

QUALITY  
EFFICIENCY  
SERVICE



Profilmecc  
ProfilmeccPlus



**The latest generation product**



# Profilmecc

Innovation Performance Exclusivity

## Aluminium Alloy EN AW-1050A (Al99,5) \* - Data sheet

## Mechanical properties

Tensile strength	0,2-Proof stress	Elongation	Brinell hardness	Module of elasticity
80 N/mm <sup>2</sup>	35 N/mm <sup>2</sup>	38%	21	65 kN/mm <sup>2</sup>

\*Other aluminium alloys available upon request

## Chemical Composition

Si	Fe	Mn	Mg	Cu	Zn	Ti	Others (Each)	Al
0,25	0,40	0,05	0,05	0,05	0,07	0,05	0,03	99,5 (min)

**Innovation** Profilmecc, una linea di prodotto totalmente innovativa: dissipatori completamente custom con allo stesso tempo tutte le caratteristiche di una soluzione standard. Realizzato tramite l'assemblaggio meccanico di base ed alette con l'utilizzo di una tecnologia esclusiva e brevettata Profilmecc garantisce caratteristiche meccaniche di assoluta eccellenza. Aspect ratio fino a 75:1.

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 75:1.

**Performance** Dalla materia prima al prodotto finito: le performance termiche di Profilmecc e ProfilmeccPlus sono uniche e rispetto ai migliori e più efficienti dissipatori concorrenti ad oggi sul mercato garantiscono un decremento medio della resistenza termica tra il 7 ed il 10%.

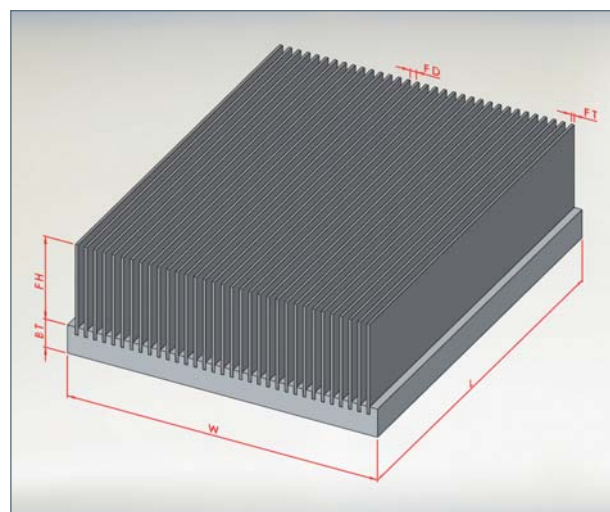
From raw material to finished product: Profilmecc and ProfilmeccPlus thermal performances are unique and, compared to our competitors best and most efficient heat sinks, they guarantee an average decrease in thermal resistance between 7 and 10%.

**Exclusivity** Nessun concorrente ha il completo controllo dell'intero processo di lavorazione, dalla materia prima al prodotto finito. Ciò permette a MeccAL di essere l'unica azienda sul mercato in grado di proporre questo tipo di soluzione tecnologica. Non esistono alternative alle linee di prodotto Profilmecc e ProfilmeccPlus.

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.

## Dimensional specifications

Heatsink Width (W)	max 800 mm (single piece, without welding)
Heatsink Length (L)	max 1000 mm
Base Thickness (BT)	8 + 30 mm
Fin Height (FH)	max 150 mm
Fin Thickness (FT)	1 + 3 mm
Fins Distance (FD)	min 2 mm
Aspect Ratio (FH/FD)	max 75:1
Tolerances on dimensions and machining	ISO 2768-mk



# ProfilmecPlus

Innovation Performance Exclusivity

# meccAL

## Physical properties

## Aluminium Alloy EN AW-1050A (Al99,5) \* - Data sheet

Thermal conductivity	Electrical conductivity	Linear thermal expansion coeff.
229 W/mK	35,4 m/Ωmm <sup>2</sup>	23,6 1/Kx10 <sup>6</sup>

## Application Properties

\*Other aluminium alloys available upon request

Machinability	Weldability	Corrosion Resistance	Formability	Anodizing Response
Medium	Good	Optimal	Good	Good

**Innovation** Oltre i limiti! ProfilmecPlus ridefinisce completamente tutti i limiti dimensionali sino ad oggi raggiunti con altre tecnologie. ProfilmecPlus è un dissipatore monolitico completamente flessibile e dimensionabile in base alle specifiche esigenze di ogni singolo progetto: larghezza, lunghezza, spessore del piano base, spessore e passo delle alette, aspect ratio fino a 43:1. Libertà di progettare soluzioni completamente custom e senza vincoli utilizzando una linea di prodotto standard.

