt: 14.66 Kg/m
 $R_{th,n}$: 0.45°C/W
 $R_{th,f}$: 0.28°C/W
S.A.: 2187 mm²/mm



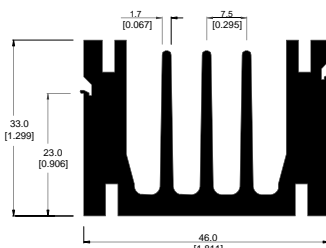
000KD

Wt: 1.70 Kg/m
 $R_{th,n}$: 2.11°C/W
 $R_{th,f}$: 0.83°C/W
S.A.: 525 mm²/mm



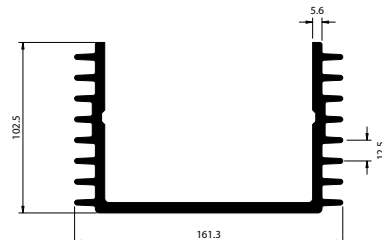
000KV

Wt: 2.10 Kg/m
 $R_{th,n}$: 2.08°C/W
 $R_{th,f}$: 0.77°C/W
S.A.: 423 mm²/mm



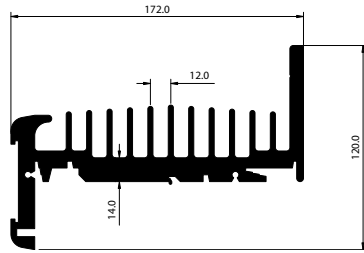
04939*

Wt: 7.18 Kg/m
 $R_{th,n}$: 0.72°C/W
 $R_{th,f}$: 0.42°C/W
S.A.: 1001 mm²/mm



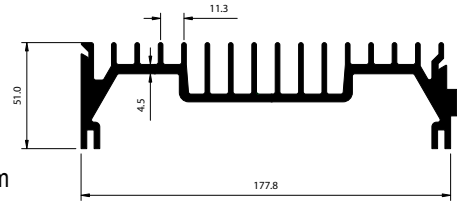
05092

Wt: 11.50 Kg/m
 $R_{th,n}$: 0.57°C/W
 $R_{th,f}$: 0.30°C/W
 S.A.: 1369 mm²/mm



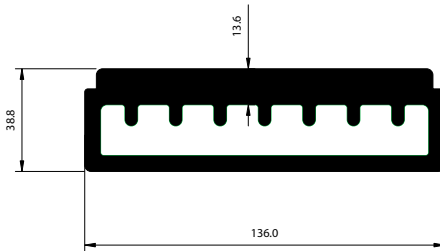
05077*

Wt: 5.52 Kg/m
 $R_{th,n}$: 0.78°C/W
 $R_{th,f}$: 0.42°C/W
 S.A.: 1109 mm²/mm



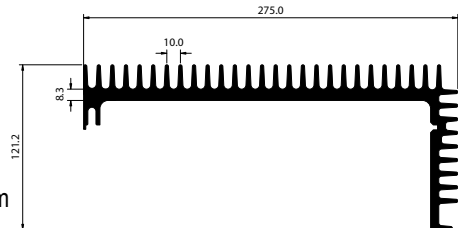
05381

Wt: 8.32 Kg/m
 $R_{th,n}$: 0.93°C/W
 $R_{th,f}$: 0.46°C/W
 S.A.: 718 mm²/mm



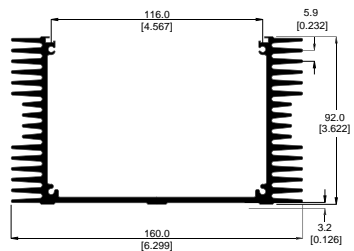
04899

Wt: 13.35 Kg/m
 $R_{th,n}$: 0.40°C/W
 $R_{th,f}$: 0.17°C/W
 S.A.: 1850 mm²/mm



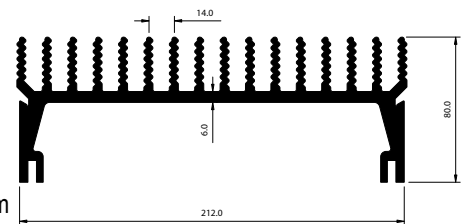
0S160*

Wt: 5.54 Kg/m
 $R_{th,n}$: 0.78°C/W
 $R_{th,f}$: 0.25°C/W
 S.A.: 1553 mm²/mm



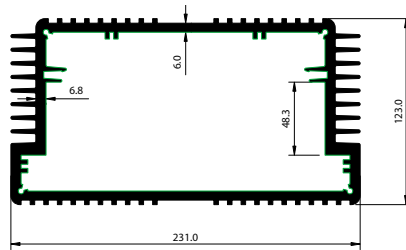
