

KØLEPROFILER



PROFILMECC

SERIE PM

PROFILMECC

MATERIAL DATA SHEET

	Tensile strength	0,2-Proof stress	Elongation	Hardness	Module of elasticity
Aluminium EN AW-1050A	80 N/mm ²	35 N/mm ²	38%	21 HB	65 kN/mm ²
Aluminium EN AW-6101B	120 N/mm ²	75 N/mm ²	9%	25 HB	69 kN/mm ²
Copper	210 N/mm ²	120 N/mm ²	45%	45 HV	110 kN/mm ²

Chemical Composition

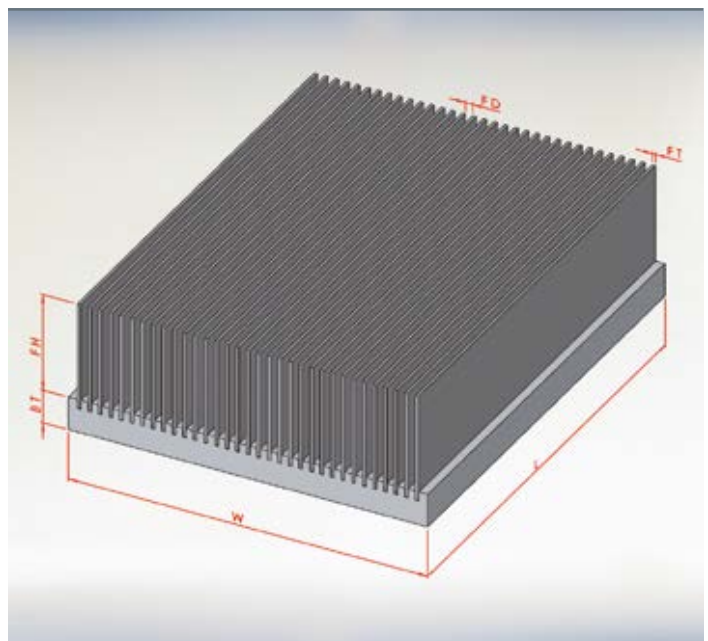
	Si	Fe	Mn	Mg	Cu	Zn	Ti	Others	Al
Aluminium EN AW-1050A	0,25	0,40	0,05	0,05	0,05	0,07	0,05	0,03 (each)	99,5 (min)
Aluminium EN AW-6101B	0,30-0,60	0,10-0,30	0,05	0,35-0,60	0,05	0,1	-	0,03 (each)	98,2 (max)
Copper	-	-	-	-	99,95 (min)	-	-	0,05 (tot)	-

Profilmecc, a completely innovative product: totally custom made heat sinks but at the same time with the standard solutions specifications. Made through mechanical assembling of base and fins, utilising an exclusive and patented technology, Profilmecc guarantees mechanical specifications of unequivocal excellence. Aspect ratio up to 95:1.

From raw material to finished product: Profilmecc and ProfilmeccPlus thermal performances are unique and, compared to our competitors best and most efficient heat sinks, they guarantee an average decrease in thermal resistance between 7 and 10%.

None of our competitors has the complete control of the whole production, from raw material to the finished product. This allows MeccAL to be the only company in the market to launch this kind of technological solution. There are no other alternatives to Profilmecc and ProfilmeccPlus.

Heatsink Width (W)	max 1000 mm (single piece, without welding)
Heatsink Length (L)	max 1300 mm
Base Thickness (BT)	8 ÷ 50 mm
Fin Height (FH)	max 190 mm
Fin Thickness (FT)	1 ÷ 3 mm
Fins Distance (FD)	min 2 mm
Aspect Ratio (FH/FD)	max 95:1
Tolerances on dimensions and machining	ISO 2768-mk
Material	EN AW-1050A - EN AW-6101B - Copper