Beyond any limits! ProfilmecPlus completely redefines all dimensional limits currently available today with other technologies. ProfilmecPlus 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.

**Performance** Dalla materia prima al prodotto finito: le performance termiche di Profilmec e ProfilmecPlus sono uniche e rispetto ai migliori e più efficienti dissipatori concorrenti ad oggi sul mercato garantiscono un decremento medio della resistenza termica tra il 7 ed il 10%.

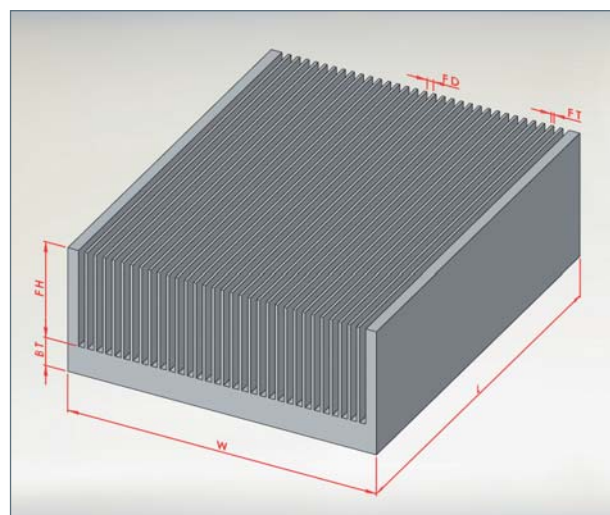
From raw material to finished product: Profilmec and ProfilmecPlus thermal performances are unique and, compared to our competitors best and most efficient heat sinks, they guarantee an average decrease in thermal resistance between 7 and 10%.

**Exclusivity** Nessun concorrente ha il completo controllo dell'intero processo di lavorazione, dalla materia prima al prodotto finito. Ciò permette a MeccAL di essere l'unica azienda sul mercato in grado di proporre questo tipo di soluzione tecnologica. Non esistono alternative alle linee di prodotto Profilmec e ProfilmecPlus.

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 on the market to launch this kind of technological solution. There are no other alternatives to Profilmec and ProfilmecPlus.

## Dimensional specifications

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

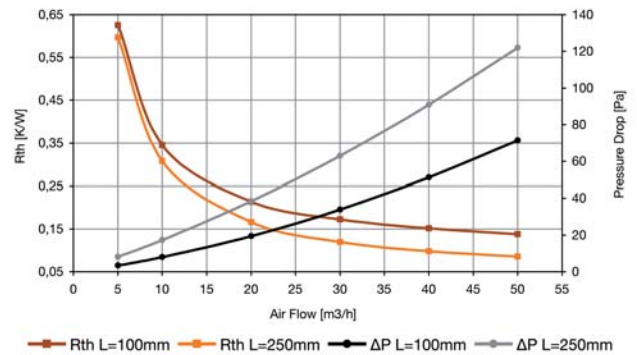
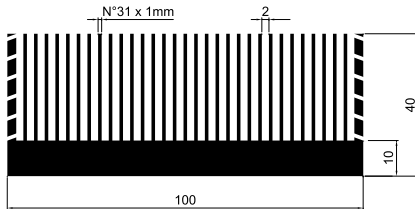