05263

Wt: 10.70 Kg/m
 $R_{th,n}$: 0.61°C/W
 $R_{th,f}$: 0.35°C/W
 S.A.: 1778 mm²/mm



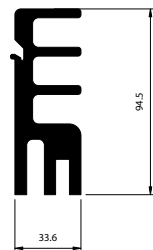
05303

Wt: 14.80 Kg/m
 $R_{th,n}$: 0.51°C/W
 $R_{th,f}$: 0.28°C/W
 S.A.: 2254 mm²/mm



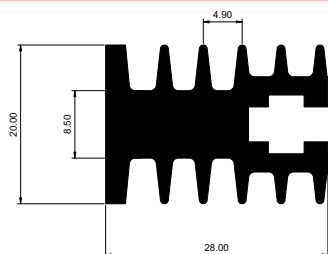
04801

Wt: 4.50 Kg/m
 $R_{th,n}$: 1.30°C/W
 $R_{th,f}$: 0.51°C/W
 S.A.: 492 mm²/mm



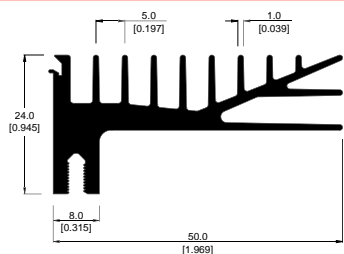
000KF*

Wt: 0.87 Kg/m
 $R_{th,n}$: 5°C/W
 $R_{th,f}$: 1.35°C/W
 S.A.: 203 mm²/mm



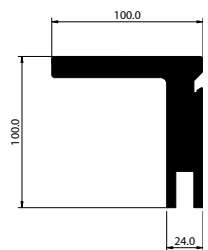
0SY57

Wt: 0.94 Kg/m
 $R_{th,n}$: 1.9°C/W
 $R_{th,f}$: 1.04°C/W
 S.A.: 340 mm²/mm



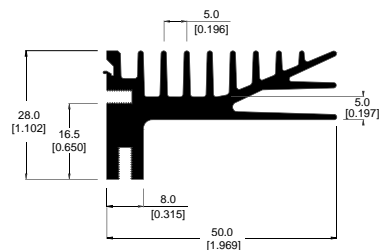
05131*

Wt: 8.43 Kg/m
 S.A.: 457 mm²/mm



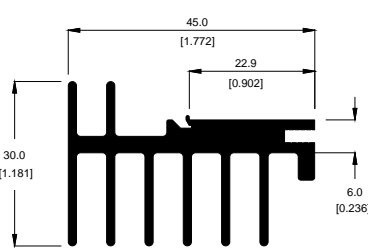
000KL

Wt: 1.19 Kg/m
 $R_{th,n}$: 2.75°C/W
 $R_{th,f}$: 0.85°C/W
 S.A.: 379 mm²/mm



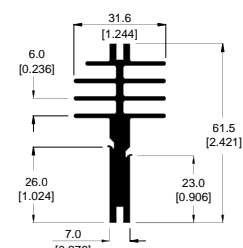
000KM

Wt: 1.22 Kg/m
 $R_{th,n}$: 1.82°C/W
 $R_{th,f}$: 1.02°C/W
 S.A.: 363 mm²/mm



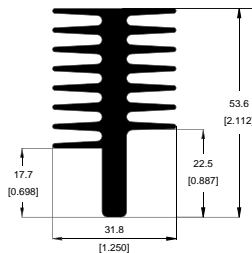
000KP

Wt: 1.30 Kg/m
 $R_{th,n}$: 2.24°C/W
 $R_{th,f}$: 0.91°C/W
 S.A.: 375 mm²/mm



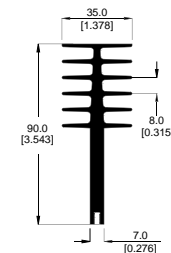
OS453*

