





marcal

[www.marcal.fr](http://www.marcal.fr)



**fr**

Depuis 1987, **marcal** signalétique réalise des systèmes d'information signalétique qui ont fait l'objet d'une attention particulière de la part d'architectes, de graphistes et d'utilisateurs exigeants qu'il s'agisse de travailler les contenus, travailler les formes, travailler les matériaux ou les couleurs pour maîtriser l'intensité des signes. Média d'un genre particulier, la signalétique doit se satisfaire de l'accès à un seul de nos cinq sens : la vue. C'est le sens le plus sollicité chez l'homme en mouvement, ce qui en rend l'accès plus difficile. Trop discrète, la signalétique ne remplit pas sa fonction, trop imposante, elle est préjudiciable à la lecture de l'espace.

Le média signalétique doit identifier le récepteur et l'émetteur des messages qu'elle véhicule (qui parle et à qui). Elle composera avec le bâti pour délivrer au "récepteur" des messages d'accueil, d'orientation, d'information et d'identification. Partie intégrante du bâtiment, la signalétique se limite à en souligner l'organisation et la fonction en tenant compte de ses occupants permanents et occasionnels. Trop présente elle sature le résident, trop légère, elle irrite le visiteur.

Structuellement rattachée au bâti, fonctionnellement dépendante de son "émetteur", la signalétique doit avoir la pérennité de l'objet construit et le potentiel évolutif d'un contenu organique. Trop pérenne, elle devient vite obsolète, trop volatile, elle perd son crédit.

Depuis 1987, **marcal** explore ce média pour proposer des solutions, tant en terme de produits que de conseils. **marcal** s'est associé à des architectes, des designers et des graphistes de grand talent pour élaborer des produits de très haute qualité. Une qualité qui se juge par le choix de matériaux d'une durabilité optimale et par un design industriel exigeant qui ne hiérarchise pas fonction et esthétique.

Depuis 2005, date de promulgation de la loi française dite "loi handicap", **marcal** signalétique a concentré son travail sur la déficience visuelle en créant le concept du "**full access**". Le "**full access**" est la prise en compte des handicaps visuels et cognitifs dans la définition des programmes signalétiques. L'objectif n'étant pas de créer un système supplémentaire parallèlement aux systèmes en place mais bien de rechercher des convergences. Chercher en quoi l'adaptation à la déficience visuelle améliore la qualité du système pour l'ensemble du public. Le partenariat entre **marcal** et le **Palais de Tokyo** est basé sur cette recherche.

Pour sa réouverture, le **Palais de Tokyo** sera dans le domaine de la signalétique le premier exemple d'un espace d'exposition accessible à tous les publics.



# en

**marcal** has been developing signposting systems since 1987. It works closely with the most rigorous architects, graphic designers and users, both on content, and on shape, texture and color, to ensure that these systems convey every aspect of the meaning and concepts involved.

Signposting is a unique medium, since it addresses only one of our five senses: the sense of sight. This is the sense most used by people on the move, which is why it is so difficult to address. If the sign is too discreet, it will pass unnoticed; if it is too imposing, it will interfere with the viewer's overall interpretation of his or her environment.

Successful signposting must identify the receiver and sender of the messages it wishes to convey: Who is the speaker and to whom is the message addressed? It must adapt to the existing "built-up environment" while delivering messages of welcome, guidance, information and identification to the "receiver". As an integral part of the building, signposting must discreetly highlight its organization and function while taking into account the needs of permanent occupants and occasional visitors. If it is too insistent, it overwhelms the occupant; if it is too subtle, it irritates the visitor.

Signposting systems are structurally attached to a building but functionally dependent on the "sender"

of the message. Thus, they must combine the permanence of the man-made object with the open-ended potential of their "living" content. **marcal** has been exploring this medium since 1987, offering solutions, in terms both of finished products and consulting. It works with the most talented architects, designers and graphic artists to develop products of very high quality, by choosing the most durable materials and applying a rigorous approach to industrial design that gives equal weight to function and the aesthetic aspect.

Since 2005, year when the French law for disabled persons has been enacted, **marcal** has paid attention to the visual deficiency, creating the "**full access**" concept. "**Full access**" means to care about visual and cognitive deficits within the briefing of signage programs. The objective would not be to create an extra system, parallel to existing ones, but to find joint solutions, by seeking how getting adapted to visual disability improves the quality of the whole system for everybody. The partnership between **marcal** and the **Palais de Tokyo** is based on this seek.

For its reopening, the **Palais de Tokyo** will be, in the signage field, the very first illustration of an exposition space open to all publics.



# es

Desde 1987, **marcal** realiza sistemas de información señalética en edificios, cuyos arquitectos o usuarios han prestado una especial atención a este medio; trabajando los contenidos, trabajando las formas, trabajando los materiales y los colores para dominar la intensidad de los signos.

Siendo un medio peculiar, la señalética ha de conformarse con la utilización de uno sólo de los sentidos: la vista. La vista es el sentido más solicitado en el hombre en movimiento, lo que dificulta llamarle la atención. Demasiado discreta, la señalética no cumple con su propósito; demasiado "exuberante", perjudica la lectura del espacio.

La señalética, como medio de comunicación, ha de identificar al emisor y al receptor (quien habla y a quien se dirige). Esto asimilado, se ha de conjugar con el edificio para entregar al receptor los mensajes de recepción, orientación, información e identificación. Como parte integrante del edificio, la señalética se limita a resaltar su organización y su función, respetando a los ocupantes residentes como así también a los ocasionales. Demasiado presente, puede llegar a saturar al residente, demasiado liviana, puede irritar al visitante.

Estructuralmente, dependiendo del edificio y, funcionalmente, dependiendo del emisor, la señalética ha de tener la perennidad del objeto arquitectónico y el potencial evolutivo de su contenido orgánico. Demasiado perenne, pronto se vuelve obsoleta, demasiado "volátil", pierde credibilidad.

En medio de todas estas contradicciones, la señalética tiene el difícil cometido de encontrar el tono justo, la resonancia exacta, que hará de ella un medio de comunicación perfectamente dominado.

Desde 1987, **marcal** explora este medio para proponer soluciones, tanto a nivel de productos, como a nivel de servicios. **marcal** se asoció con arquitectos, con diseñadores y con diseñadores gráficos talentosos para elaborar productos de muy alta calidad. Esta calidad se juzga por la durabilidad óptima de los materiales escogidos y por un diseño industrial exigente, que no sacrifica la funcionalidad a la estética.

Desde 2005, fecha de promulgación de la ley francesa llamada "ley de minusvalía", **marcal** señalética ha concentrado su trabajo en la deficiencia visual creando el concepto "**full access**". El "**full access**" toma en cuenta a las personas con deficiencias visuales y cognitivas, en la programación señalética. El objetivo no es la creación de un sistema suplementario paralelo a los sistemas emplazados, sino el encuentro de las convergencias. Buscar en esta adaptación a la deficiencia visual, una mejora en la calidad del sistema para el conjunto de los públicos. La asociación entre **marcal** y el **Palais de Tokyo** en París, está basada en esta búsqueda.

En su reapertura, el **Palais de Tokyo**, será a nivel de la señalética, el primer ejemplo de un espacio de exposición, abierto a todos los públicos.



# de

**marcal** erstellt seit 1987 Leit- und Orientierungssysteme, die sich bezüglich der Behandlung von Form, Inhalt, Material oder Farbe der besonderen Aufmerksamkeit von Architekten, Gestaltern und anspruchsvollen Nutzern sicher sein können - immer mit dem Ziel, die Wirkung der Zeichen zu beherrschen.

Als ganz spezielles Medium steht dem Leitsystem der Zugang zu nur einem unserer fünf Sinne offen: dem Sehen. Bewegt sich der Mensch von einem Ort zum anderen, so ist das Sehen der am meisten beanspruchte Sinn; denn Leitsystem wird dadurch sein Zugang zum Auge erschwert. Ist das Leitsystem zu zurückhaltend, kann es seine Aufgabe nicht erfüllen; ist es zu aufdringlich, stört es die Raumwahrnehmung des Menschen insgesamt.

Das Leitsystem als Medium verlangt die Definition von Sender und Empfänger: Wer spricht zu wem? Erst dann kann es zusammen mit der räumlichen Umgebung wirken, um den Empfänger mit Nachrichten zu versorgen, deren Inhalt Aufnahme, Orientierung, Information und Erkennung sein kann. Als festes Bestandteil des Gebäudes beschränkt sich das Leitsystem darauf, Organisation und Funktion im Sinne seiner ständigen und gelegentlichen Nutzer zu unterstreichen. Zu präsent ermüdet es den ständigen Nutzer, zu zurückhaltend ärgert es den Besucher.

In seiner Struktur dem Gebäude verbunden, in seiner Funktion jedoch abhängig vom "Sender", muss das Leitsystem sowohl über die Beständigkeit des Gebauten als auch über das Entwicklungspotential eines lebendig-organischen Inhaltes verfügen. Ist es zu bes-

tändig, ist es rasch überholt. Ist es zu flüchtig, verliert es seine Glaubwürdigkeit.

Das Leitsystem pendelt zwischen diesen Widersprüchen, und oft fällt es ihm schwer, den richtigen Ton zu treffen, der von zielgerichteter Vorgehensweise und von der Beherrschung komplexer Elemente zeugt.

Seit 1987 beschäftigt sich **marcal** mit diesem Medium in dem Bestreben, umfassende Lösungen im Sinne von Produkten und Beratung anzubieten.