## Pm100 40

Weight: 5,21 Kg/m

## Pm+100 40

Weight: 5,62 Kg/m

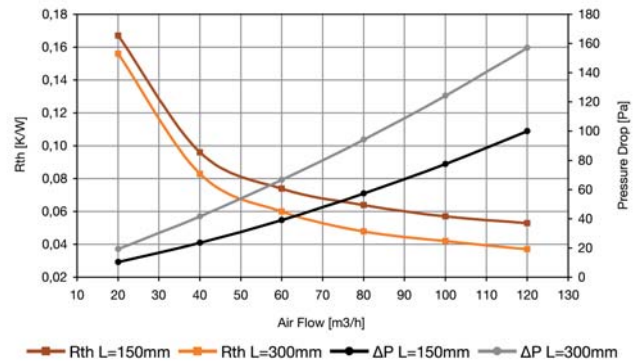
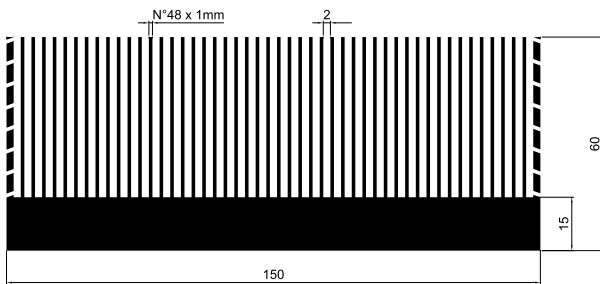


## Pm150 60

Weight: 11,18 Kg/m

## Pm+150 60

Weight: 12,39 Kg/m

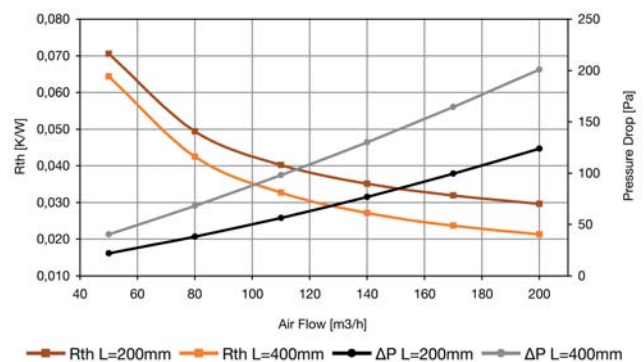
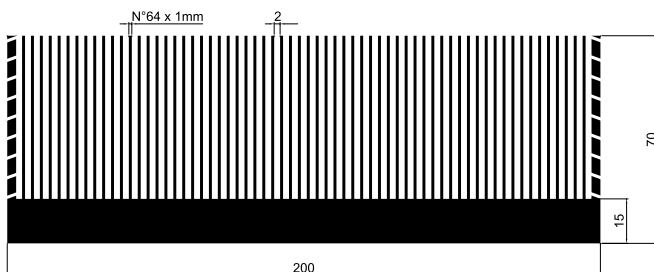


## Pm200 70

Weight: 17,60 Kg/m

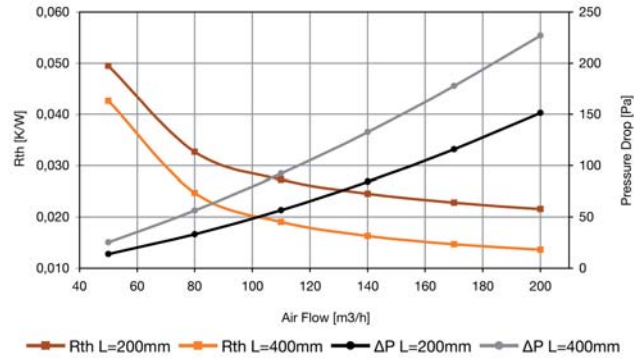
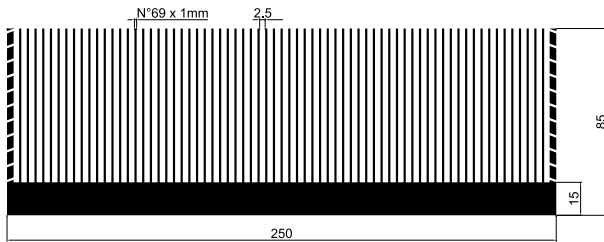
## Pm+200 70