Wt: 1.84 Kg/m
 $R_{th,n}$: 2.5°C/W
 $R_{th,f}$: 0.65°C/W
 S.A.: 461 mm²/mm



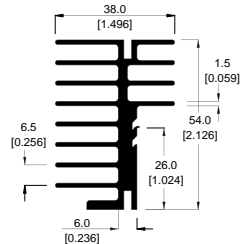
OS493*

Wt: 2.39 Kg/m
 $R_{th,n}$: 1.4°C/W
 $R_{th,f}$: 0.52°C/W
 S.A.: 884 mm²/mm



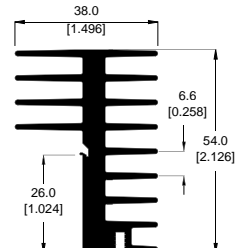
000KR

Wt: 1.63 Kg/m
 $R_{th,n}$: 1.71°C/W
 $R_{th,f}$: 0.59°C/W
 S.A.: 582 mm²/mm



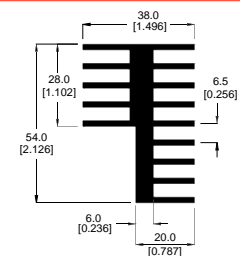
OS460

Wt: 1.85 Kg/m
 $R_{th,n}$: 1.91°C/W
 $R_{th,f}$: 0.62°C/W
 S.A.: 496 mm²/mm



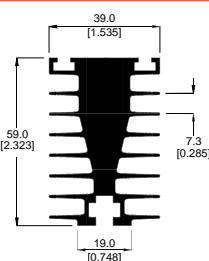
OS464

Wt: 2.20 Kg/m
 $R_{th,n}$: 1.9°C/W
 $R_{th,f}$: 0.57°C/W
 S.A.: 529 mm²/mm



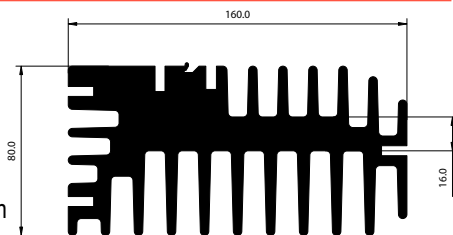
OS075*

Wt: 2.80 Kg/m
 $R_{th,n}$: 1.38°C/W
 $R_{th,f}$: 0.42°C/W
 S.A.: 433 mm²/mm



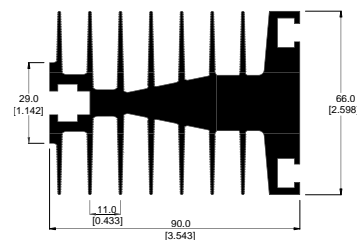
05080*

Wt: 17.87 Kg/m
 $R_{th,n}$: 0.54°C/W
 $R_{th,f}$: 0.23°C/W
 S.A.: 1587 mm²/mm



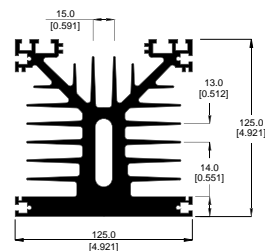
000KC

Wt: 6.59 Kg/m
 $R_{th,n}$: 0.67°C/W
 $R_{th,f}$: 0.24°C/W
 S.A.: 1338 mm²/mm



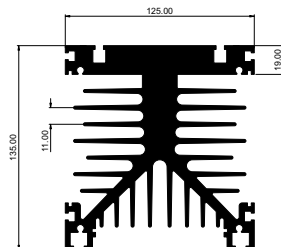
OS147

Wt: 15.55 Kg/m
 $R_{th,n}$: 0.37°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 1754 mm²/mm