**marcal** arbeitet gemeinsam mit renommierten und talentierten Architekten, Designern und Grafikern an der Gestaltung von Produkten höchster Qualität. Diese Qualität zeigt sich dabei in der Auswahl von Materialien mit optimaler Beständigkeit sowie in anspruchsvollem Industriedesign, das Funktion und Ästhetik als gleichberechtigt betrachtet.

Das ist zum einen Ausdruck der hohen Qualität und zum anderen Versicherung einer langfristigen Nachleiterbarkeit.

Zum Vertrieb seiner Produkte und seines Wissens stützt sich **marcal** auf ein Netz kritisch ausgewählter Partner. Selbstverständlich verfügen alle **marcal**-Partner über die notwendigen Kenntnisse und Fähigkeiten, um eine hochwertige Betreuung im Gebäude zu gewährleisten. Vor allem jedoch sind sie in der Lage, Architekt und Nutzer beim konstruktiven Gebrauch dieses Mediums zu unterstützen.

"Pst!" soll Interesse wecken, aber auch zur Kritik an diesem "stillen" Medium anregen.

# nl

Bij bewegwijzering gaat het om het selecteren, ordenen en ruimtelijk presenteren van informatie, met het doel om mensen te leiden naar bestemmingen. Bewegwijzering is een speciaal medium dat vrijwel uitsluitend een beroep doet op één van de vijf zintuigen "het zien". Als mensen op zoek zijn in gebouwen of in de publieke ruimte worden ze vaak geconfronteerd met vele visuele stimuli. In deze visuele drukte moet bewegwijzering concurreren om waargenomen te worden.

Te subtiel dan verliest het zijn functie, te opdringerig en te groot belemmt het mensen om een ruimte als geheel goed te interpreteren of te "lezen".

Goede bewegwijzering biedt de juiste informatie op de juiste plaats. De zender en ontvanger moeten worden geïdentificeerd om de juiste inhoud van de informatie te bepalen.

De locatie wordt vooral bepaald door de logistische structuur en functionele ruimtelijke organisatie. Bewegwijzering is een integraal onderdeel van een ruimtelijke omgeving of gebouw.

Bewegwijzeringselementen worden als materieel objecten gemonterd en worden zo een onderdeel van de architectuur. Contrastrend, integrerend, versterkend, het kan op allerlei manieren. In ieder geval moet bewegwijzering werken in samenspel met de omgeving om de functies van identificatie, verwijzing en oriëntatie goed te vervullen.

Enerzijds heeft bewegwijzering een vaste plaats in de architectuur anderzijds moet het zich snel en flexibel kunnen aanpassen aan veranderingen bij gebruikers.

Bewegwijzering moet vaak tegelijkertijd aan tegenstrijdige eisen voldoen, compleet maar niet te veel, opvallend maar niet detonrend, flexibel maar ook duurzaam, passend in het interieur maar niet te subtiel etc.. Steeds is het een uitdaging om een goede harmonie te bereiken tussen logica, techniek en esthetiek.

Tegen deze achtergrond ontwikkelt **marcal** producten. Sinds 1987 werkt **marcal** samen met gerenommeerde architecten, industrieel ontwerpers en grafici om producten van hoge kwaliteit te ontwikkelen. De kwaliteit komt tot uiting in doordacht en duurzaam materialgebruik in combinatie hoogwaardig industriel ontwerp, waarbij functionaliteit en esthetica gelijkwaardig worden behandeld. De garantie is onderdeel van de hoge kwaliteit en verzekerd kopers van een lange nalevertijd.

**marcal** maakt gebruik van een kritisch geselecteerde groep partners om de producten en kennis te distribueren. Zij beschikken over de noodzakelijke kennis en vaardigheden om bewegwijzering te implementeren en te onderhouden. Bovendien zijn ze in staat om architecten en gebruikers te adviseren over een goed concept en werking van het medium bewegwijzering.

"Pst!" moet nieuwsgierig maken en stimuleren tot kritische discussie over "het stille medium".

# 日本語

マーカル社は1987年以来、より優れたサイシステムの開発のために、ヨーロッパの著名な建築家、グラフィックデザイナー、工業デザイナー、そして数多くのユーザーと共により良いメッセージ表現方法、グラフィック表現効果、ハードウェアの形態、素材、色彩などの研究を重ねてきました。

デザインシステムは、人間の五感のうち視覚にしか訴えることが出来ないメディアです。おとなしさを求めるデザインは役割を果たす一方、ささいなデザインは効果がないかもしれません。誰が「誰にメッセージを伝えるのか?」このことを明確にして、建築デザインと一緒に化し、建築の構成や機能などについて、的確な情報を発信するかがデザインシステムそのものの役割です。

また、デザインシステムは、構造、設備的には建築の一部ですが、その役割機能はメッセージを送る側にしかいません。デザインシステムは建築物としての永続性とともに、常に生まれた正確な情報を提供すべき義務を担っています。時代の変化に耐えこのバランスを保つていく必要があります。

バランスのとれたシステムデザインとは如何にあるべきか、ということを常にマーカル社は設計開発のコンセプトとして研究開発を行っています。

重ねて、マーカル社は建築物にシステムデザインを設置後、ユーザーが抱えてきたフレームワークなど、常に新鮮な情報発信をするには、というリューションを提供するために、製品開発とコンセプト双方の視点から情報を続けてきました。例えば、メッセージの変更や修正も、設置内容に合わせて即時対応できる簡便なアップロードによって実現できる構造もその一つです。

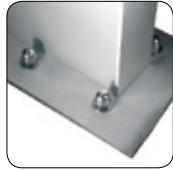
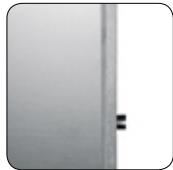
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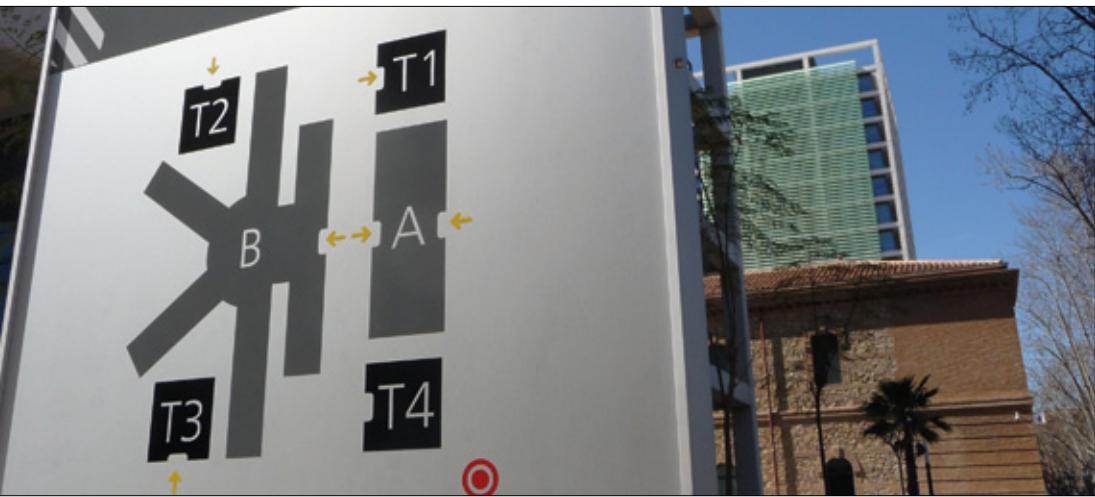


design tecton

**amer**



inox | stainless steel, acero inoxidable, acciaio inox, Edelstahl, ステンレス

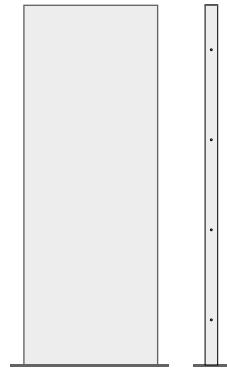
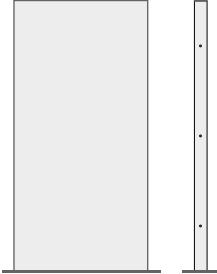


**amer 720**

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- w 683 x h 1985 x d 75mm | w 26,89 x h 78,17 x d 2,95"

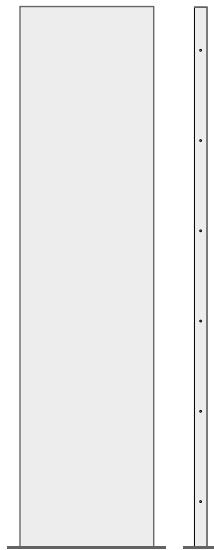
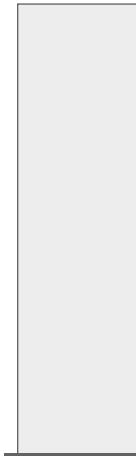
**amer 715**

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**amer 725**

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- w 683 x h 2481 x d 75mm | w 26,89 x h 97,70 x d 2,95"



**amer 730**

- w 699 x h 2989 x d 75mm | w 27,52 x h 117,70 x d 2,95"
- w 683 x h 2981 x d 75mm | w 26,89 x h 117,38 x d 2,95"

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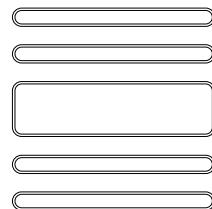
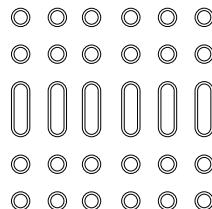
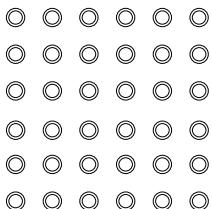
**cedo** | design rudi meyer

**marcal** full access





w 275 x h 275 x d 4 mm  
w 10,83 x h 10,83 x d 0,15"



LP

laiton poli miroir,  
mirror polished brass, latón pulido brillante,  
ottone lucidato,  
glänzend poliert messing, 黄銅 アルミボリ.