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PROFILMECCPLUS

MATERIAL DATA SHEET

Density	Thermal conductivity	Electrical conductivity	Linear thermal expansion coeff.
2,70 Kg/dm ³	229 W/mK	35,4 m/Ωmm ²	23,6 10 ⁻⁶ 1/K
2,70 Kg/dm ³	219 W/mK	32,6 m/Ωmm ²	23,4 10 ⁻⁶ 1/K
8,93 Kg/dm ³	390 W/mK	57,0 m/Ωmm ²	16,8 10 ⁻⁶ 1/K

Application Properties

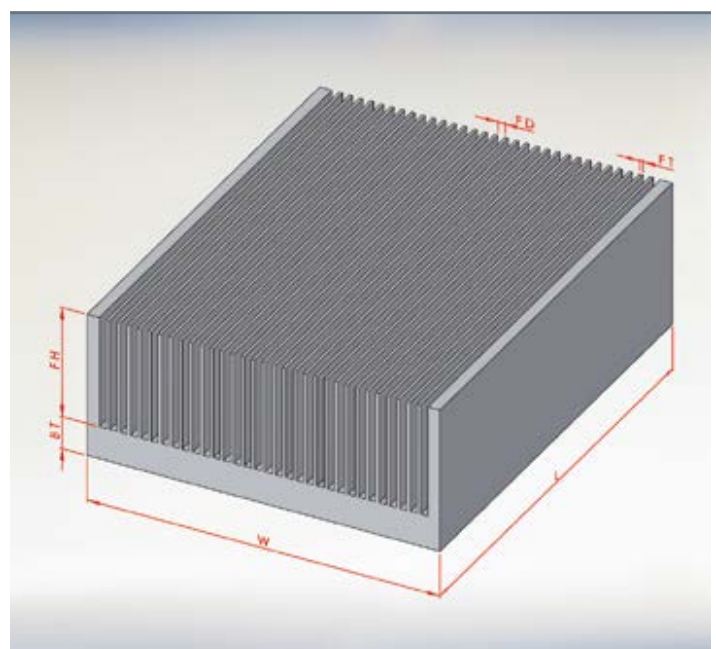
Machinability	Weldability	Corrosion Resistance	Formability	Surface Treatment
Medium	Good	Optimal	Good	Good
Good	Optimal	Optimal	Medium	Good
Medium	Good	Good	Good	Good

Beyond any limits! ProfilmeccPlus completely redefines all dimensional limits currently available today with other technologies. Profil-meccPlus is a monolithic heatsink completely flexible with regards to each individual design requirement: base width, length and base thickness; fin thickness and distance between fins. Aspect ratio up to 43:1. Freedom to design completely customised solutions without any ties, utilising a standard product.

From raw material to finished product: Profillmecc and ProfilmeccPlus thermal performances are unique and, compared to our competitors best and most efficient heat sinks, they guarantee an average decrease in thermal resistance between 7 and 10%.

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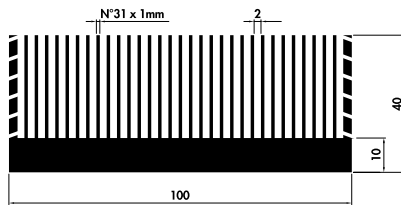
Heatsink Width (W)	max 800 mm (single piece, without welding)
Heatsink Length (L)	max 3000 mm
Base Thickness (BT)	5 ÷ 50 mm
Fin Height (FH)	max 150 mm
Fin Thickness (FT)	min 0,8 mm
Fins Distance (FD)	min 2 mm
Aspect Ratio (FH/FD)	max 43:1
Tolerances on dimensions and machining	ISO 2768-mk
Material	EN AW-1050A - EN AW-6101B



SERIE PM & PM+

PROFILMECC & PROFILMECCPLUS

The presented profiles are just a few of the possible heat sink configurations.