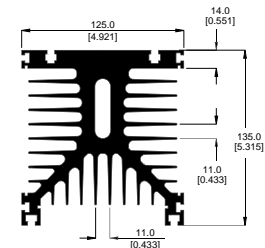
0000D

Wt: 17.70 Kg/m
 $R_{th,n}$: 0.41°C/W
 $R_{th,f}$: 0.18°C/W
 S.A.: 2377 mm²/mm



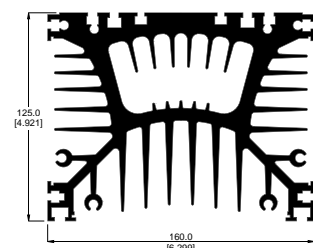
OS110 - DB

Wt: 17.6 Kg/m
 $R_{th,n}$: 0.35°C/W
 $R_{th,f}$: 0.14°C/W
 S.A.: 2440 mm²/mm

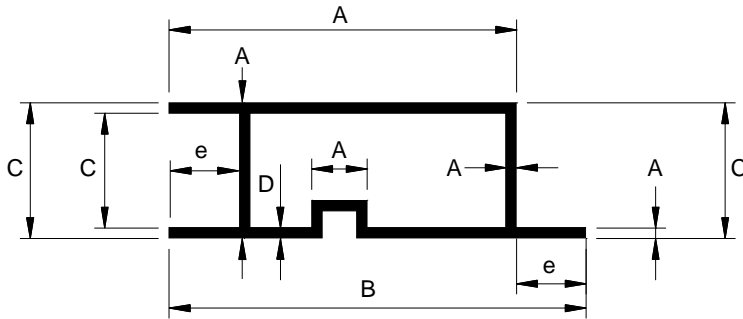


OS157

Wt: 19.99 Kg/m
 $R_{th,n}$: 0.31°C/W
 $R_{th,f}$: 0.12°C/W
 S.A.: 2374 mm²/mm



EXTRUSION STANDARD TOLERANCES UNI 3879 (very similar to DIN 1748)



(1) for **A** or **B** = 300 mm
tolerances supplied by customer

(2) for **e** = 5 mm, tolerances equal **B**

A (or B) mm	Tolerances mm
$< \mathbf{A} \text{ (or } \mathbf{B}) = 2$	± 0.15
$2 < \mathbf{A} \leq 3$	± 0.20
$3 < \mathbf{A} \leq 5$	± 0.25
$5 < \mathbf{A} \leq 10$	± 0.30
$10 < \mathbf{A} \leq 15$	± 0.35
$15 < \mathbf{A} \leq 30$	± 0.40
$30 < \mathbf{A} < 50$	± 0.50
$50 < \mathbf{A} < 80$	± 0.80
$80 < \mathbf{A} < 100$	± 1.00
$100 < \mathbf{A} \leq 120$	± 1.20
$120 < \mathbf{A} \leq 150$	± 1.30
$150 < \mathbf{A} \leq 200$	± 1.50
$200 < \mathbf{A} \leq 250$	± 1.80
$250 < \mathbf{A} \leq 300$	± 2.10

D mm	Tolerances mm
< 2.5	± 0.25
$= 2.5$	$\pm 10\%$

C mm	Tolerances mm			
	$5 < e \leq 15^{(2)}$	$15 < e \leq 30$	$30 < e \leq 60$	$e \leq 60$
C = 5	± 0.30	± 0.35	± 0.40	± 0.50
$5 < \mathbf{C} < 10$	± 0.35	± 0.40	± 0.45	± 0.55
$10 < \mathbf{C} < 15$	± 0.40	± 0.45	± 0.50	± 0.65
$15 < \mathbf{C} \leq 20$	± 0.45	± 0.50	± 0.60	± 0.75
$20 < \mathbf{C} \leq 30$	± 0.50	± 0.60	± 0.75	± 0.90
$30 < \mathbf{C} < 50$	± 0.60	± 0.75	± 0.90	± 1.30
$50 < \mathbf{C} < 70$	± 0.85	± 0.95	± 1.10	± 1.45
$70 < \mathbf{C} \leq 100$	± 1.05	± 1.10	± 1.25	± 1.65
$100 < \mathbf{C} \leq 150$	± 1.35	± 1.40	± 1.65	± 2.20
$150 < \mathbf{C} \leq 200$	± 1.50	± 1.60	± 2.00	± 2.80
$200 < \mathbf{C} < 250$	± 1.85	± 1.90	± 2.55	± 3.50
$250 < \mathbf{C} < 300$	± 2.20	± 2.40	± 3.20	± 4.00