MA

aluminium: microbillé anodisé naturel,  
natural anodized micro-sand blasted,  
micro-arenado anodizado natural,  
micro-sabbiato anodizzato naturale,  
mikro-sandgestrahlt naturfarben eloxiert,  
アルミマイクロサンド



cedo A

w 25 x h 25 x d 4 mm  
w 0,98 x h 0,98 x d 0,15"



cedo B

w 25 x h 75 x d 4 mm  
w 0,98 x h 2,95 x d 0,15"



cedo C

w 275 x h 25 x d 4 mm  
w 10,83 x h 0,98 x d 0,15"



cedo D

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w 10,83 x h 2,95 x d 0,15"

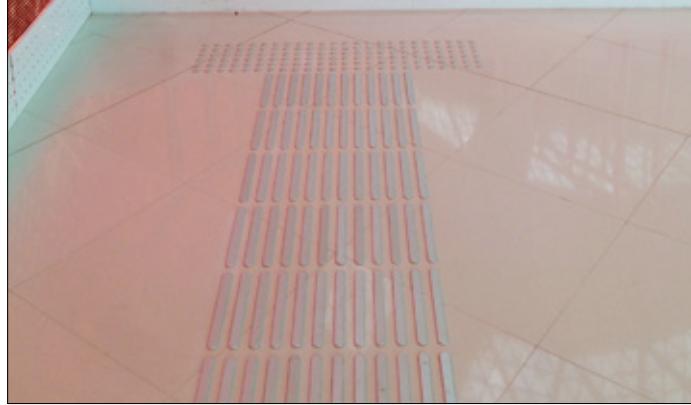
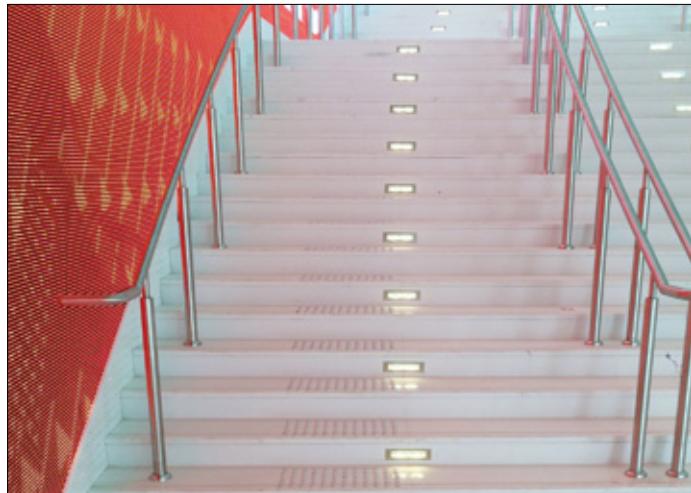


option tige M4 sur demande  
screw M4 option on request  
16mm / 30mm



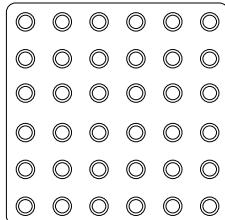
cedo D

option gravure sur demande  
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**cedo A CS**

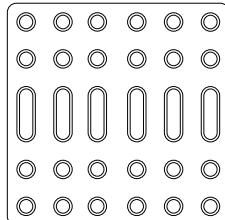
w 300 x h 300 x d 8 mm  
w 11,81 x h 11,81 x d 0,31"



EPDM: injection polypropylène  
injection molding EPDM

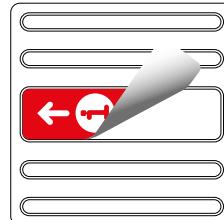
**cedo B CS**

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**cedo C CS**

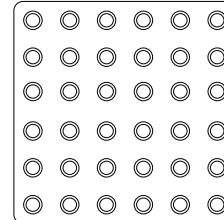
w 300 x h 300 x d 8 mm  
w 11,81 x h 11,81 x d 0,31"



option adhésif sur demande  
sticker option on request

**cedo A mono**

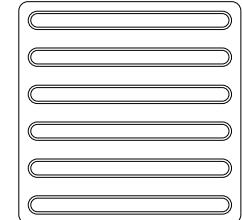
w 300 x h 300 x d 8 mm  
w 11,81 x h 11,81 x d 0,31"



EPDM: injection polypropylène  
injection molding EPDM

**cedo D mono**

w 300 x h 300 x d 8 mm  
w 11,81 x h 11,81 x d 0,31"



**cedo A CS3**

(+/- RAL 7016 + RAL 1018)

**cedo A CS1**

(+/- RAL 7035 + RAL 7016)



**cedo B CS3**

(+/- RAL 7016 + RAL 1018)

**cedo B CS1**

(+/- RAL 7035 + RAL 7016)



**cedo C CS3**

(+/- RAL 7016 + RAL 1018)

**cedo C CS1**

(+/- RAL 7035 + RAL 7016)



**cedo A mono 1018**

(+/- RAL 1018)

**cedo A mono 7035**

(+/- RAL 7035)

**cedo A mono 7015**

(+/- RAL 7015)



**cedo D mono 1018**

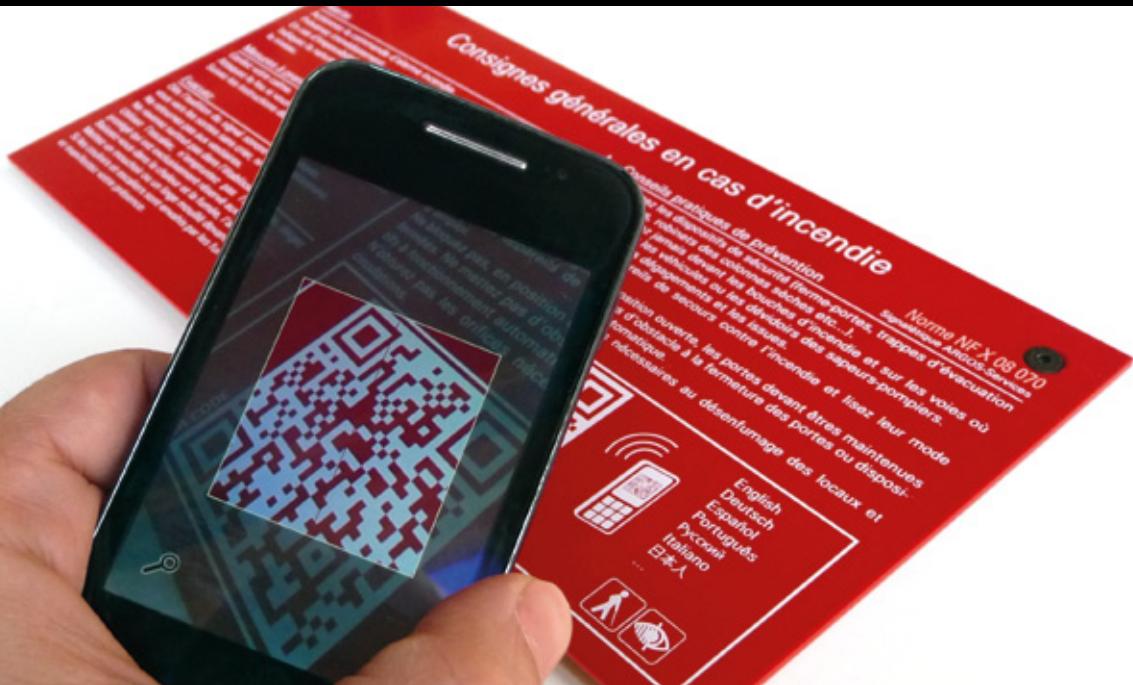
(+/- RAL 1018)

**cedo D mono 7035**

(+/- RAL 7035)

**cedo D mono 7015**

(+/- RAL 7015)



**consign**

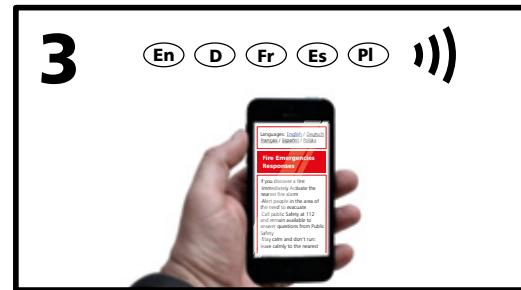
**marcal** full access



**CONSIGN**

w 270 x h 135 x d 2,5mm  
w 10,63 x h 5,31 x d 0,1"

aluminium : laqué époxy rouge sécurité RAL 3001,  
painted safety red, pintado rojo seguridad,  
pinto rosso sicurezza, gemalte sicherheit rot,  
塗られた赤い安全