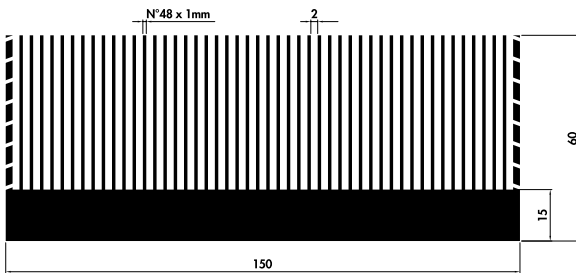
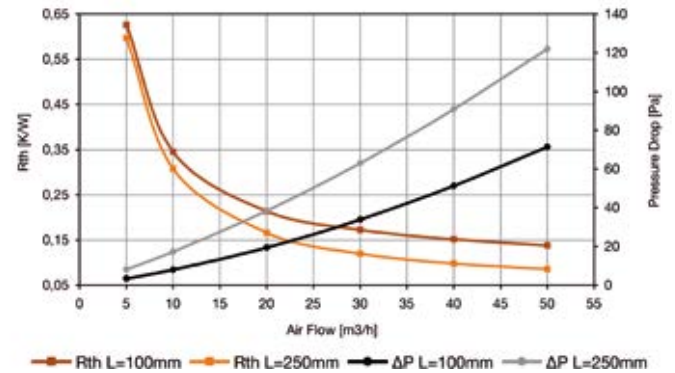


Pm100 40

Weight: 5,21 Kg/m

Pm+100 40

Weight: 5,62 Kg/m

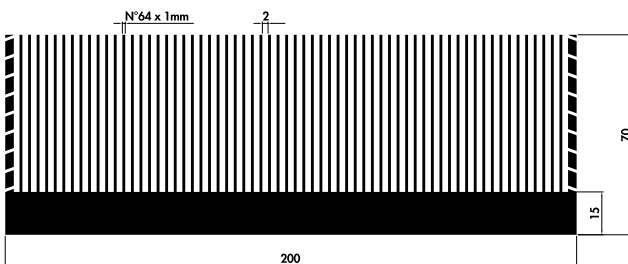
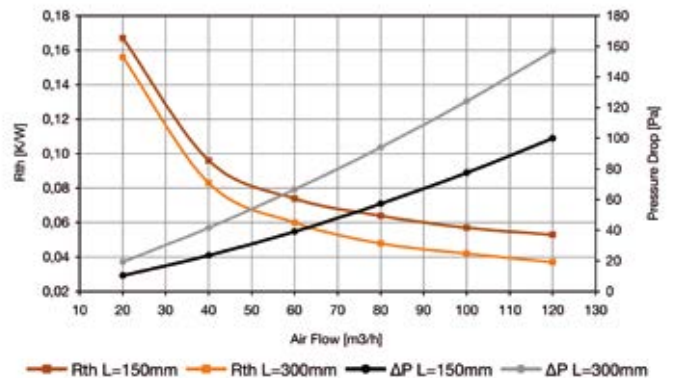


