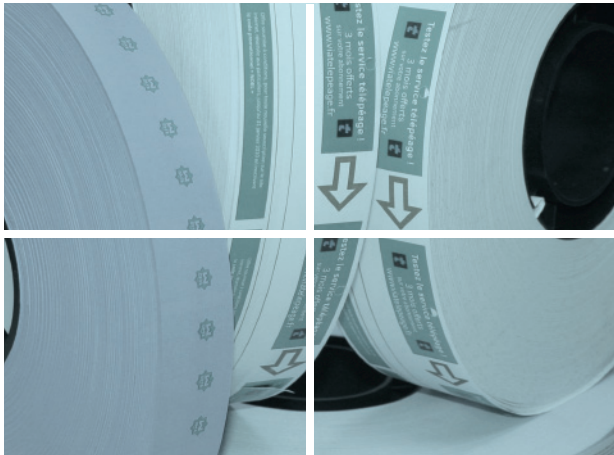


CSA



Magnetic



The magnetic division of Calmell has been operating **for more than 30 years**, and is therefore the best known of the group. During these years it has participated in projects throughout the whole world, and has responded to all client requests, changing and improving the product in order to adapt it to the needs of each moment. This is why the final customer and the integrators (OEM) consider us to be a solid, reliable supplier with a **proven high level of quality** and, therefore a **reputable supplier**.

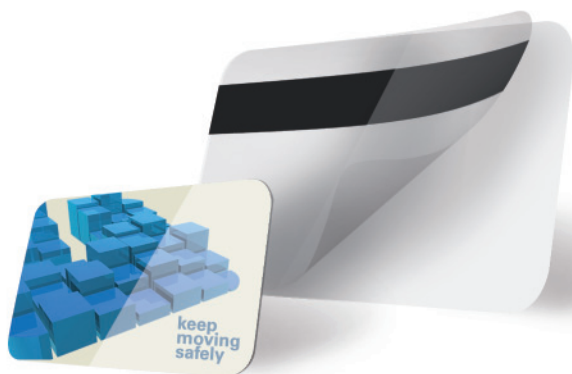
General Characteristics

Formats	Finishing	Materials	Thickness	Application of Magnetic stripe	Applications
Edmonson Iso Prolongated Iso A.T.B.	Unit Fanfolded Roll	Paper Thermal Paper Triplex	178 microns 250 microns 270 microns 330 microns	Slurry Tape	Bus Underground Train Aviation Toll roads Car Parks Leisure and Culture
Width of Magnetic stripe	Printing	Coercivity	Encoding density	Types of encoding	
1,50 mm 3,00 mm 5,00 mm 6,35 mm 12,70 mm 16,00 mm 25,40 mm	Offset Waterless offset Flexography	300 Oe 2750 Oe 3500 Oe 4100 Oe	33 bpi 75 bpi 128 bpi 150 bpi 210 bpi	Standard Sequential Personalised	

The use of any type of paper or card, the application of any type of stripe through different methods, and the different printing options culminate in a **complete range of products** covering all the possibilities in the market.

Personalisation: magnetic tickets can be marked for blind users, numbered, encoded and can incorporate security inks and holograms.





Within the same family of magnetic products there are sectors or applications that require a **more rigid and durable support** which is why Calmell offers magnetic cards. They are mainly used in **access control**, for example hotels or cruises, they are also commonly used as loyalty cards.

Personalisation: the magnetic cards can be printed in a **wide range of colours** using different systems, and individually **personalised**, incorporating **numbering** (laser or sublimation), stripe **encoding** and the application of **bar codes**, **magnetic stripes**, **signature panel**, **embossing** and **security holograms**.

General Characteristics

Materials	Types of encoding	Coercivity	Encoding density
PET PVC Bio	Standard Sequential Personalised	300 Oe 2750 Oe 4000 Oe	33 bpi 75 bpi 128 bpi 150 bpi 210 bpi
Thickness	Width of stripe	Printing	
270-800 microns	3,15 mm 5,00 mm 6,35 mm 12,70 mm	Offset Serigraphy *with no limits on colours	



C.S.A CARD ecologic

As part of its environmental policy, CALMELL has incorporated a card made from **biodegradable material** into its product range. This was the result of the development of a new polymer, responding to the market need to take advantage of the unique characteristics of PVC, but offering an **ecological alternative**.

Also in its range of products with a magnetic stripe Calmell offers **savings books with a magnetic stripe or chip for banks**. Produced in accordance with the parameters established by the CECA (Spanish Confederation of Savings Banks) regulations.