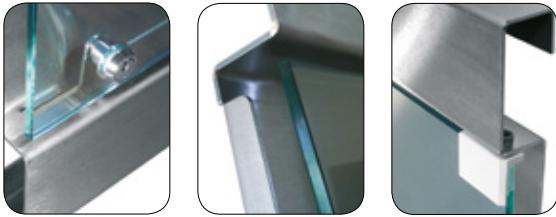


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**delhi**

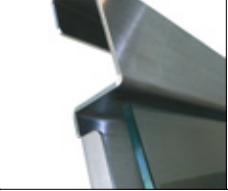
design tecton



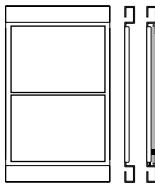
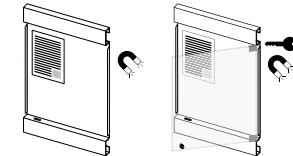


inox | stainless steel, acero inoxidable, acciaio inox, Edelstahl, ステンレス  
verre trempé | tempered glass, vidrio templado, vetro temperato,  
gehärtetem glas, 強化ガラス

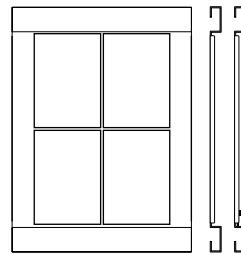




option bultinboard sur demande  
bultinboard option on request



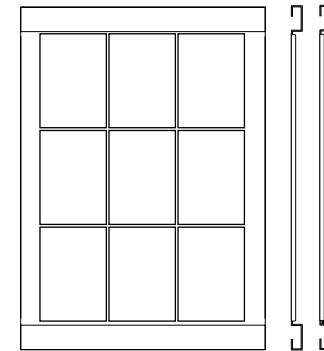
**delhi 300** [1 x A3 / 2xA4]  
w 320 x h 540 x d 30mm  
w 12,59 x h 21,26 x d 1,18"



**delhi 400** [4 x A4]  
w 550 x h 750 x d 30mm  
w 21,65 x h 29,53 x d 1,18"

**delhi 310** [1 x A3]  
w 320 x h 540 x d 30mm  
w 12,59 x h 21,26 x d 1,18"

**delhi 410** [4 x A4]  
w 550 x h 750 x d 30mm  
w 21,65 x h 29,53 x d 1,18"

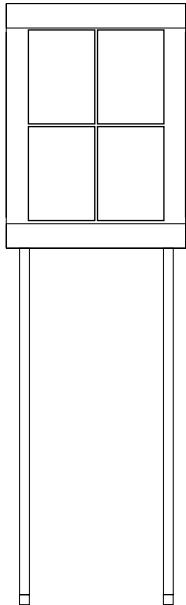
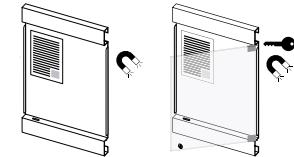


**delhi 900** [9 xA4]  
w 750 x h 1050 x d 30mm  
w 29,53 x h 41,34 x d 1,18"

**delhi 910** [9 xA4]  
w 750 x h 1050 x d 30mm  
w 29,53 x h 41,34 x d 1,18"

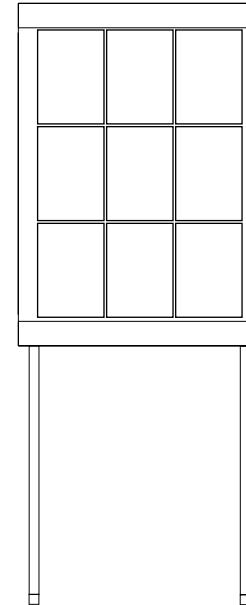
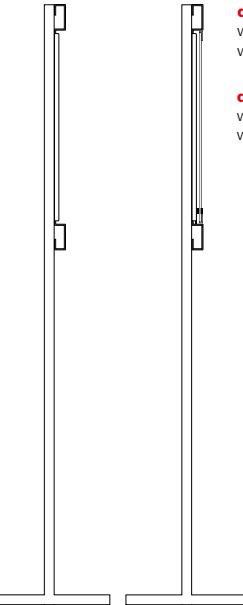


option bultinboard sur demande  
builtinboard option on request



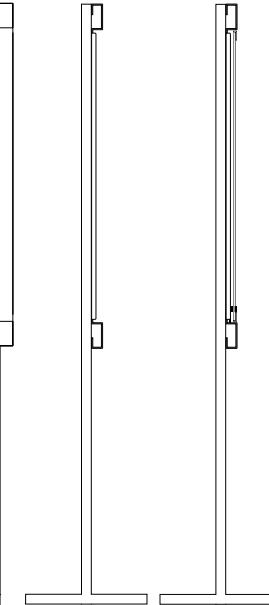
**delhi 400 SS L** [4 x A4]  
w 550 x h 1800 x d 500mm  
w 21,65 x h 70,87 x d 19,69"

**delhi 410 SS L** [4 x A4]  
w 550 x h 1800 x d 500mm  
w 21,65 x h 70,87 x d 19,69"

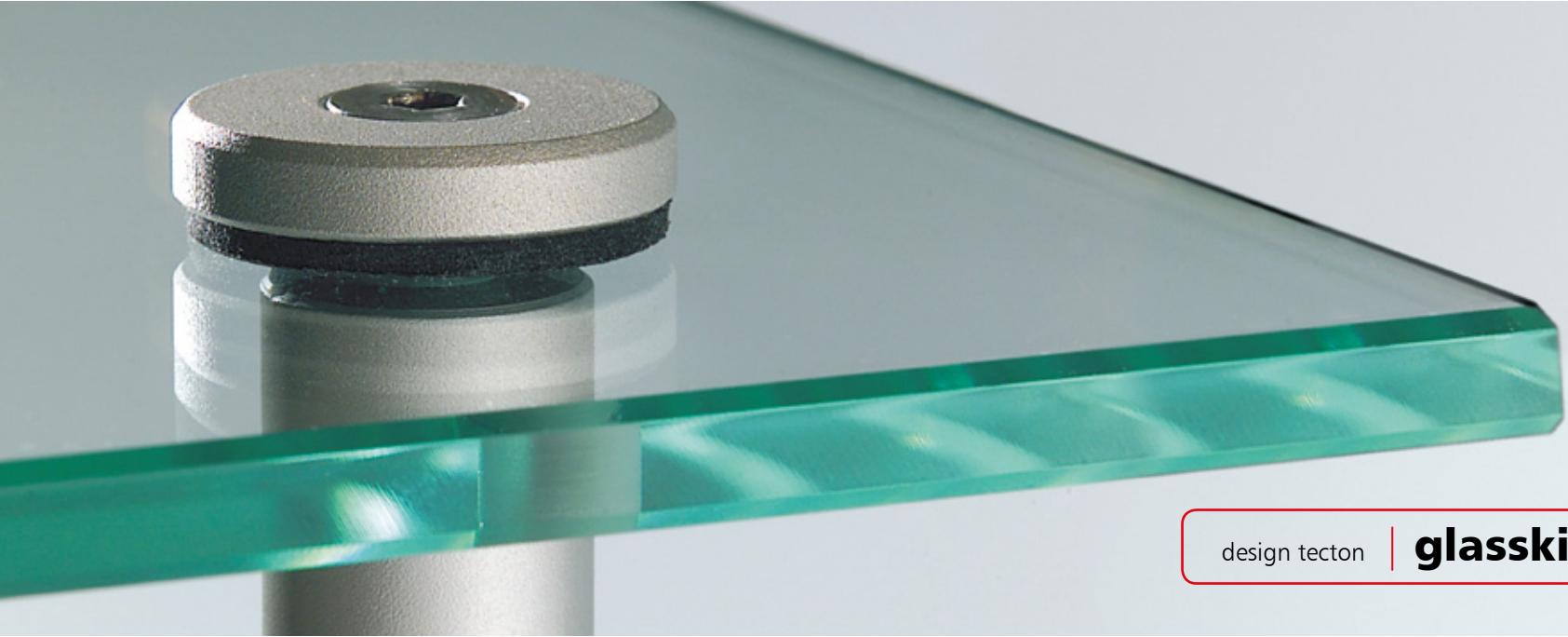


**delhi 900 SS L** [9 xA4 ]  
w 750 x h 1800 x d 500mm  
w 29,53 x h 70,87 x d 19,69"

**delhi 910 SS L** [9 xA4 ]  
w 750 x h 1800 x d 500mm  
w 29,53 x h 70,87 x d 19,69"

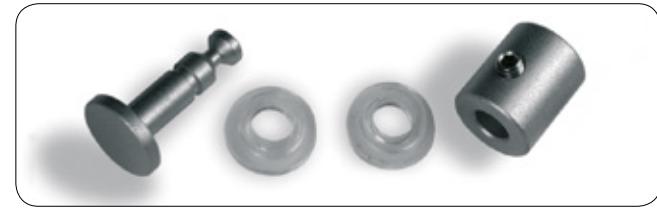


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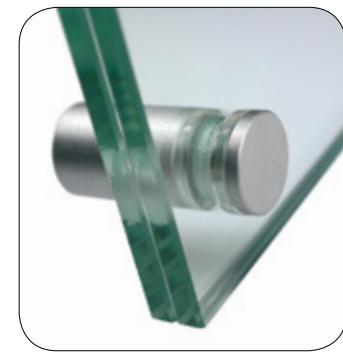


design tecton

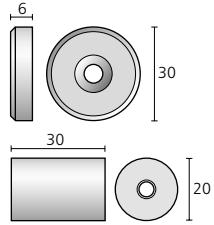
**glasskit**



aluminium | アルミニウム  
verre trempé | tempered glass,  
vidrio templado, vetro temperato, gehärtetem glas, 強化ガラス