Pm150 60

Weight: 11,18 Kg/m

Pm+150 60

Weight: 12,39 Kg/m

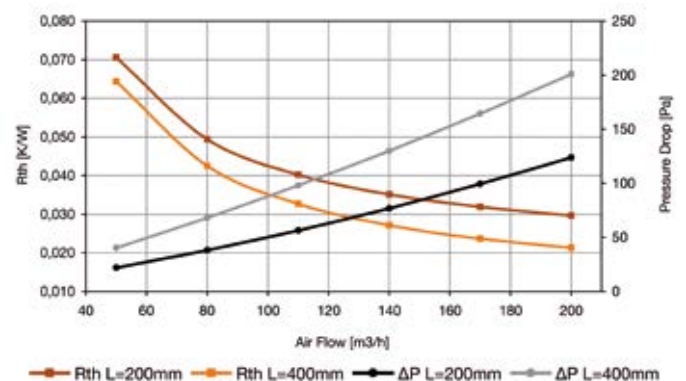


Pm200 70

Weight: 17,60 Kg/m

Pm+200 70

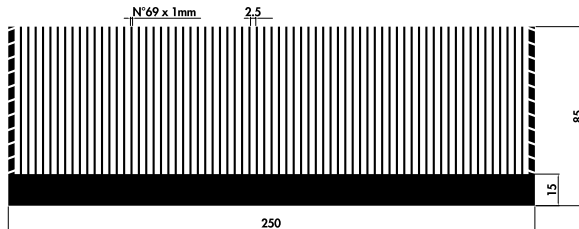
Weight: 18,50 Kg/m



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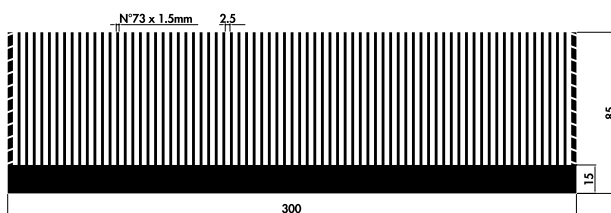
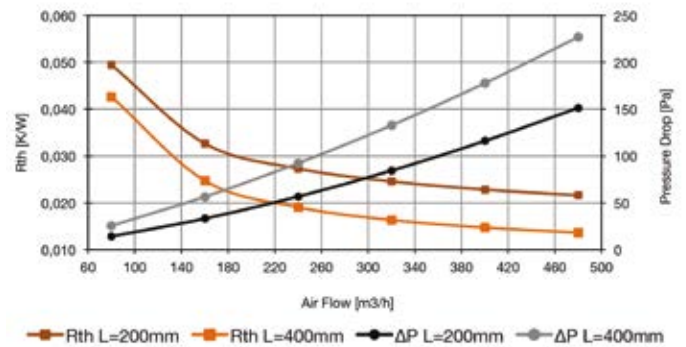


Pm250 85

Weight: 23,17 Kg/m

Pm+250 85

Weight: 24,30 Kg/m

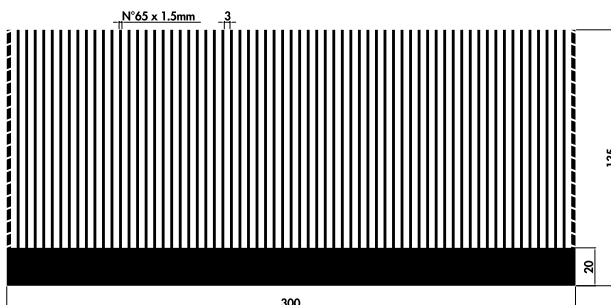
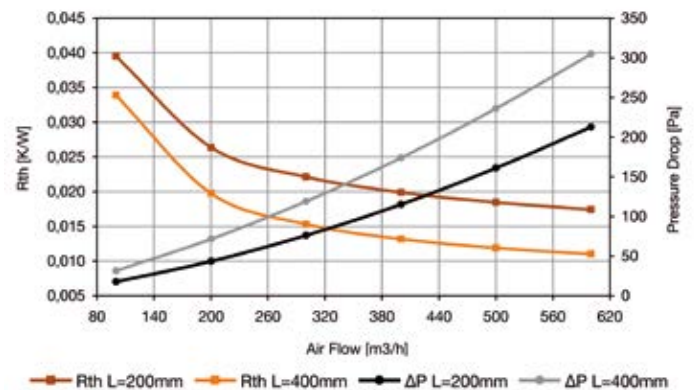