Weight: 18,50 Kg/m



### Pm250 85

Weight: 23,17 Kg/m

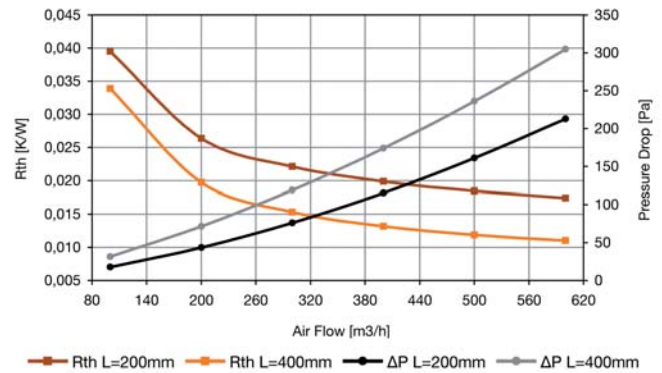
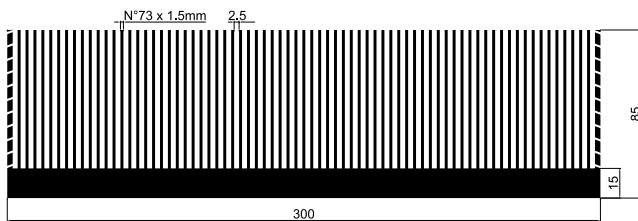


### Pm+250 85

Weight: 24,30 Kg/m

### Pm300 85

Weight: 32,85 Kg/m

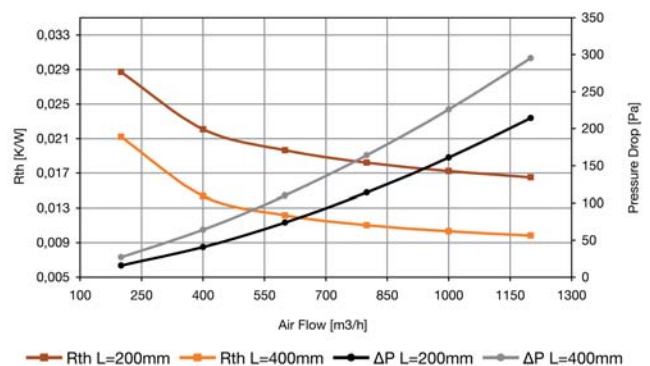
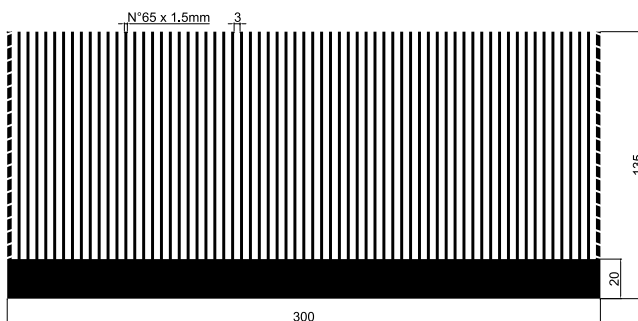