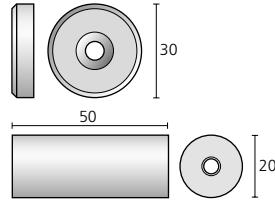


inox | stainless steel, acero inoxidable, acciaio inox, Edelstahl, ステンレス  
verre trempé | tempered glass, vidrio templado, vetro temperato,  
gehärtetem glas, 強化ガラス



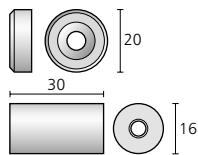
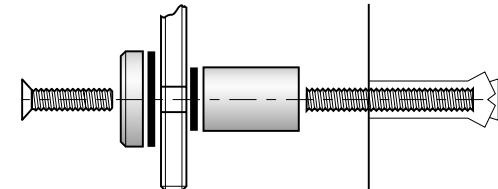
**kit A 30**

$\varnothing 30 \times d 6 - \varnothing 20 \times d 30\text{mm}$   
 $\varnothing 1,18 \times d 0,24" - \varnothing 0,79 \times d 1,18"$



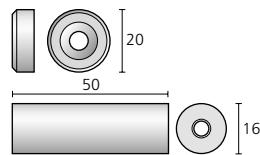
**kit A 50**

$\varnothing 30 \times d 6 - \varnothing 20 \times d 50\text{mm}$   
 $\varnothing 1,18 \times d 0,24" - \varnothing 0,79 \times d 1,97"$



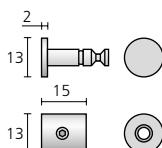
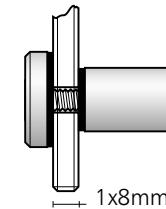
**kit B 30**

$\varnothing 20 \times d 6 - \varnothing 16 \times d 30\text{mm}$   
 $\varnothing 0,79 \times d 0,24" - \varnothing 0,63 \times d 1,18"$



**kit B 50**

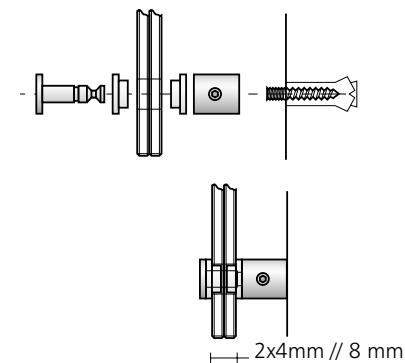
$\varnothing 20 \times d 6 - \varnothing 16 \times d 50\text{mm}$   
 $\varnothing 0,79 \times d 0,24" - \varnothing 0,63 \times d 1,97"$

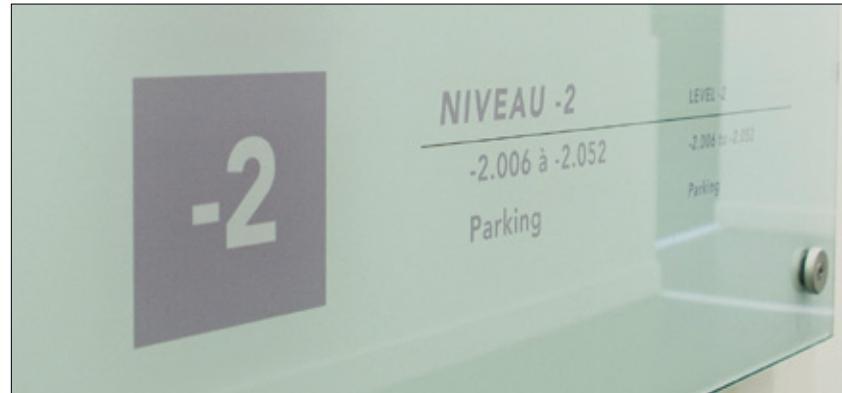


**kit C 15**

$\varnothing 13 \times d 2\text{mm}$   
 $\varnothing 13 \times d 15\text{mm}$

$\varnothing 0,51 \times d 0,08"$   
 $\varnothing 0,51 \times d 0,59"$







**kit VV 101**

[w 130 x h 130 x d 4mm] x 2  
[w 5,12 x h 5,12 x d 0,16"] x 2



**kit V 101**

w 130 x h 130 x d 8mm  
w 5,12 x h 5,12 x d 0,31"



**kit VV 801**

[w 130 x h 130 x d 4mm] x 2  
[w 5,12 x h 5,12 x d 0,16"] x 2



**kit VV A4**

[w 210 x h 297 x d 4mm] x 2  
[w 8,27 x h 11,69 x d 0,16"] x 2



**kit V A4**

w 210 x h 297 x d 8mm  
w 8,27 x h 11,69 x d 0,31"



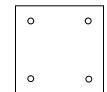
**kit VV A3**

[w 420 x h 297 x d 4mm] x 2  
[w 16,54 x h 11,69 x d 0,16"] x 2



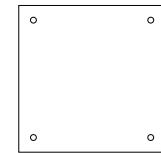
**kit V A3**

w 420 x h 297 x d 8mm  
w 16,54 x h 11,69 x d 0,31"



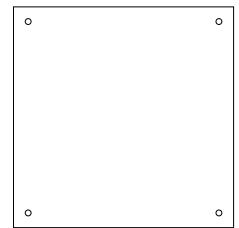
**kit 103 V**

w 300 x h 300 x d 8mm  
w 11,8 x h 11,8 x d 0,31"



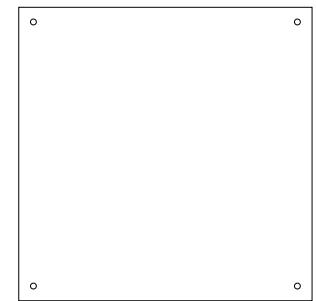
**kit 105 V**

w 500 x h 500 x d 8mm  
w 19,69 x h 19,69 x d 0,31"



**kit 107 V**

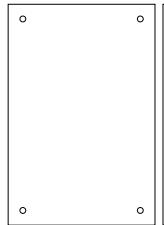
w 750 x h 750 x d 8mm  
w 29,53 x h 29,53 x d 0,31"



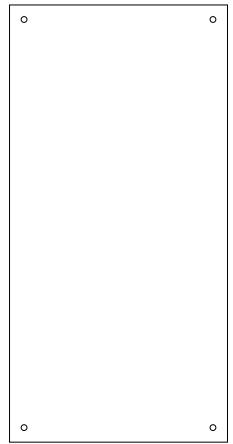
**kit 110 V**

w 1000 x h 1000 x d 8mm  
w 39,37 x h 39,37 x d 0,31"

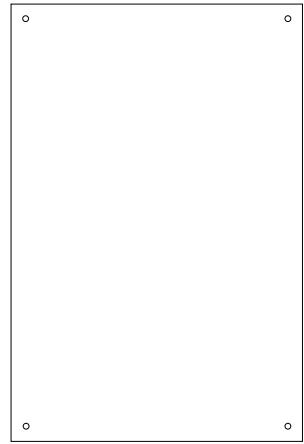




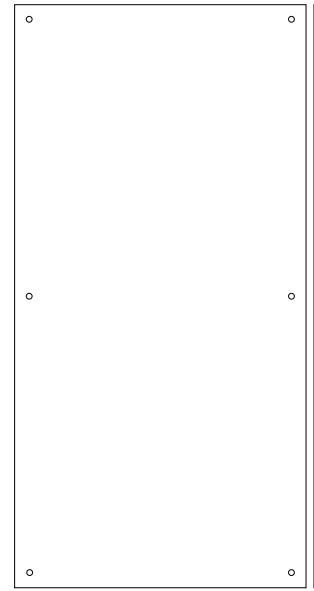
**kit 106 V**  
w 500 x h 750 x d 8mm  
w 19,69 x h 29,53 x d 0,31"