Pm300 85

Weight: 32,85 Kg/m

Pm+300 85

Weight: 33,89 Kg/m

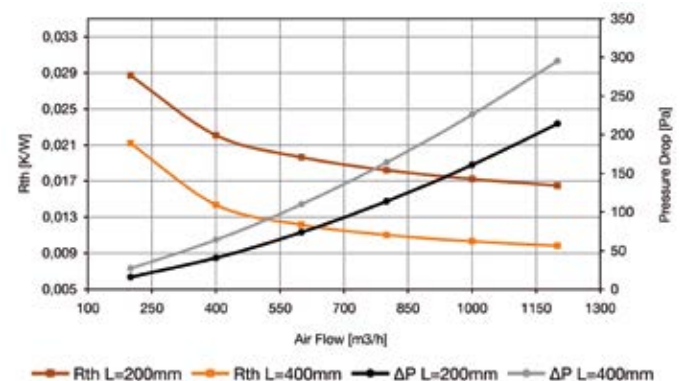


Pm300 135

Weight: 46,47 Kg/m

Pm+300 135

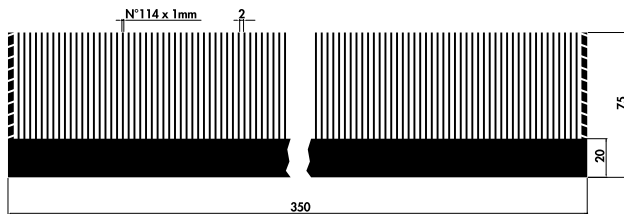
Weight: 47,87 Kg/m



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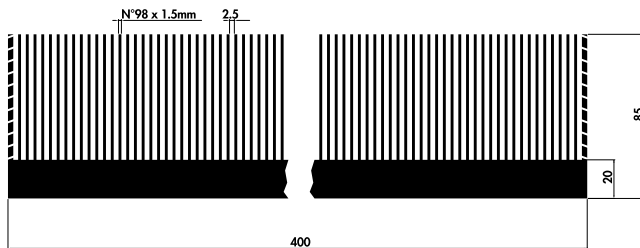
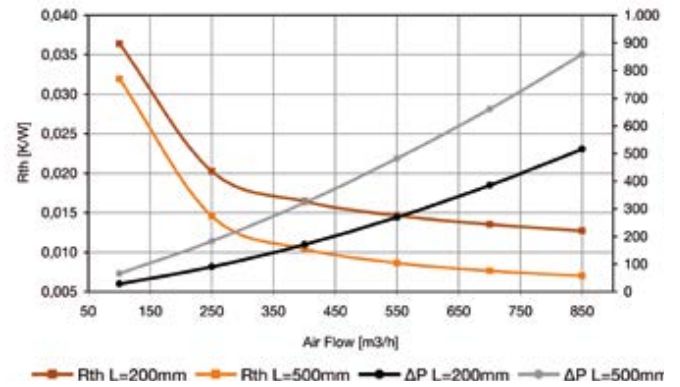


Pm350 75

Weight: 35,83 Kg/m

Pm+350 75

Weight: 36,72 Kg/m

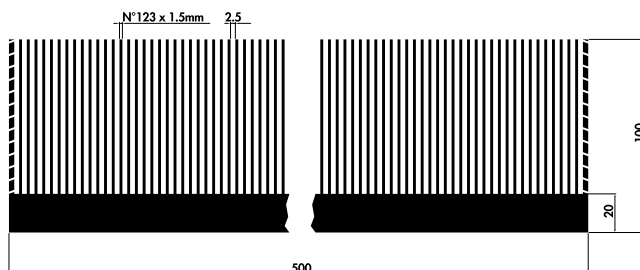
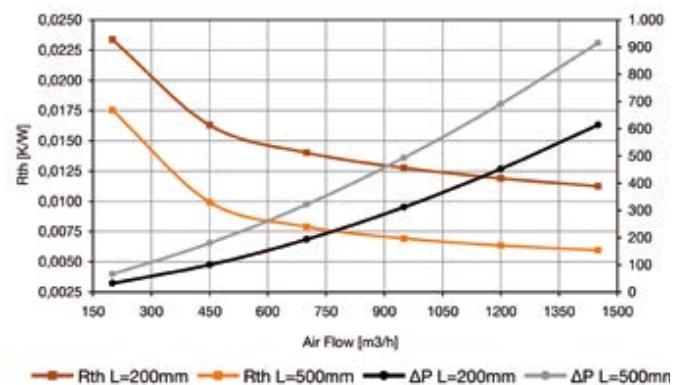