MACHINING STANDARD TOLERANCES UNI - ISO 2768 m

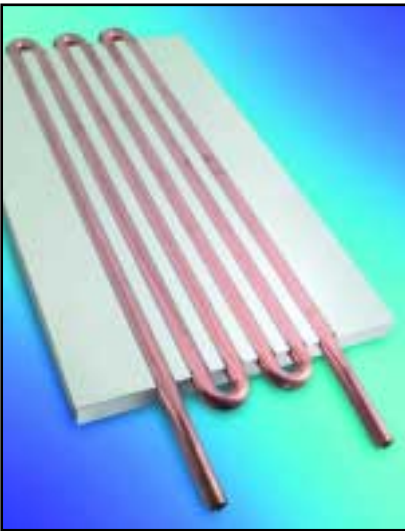
Parameters		Tolerance mm
Cut to length	L < 300	± 0.25
	$300 \leq \mathbf{L} < 500$	± 0.5
	L = 500	± 1.0
Hole center to center	d < 30	± 0.2
	$30 \leq \mathbf{d} < 120$	± 0.3
	$120 \leq \mathbf{d} < 400$	± 0.5
	d = 400	± 0.8
Hole Diameter	d < 8	-0.05 +0.08
Unmachined surfaces	Flatness	0.5 / 100
	Roughness	1.6 μm
Machined surfaces	Flatness	0.05 / 100
	Roughness	0.8 $\sim \mu\text{m}$
Anodization thickness	12 μm	$\pm 5 \mu\text{m}$

Parameters		Tolerance mm
Threaded holes maximum depth	Size	Maximum depth
	M2	6
	M2.5	7.5
	M3	10
	M4	12
	M5	15
	M6	18
	M8	24

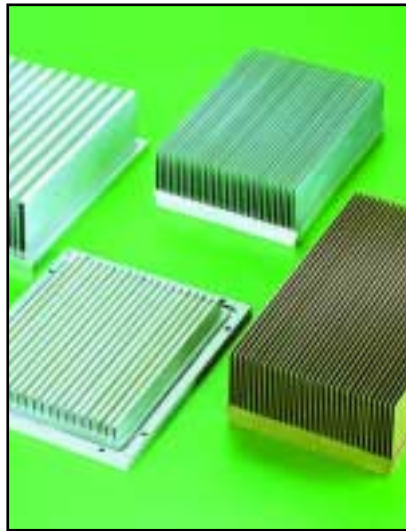
Parameter	Quantity	Tolerance
Quantity (q)	q < 10	- 1 pc
	$10 \leq \mathbf{q} < 50$	$\pm 1 \text{ pc}$
	$50 \leq \mathbf{q} < 200$	$\pm 2 \text{ pcs}$
	$200 < \mathbf{q} < 500$	$\pm 5 \text{ pcs}$
	$500 < \mathbf{q} < 1000$	$\pm 10 \text{ pcs}$
	q = 1000	$\pm 30 \text{ pcs}$

Our products are made of
Al 6060 T5 (Aluminum Alloy 9006/I).

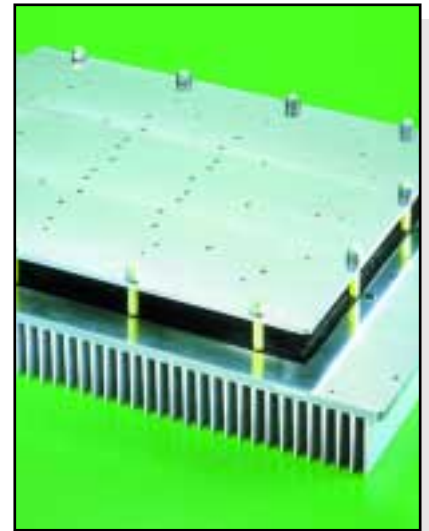
OTHER Aavid Thermalloy Products Offered



Power Flow - Blister L.C.P.