**kit 113 V**  
w 750 x h 1500 x d 8mm  
w 29,53 x h 59,06 x d 0,31"

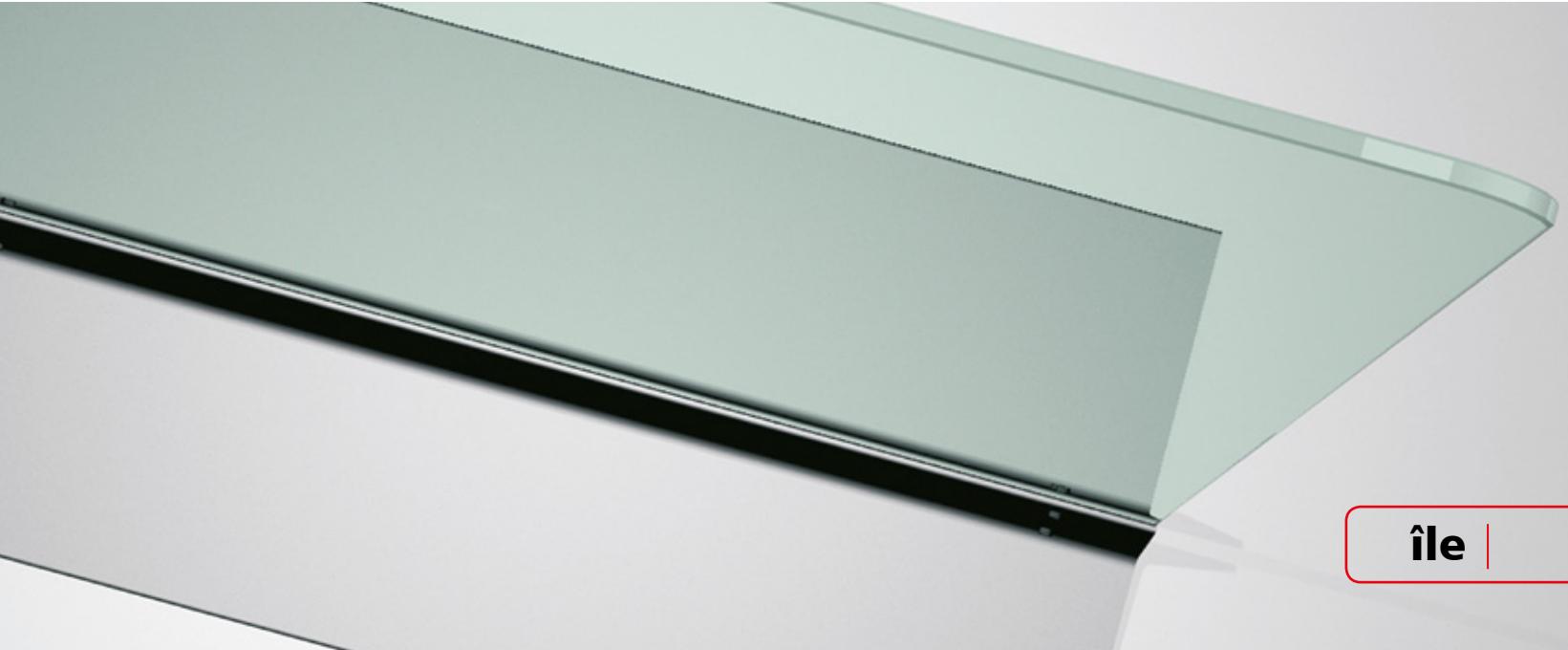


**kit 115 V**  
w 1000 x h 1500 x d 8mm  
w 39,37 x h 59,06 x d 0,31"



**kit 120 V**  
w 1000 x h 2000 x d 8mm  
w 39,37 x h 78,74 x d 0,31"

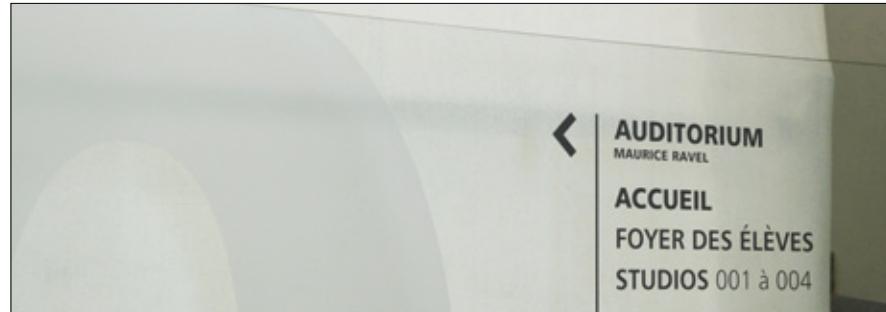
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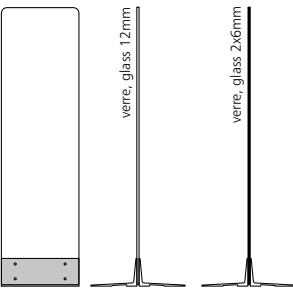


île



aluminium | アルミ  
verre trempé | tempered glass,  
vidrio templado, vetro temperato, gehärtetem glas, 強化ガラス



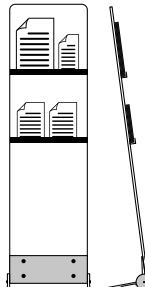


**ile 212 S**

w 420 x h 1500 x d 512mm  
w 16,53 x h 59,06 x d 20,15"

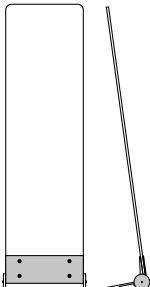
**ile 112 S**

w 420 x h 1500 x d 512mm  
w 16,53 x h 59,06 x d 20,15"



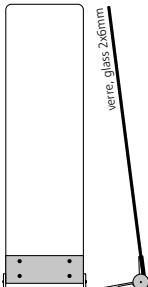
**ile 212 E**

w 420 x h 1500 x d 268mm  
w 16,53 x h 59,06 x d 10,55"



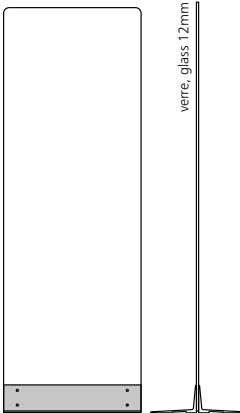
**ile 212 D**

w 420 x h 1500 x d 268mm  
w 16,53 x h 59,06 x d 10,55"



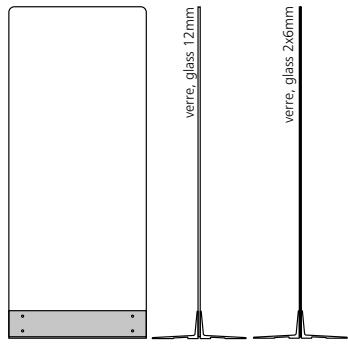
**ile 112 D**

w 420 x h 1500 x d 268mm  
w 16,53 x h 59,06 x d 10,55"



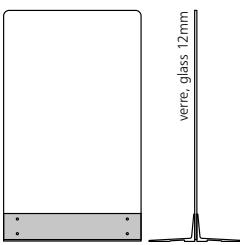
**ile 224 S**

w 750 x h 2200 x d 512mm  
w 29,52 x h 86,61 x d 20,15"



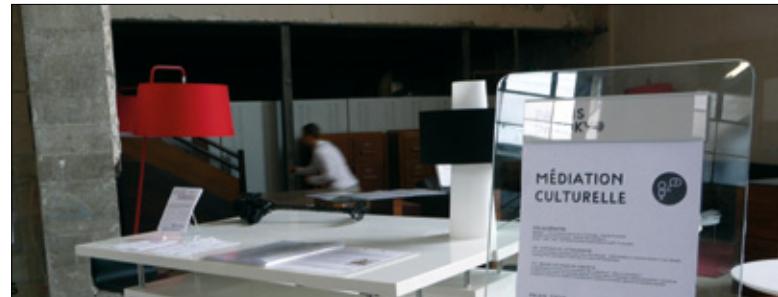
**ile 223 S**

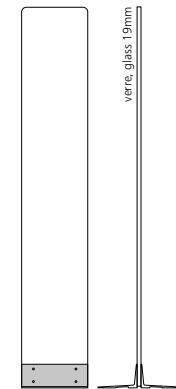
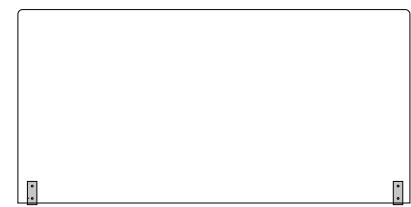
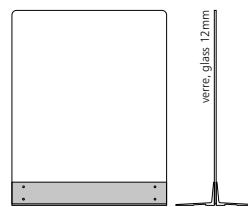
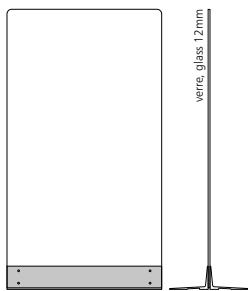
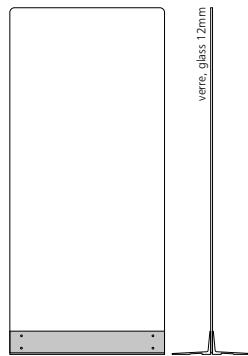
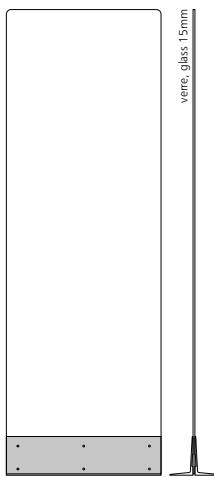
w 750 x h 1800 x d 512mm  
w 29,52 x h 70,86 x d 20,15"



**ile 221 S**

w 750 x h 1250 x d 512mm  
w 29,52 x h 49,21 x d 20,15"





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## kourouma

**marcal** full access  
■ ● ◎ □





aluminium : laqué époxy vert sécurité  
RAL 6032 + PVC photoluminescent,  
epoxy safety green,  
lacado epoxi verde seguridad,  
epoxy verde sicurezza,  
gemalte sicherheit grüne epoxy,  
塗られた緑の安全



**kour R**  
w 180 x h 90 x d 2,5mm  
w 7,09 x h 3,54 x d 0,10"



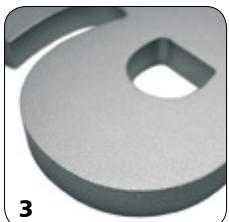
**kour RH**  
w 180 x h 180 x d 2,5mm  
w 7,09 x h 7,09 x d 0,10"

**kour RD**  
w 180 x h 90 x d 2,5mm  
w 7,09 x h 3,54 x d 0,10"

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**lettre**



1 inox brossé, brushed stainless steel, acero inoxidable, acciaio inox, Edelstahl, ステンレス | **2 mm**