### Pm+300 85

Weight: 33,89 Kg/m

### Pm300 135

Weight: 46,47 Kg/m

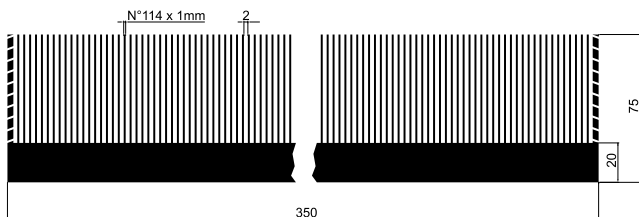


### Pm+300 135

Weight: 47,87 Kg/m

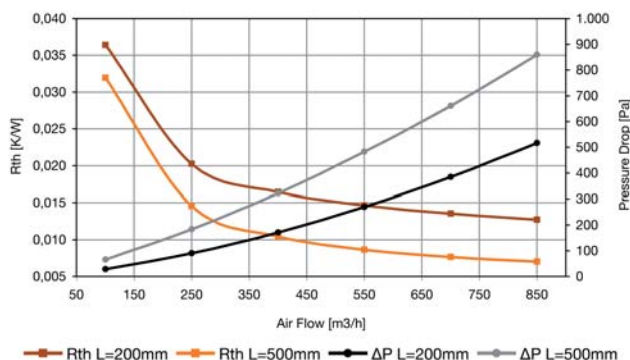
### Pm350 75

Weight: 35,83 Kg/m



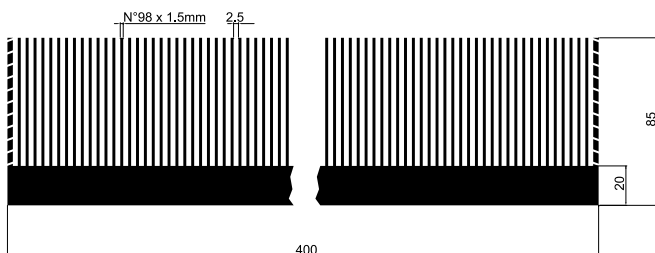
### Pm+350 75

Weight: 36,72 Kg/m



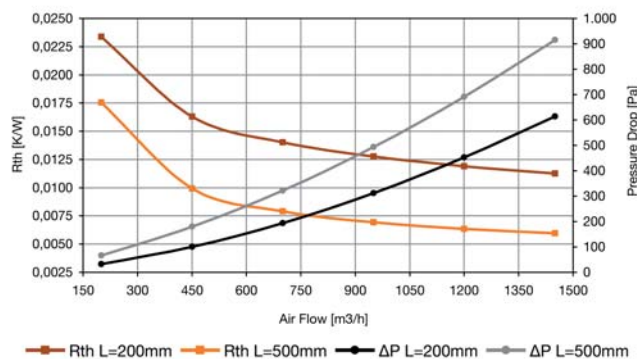
### Pm400 85

Weight: 47,40 Kg/m



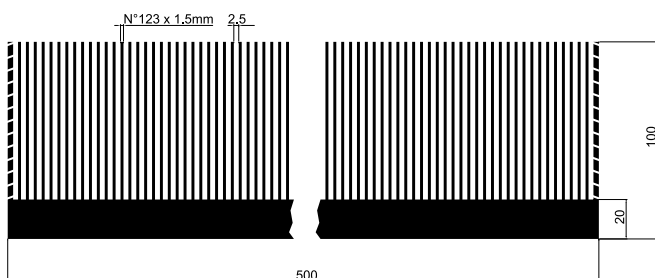
### Pm+400 85

Weight: 48,36 Kg/m



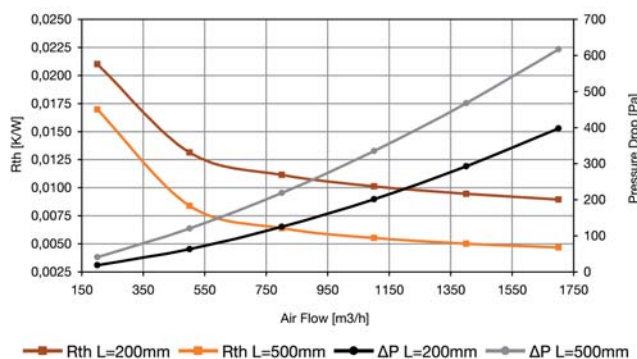
### Pm500 100

Weight: 66,85 Kg/m



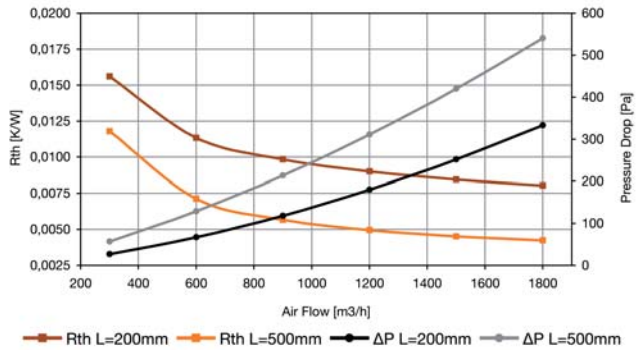
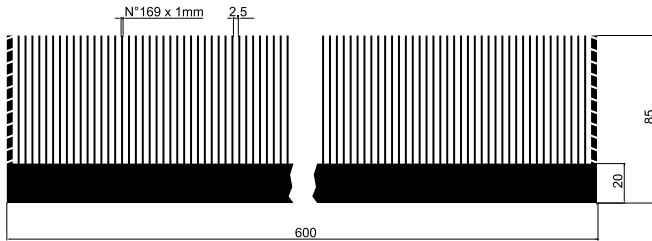
### Pm+500 100