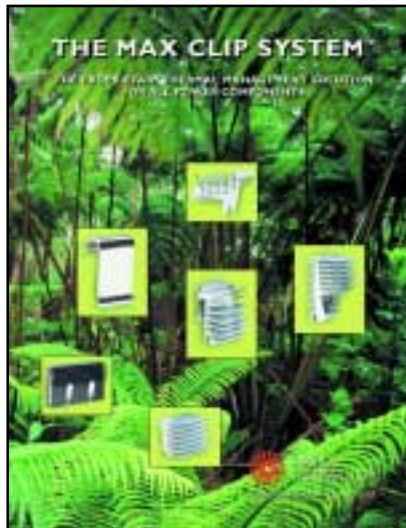
Power Fin - Brazed Fin



Power Block



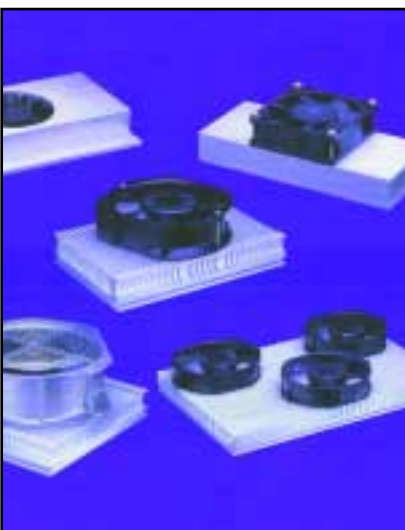
Digital - Board Mounted



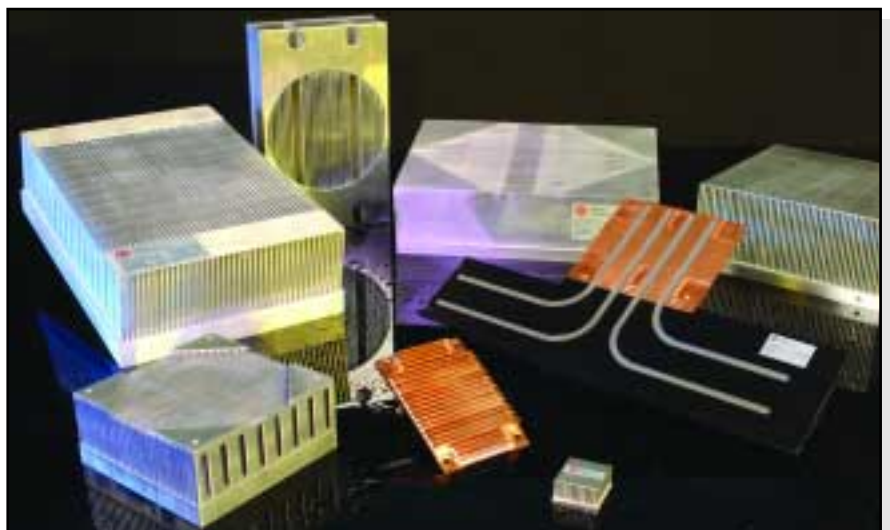
Max Clip



Power Pipe



Power Gain



Customized Hi-Tech Cooling Solutions

CORPORATE HEADQUARTERS

Aavid Thermalloy
80 Commercial Street
Concord, New Hampshire • USA
Tel: +1 (0) 224 99 88
Fax: +1 (0) 603 223 1738

EUROPEAN SALES OFFICES

Aavid Thermalloy Sarl (France)
10 avenue du Québec - Villebon - BP116
91944 Courtaboeuf Cedex, France
Tel: +33 (0) 1 60 92 41 25
Fax: +33 (0) 1 60 92 41 27
e-mail: sales.fr@aavid.com

Aavid Thermalloy GmbH (Germany)
Hirtenstrasse 3, D-73271
Holzmaden, Germany
Tel: (49) 07023 909990
Fax: (49) 07023 909991
e-mail: sales.de@aavid.com

Aavid Thermalloy Srl (Italy)
Via XXV Aprile, 32
40057 Cadriano (Bologna), Italy
Tel: +39 051 764011
Fax: +39 051 764092
e-mail: sales.it@aavid.com

Aavid Thermalloy Ltd (United Kingdom)
Cheney Manor, Swindon,
Wiltshire SN2 2QN, United Kingdom
Tel: (44) 1793 401400
Fax: (44) 1793 615396
e-mail: sales.uk@aavid.com



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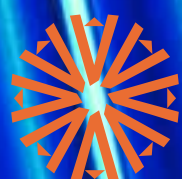
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