2 aluminium : anodisé naturel, natural anodized, anodizado natural, anodizzato naturale,  
naturfarben eloxiertes, アルミニナチュラル | **3 mm**

3 aluminium : microbillé anodisé naturel, micro-sand blasted natural anodized, micro-arenado anodizado natural,  
anodizzato naturale micro-sabbiato,mikro-sandgestrahlt naturfarben eloxiert, アルミマイクロサンド | **8 mm**

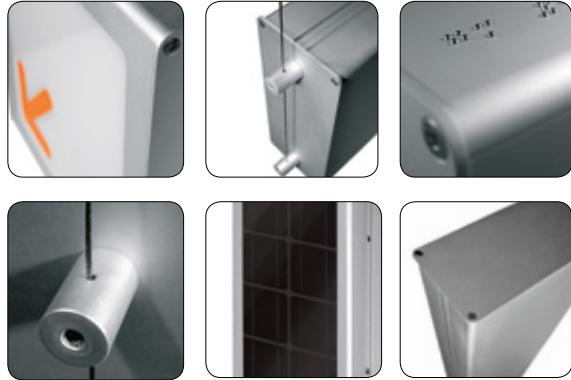




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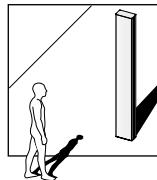
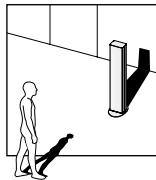
design roviras y torrente

link

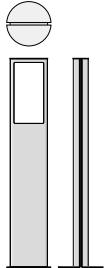


aluminium | アルミ



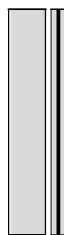


Ø 300mm (11,81")



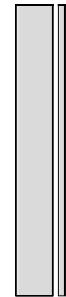
#### **link 644 A3**

w 250 x h 1400 x d 100 (200x400)mm  
w 9,84 x h 55,12 x d 3,94 (7,87x15,75)"



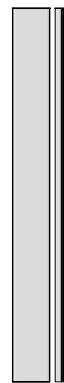
#### **link 645**

w 250 x h 1500 x d 100mm  
w 9,84 x h 59,06 x d 3,94"



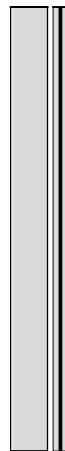
#### **link 655**

w 250 x h 2000 x d 100mm  
w 9,84 x h 78,74 x d 3,94"



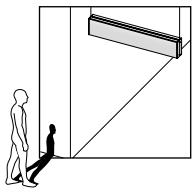
#### **link 685**

w 250 x h 2500 x d 100mm  
w 9,84 x h 98,43 x d 3,94"



#### **link 695**

w 250 x h 3000 x d 100mm  
w 9,84 x h 118,11 x d 3,94"



#### **link 263**

w 1500 x h 100 x d 46,6mm  
w 59,06 x h 3,94 x d 1,83"

#### **link 273**

w 2000 x h 100 x d 46,6mm  
w 78,74 x h 3,94 x d 1,83"

#### **link 283**

w 2500 x h 100 x d 46,6mm  
w 98,43 x h 3,94 x d 1,83"

#### **link 293**

w 3000 x h 100 x d 46,6mm  
w 118,11 x h 3,94 x d 1,83"

#### **link 463**

w 1500 x h 150 x d 100mm  
w 59,06 x h 5,91 x d 3,94"

#### **link 473**

w 2000 x h 150 x d 100mm  
w 78,74 x h 5,91 x d 3,94"

#### **link 483**

w 2500 x h 150 x d 100mm  
w 98,43 x h 5,91 x d 3,94"

#### **link 493**

w 3000 x h 150 x d 100mm  
w 118,11 x h 5,91 x d 3,94"

#### **link 663**

w 1500 x h 250 x d 100mm  
w 59,06 x h 9,84 x d 3,94"

#### **link 673**

w 2000 x h 250 x d 100mm  
w 78,74 x h 9,84 x d 3,94"

#### **link 683**

w 2500 x h 250 x d 100mm  
w 98,43 x h 9,84 x d 3,94"

#### **link 693**

w 3000 x h 250 x d 100mm  
w 118,11 x h 9,84 x d 3,94"



#### **link 463 C6**

w 1500 x h 150 x d 100 (1150x110)mm  
w 59,06 x h 5,91 x d 3,94 (45,28x4,33)"

#### **link 473 C7**

w 2000 x h 150 x d 100 (1450x110)mm  
w 78,74 x h 5,91 x d 3,94 (57,09x4,33)"

#### **link 483 C8**

w 2500 x h 150 x d 100 (2050x110)mm  
w 98,43 x h 5,91 x d 3,94 (80,71x4,33)"

#### **link 493 C9**

w 3000 x h 150 x d 100 (2350x110)mm  
w 118,11 x h 5,91 x d 3,94 (92,52x4,33)"

#### **link 663 C6**

w 1500 x h 250 x d 100 (1150x200)mm  
w 59,06 x h 9,84 x d 3,94 (45,28x7,87)"

#### **link 673 C7**

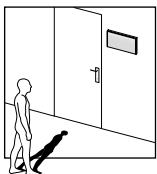
w 2000 x h 250 x d 100 (1450x200)mm  
w 78,74 x h 9,84 x d 3,94 (57,09x7,87)"

#### **link 683 C8**

w 2500 x h 250 x d 100 (2050x200)mm  
w 98,43 x h 9,84 x d 3,94 (80,71x7,87)"

#### **link 693 C9**

w 3000 x h 250 x d 100 (2350x200)mm  
w 118,11 x h 9,84 x d 3,94 (92,52x7,87)"



**link 111**

w 100 x h 100 x d 23,3mm | w 3,94 x h 3,94 x d 0,92"



**link 121**

w 150 x h 100 x d 23,3mm | w 5,91 x h 3,94 x d 0,92"



**link 131**

w 240 x h 100 x d 23,3mm | w 9,45 x h 3,94 x d 0,92"



**link 141**

w 440 x h 100 x d 23,3mm | w 17,32 x h 3,94 x d 0,92"



**link 111 B1**

w 100 x h 100 x d 23,3 (60x60)mm | w 3,94 x h 3,94 x d 0,92 (2,36x2,36)"



**link 121 B1**

w 150 x h 100 x d 23,3 (60x60)mm | w 5,91 x h 3,94 x d 0,92 (2,36x2,36)"



**link 131 B2**

w 240 x h 100 x d 23,3 (200x60)mm | w 9,45 x h 3,94 x d 0,92 (7,87x2,36)"



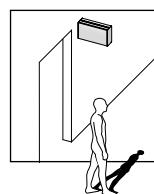
**link 141 B3**

w 440 x h 100 x d 23,3 (400x60)mm | w 17,32 x h 3,94 x d 0,92 (15,75x2,36)"



**link 128 B1**

w 150 x h 100 x d 23,3 (60x60)mm | w 5,91 x h 3,94 x d 0,92 (2,36x2,36)"



**link 412**

w 150 x h 150 x d 100mm | w 5,91 x h 5,91 x d 3,94"



**link 422**

w 240 x h 150 x d 100mm | w 9,45 x h 5,91 x d 3,94"



**link 612**

w 250 x h 250 x d 100mm | w 9,84 x h 9,84 x d 3,94"



**link 632**

w 450 x h 250 x d 100mm | w 17,72 x h 9,84 x d 3,94"



**LED**

**link 412 C1**

w 150 x h 150 x d 100 (110x110)mm | w 5,91 x h 5,91 x d 3,94 (4,33x4,33)"



**link 422 C1**

w 240 x h 150 x d 100 (110x110)mm | w 9,45 x h 5,91 x d 3,94 (4,33x4,33)"



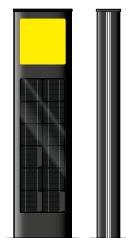
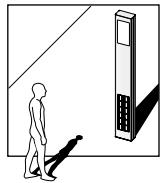
**link 612 C1**

w 250 x h 250 x d 100 (200x200)mm | w 9,84 x h 9,84 x d 3,94 (7,87x7,87)"



**link 632 C1**

w 450 x h 250 x d 100 (200x200)mm | w 17,72 x h 9,84 x d 3,94 (7,87x7,87)"



**link 635 PV**  
w 250 x h 1000 x d 100mm  
w 9,84 x h 39,37 x d 3,94"



**link 655 PV**  
w 250 x h 2000 x d 100mm  
w 9,84 x h 78,74 x d 3,94"



**link 695 PV**  
w 250 x h 3000 x d 100mm  
w 9,84 x h 118,11 x d 3,94"

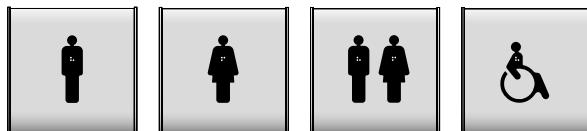


peint époxy noir, black powder coated,  
pintura epoxi negro, vernice epossidica nera,  
schwarz pulverbeschichtet, 黑塗装

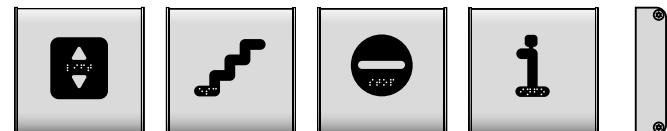
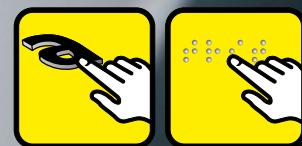
option charte RAL sur demande  
RAL range on request



## marcal full access



**link 111 full access**  
w 100 x h 100 x d 23,3mm  
w 3,94 x h 3,94 x d 0,92"



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## littera

marcal full access





**SS**

inox brossé,  
brushed stainless steel, acero inoxidable mate,  
acciaio inox spazzolato,  
edelstahl, ステンレスヘアライン



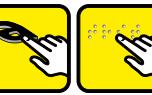
**LP**

laiton poli miroir,  
mirror polished brass, latón pulido brillante,  
ottone lucidato,  
glänzend poliert messing, 黄銅 アルミポリッシュ



**RN**

(RAL 9005) : peint époxy noir,  
black powder coated, pintura epoxi negro,  
vernice epossidica nera,  
schwarz pulverbeschichtet, 黒塗装





## littera 50

(h 50 x d 2mm)

A B C D E F G H I J K L M N O P Q  
R S T U V W X Y Z

LIT50 SS A, B, C, D, E,...