Weight: 68,04 Kg/m



## Pm600 85

Weight: 62,06 Kg/m

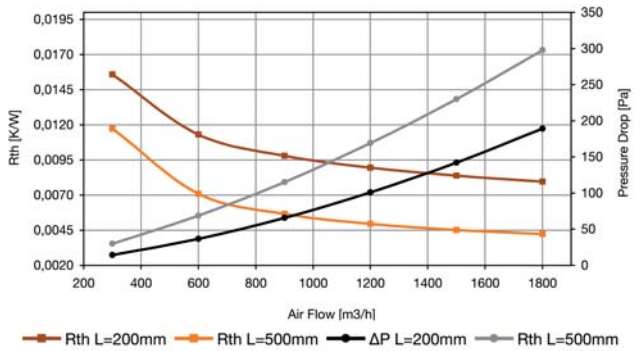
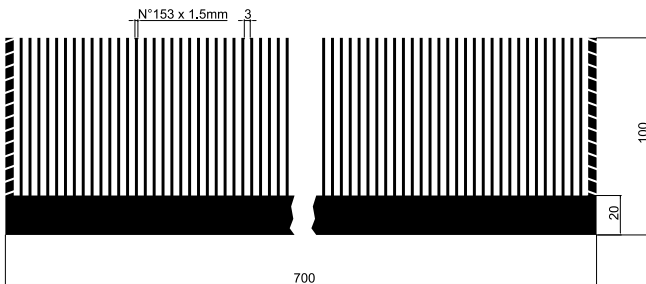


## Pm+600 85

Weight: 63,11 Kg/m

## Pm700 100

Weight: 87,37 Kg/m

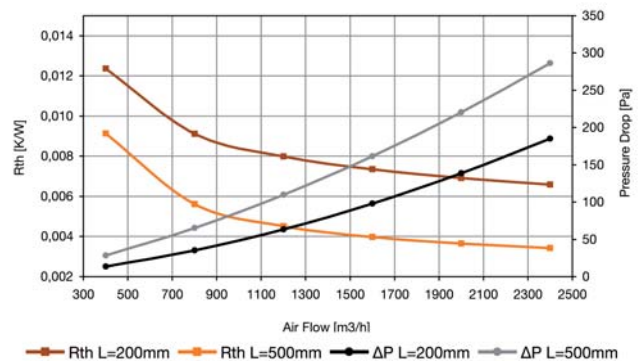
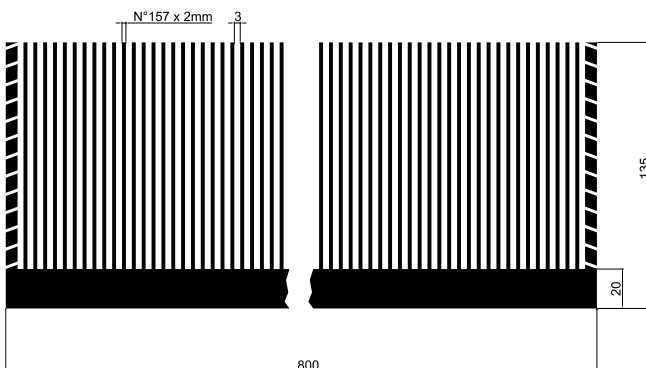


## Pm+700 100

Weight: 89,21 Kg/m

## Pm800 135

Weight: 140,70 Kg/m



## Pm+800 135

Weight: 144,42 Kg/m

# Profilmecc ProfilmeccPlus



---

**Mecc. Al S.r.l.** a socio unico

---

via Giovanni Agnelli, 25 » 61030 **Calcinelli di Saltara** (PU) » **Italy**

---

tel. +39 0721 8764111 » fax +39 0721 876003

---

[www.meccal.com](http://www.meccal.com) » [info@meccal.com](mailto:info@meccal.com)

---