Pm400 85

Weight: 47,40 Kg/m

Pm+400 85

Weight: 48,36 Kg/m

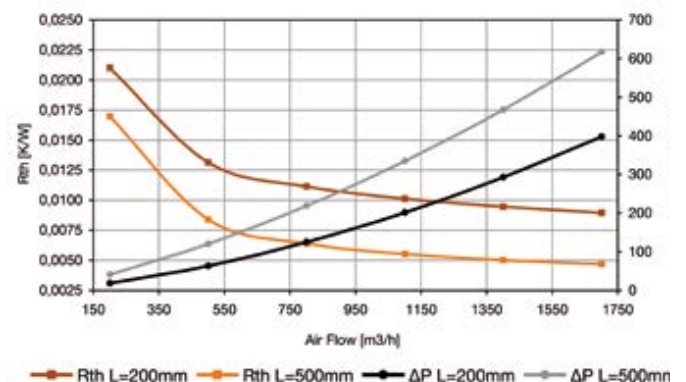


Pm500 100

Weight: 66,85 Kg/m

Pm+500 100

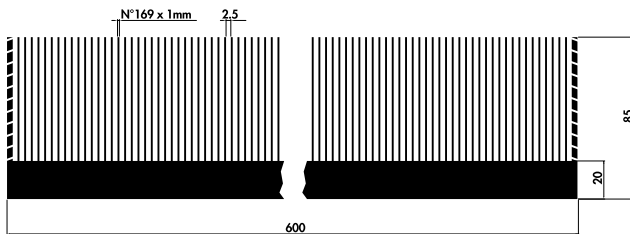
Weight: 68,04 Kg/m



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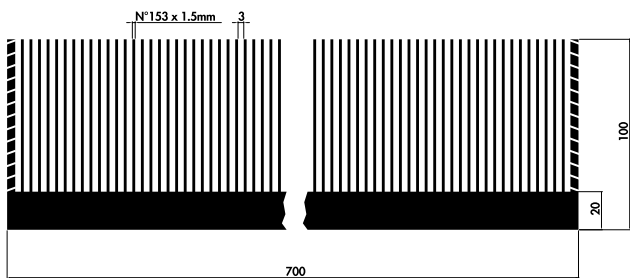
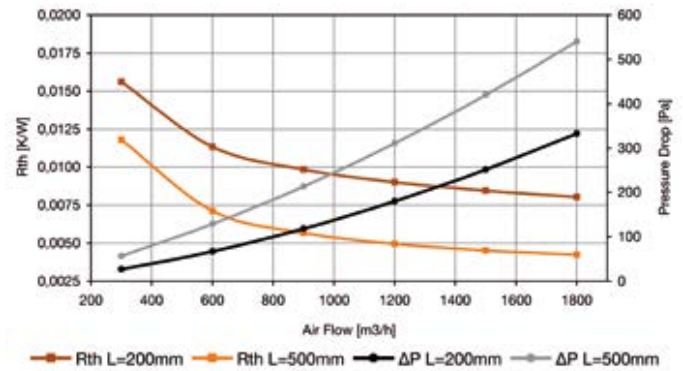


Pm600 85

Weight: 62,06 Kg/m

Pm+600 85

Weight: 63,11 Kg/m

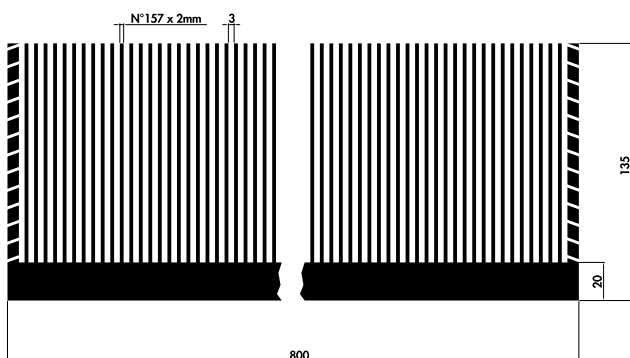
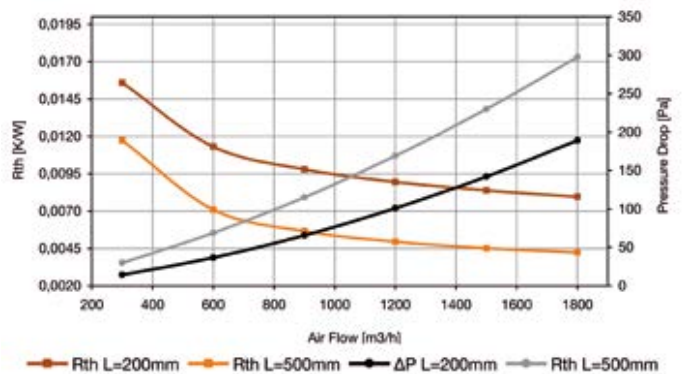


Pm700 100

Weight: 87,37 Kg/m

Pm+700 100

Weight: 89,21 Kg/m

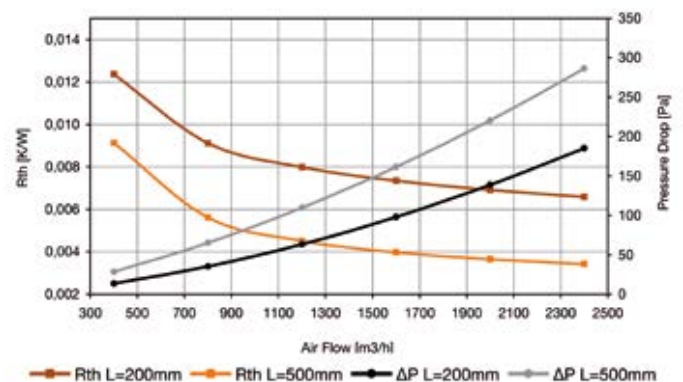


Pm800 135

Weight: 140,70 Kg/m

Pm+800 135

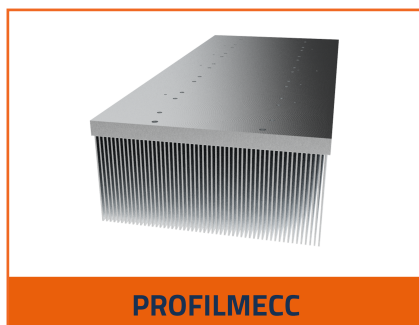
Weight: 144,42 Kg/m



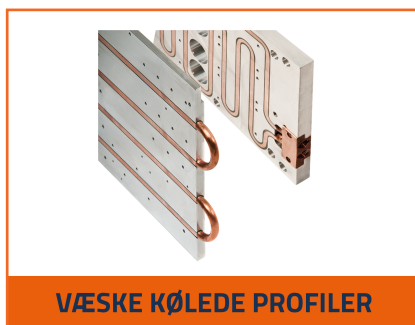


KØLEPROFILER

VORES PRODUKTSORTIMENT INKLUDERER:



PROFILMECC



VÆSKE KØLEDE PROFILER



EKSTRUDEDE



PSA INSULATING TAPE



SARCON GREASE TYPE



TERMISK LEDENDE MATERIALE

VI FØRER PRODUKTER INDENFOR KATEGORIERNE:



AUTOMATIK



HVAC & BYGNINGS-
AUTOMATIK



ELVARME

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