LIT50 LP A, B, C, D, E,...

LIT50 RN A, B, C, D, E,...

1 2 3 4 5 6 7 8 9 0

LIT50 SS 1, 2, 3, 4, 5,...

LIT50 LP 1, 2, 3, 4, 5,...

LIT50 RN 1, 2, 3, 4, 5,...



A 1





## littera 100

(h 100 x d 2mm)

1 2 3 4 5 6 7 8 9 0

LIT100 SS 1, 2, 3, 4, 5,...

LIT100 LP 1, 2, 3, 4, 5,...

LIT100 RN 1, 2, 3, 4, 5,...

A B C D E F G H I J

K L M N O P Q R

S T U V W X Y Z

LIT100 SS A, B, C, D, E,...

LIT100 LP A, B, C, D, E,...

LIT100 RN A, B, C, D, E,...



LIT 100 SS PH  
LIT 100 LP PH  
LIT 100 RN PH



LIT 100 SS PF  
LIT 100 LP PF  
LIT 100 RN PF



LIT 100 SS PHA  
LIT 100 LP PHA  
LIT 100 RN PHA



LIT 100 SS PS  
LIT 100 LP PS  
LIT 100 RN PS



LIT 100 SS PA  
LIT 100 LP PA  
LIT 100 RN PA



LIT 100 SS PE  
LIT 100 LP PE  
LIT 100 RN PE



LIT 100 SS PI  
LIT 100 LP PI  
LIT 100 RN PI



LIT 100 SS PFL  
LIT 100 LP PFL  
LIT 100 RN PFL



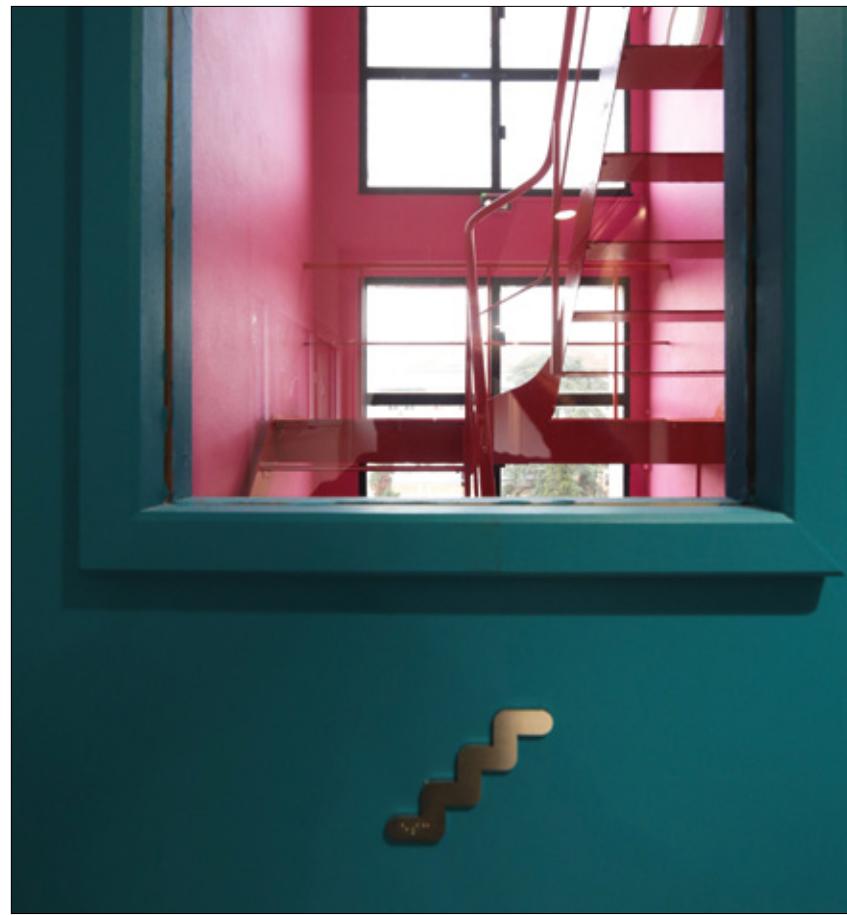
LIT 100 SS PC  
LIT 100 LP PC  
LIT 100 RN PC

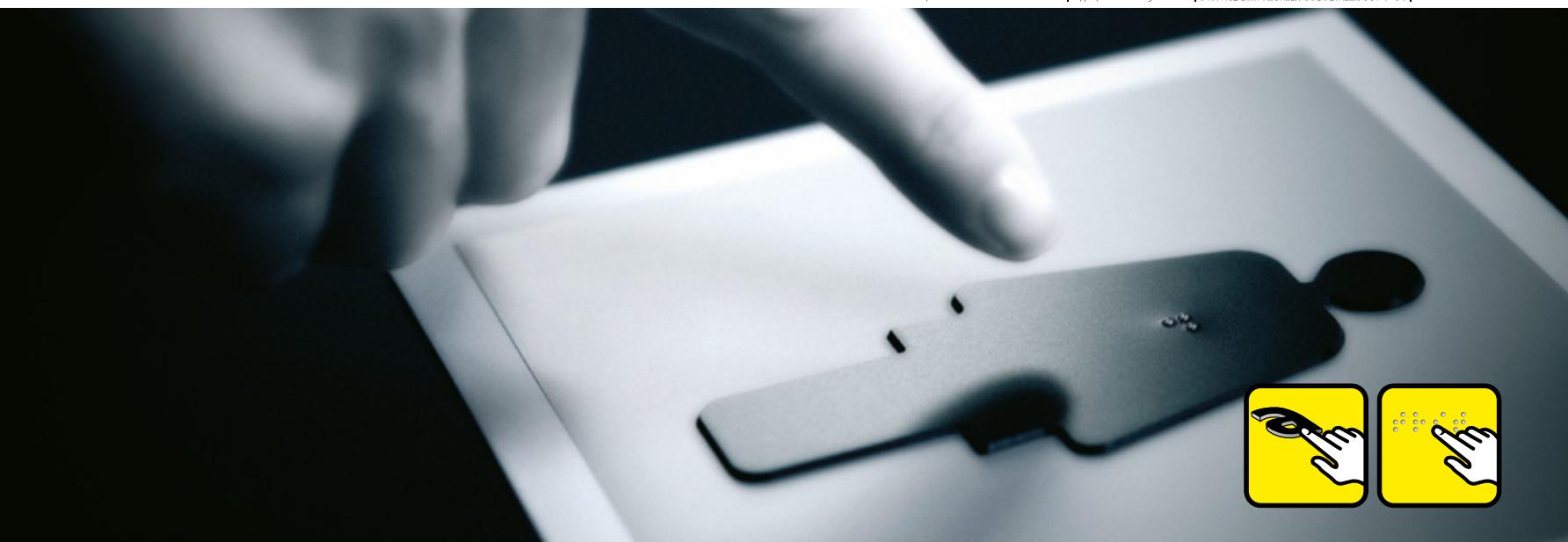


LIT 100 SS PV  
LIT 100 LP PV  
LIT 100 RN PV



LIT 100 SS PNF  
LIT 100 LP PNF  
LIT 100 RN PNF





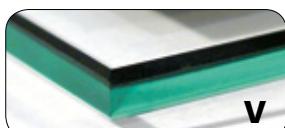
## littera 150

w 150 x h 150mm

5,90 x h 5,90"



aluminium: anodisé naturel  
natural anodized, anodizado natural,  
anodizzato naturale,  
naturfarben eloxiert,  
アルミニナチュラル



verre trempé, arêtes abattues, chants polis  
polished and chamfered edges,  
tempered glass sheet,  
vidrio templado con cantos pulidos y  
aristas biseladas, vetro temperato,  
bordi levigati e spigoli smussati,  
gehärteten Glas (ESG)  
kanten poliert Ecken gestoßen, 強化ガラス



LIT 150 A FL  
LIT 150 A C



LIT 150 V C  
LIT 150 A V



LIT 150 V V  
LIT 150 A H



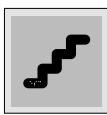
LIT 150 V NF  
LIT 150 A NF



LIT 150 V S  
LIT 150 A S



LIT 150 A AA



LIT 150 V E  
LIT 150 A E



LIT 150 V I  
LIT 150 A I



LIT 150 V H  
LIT 150 A H



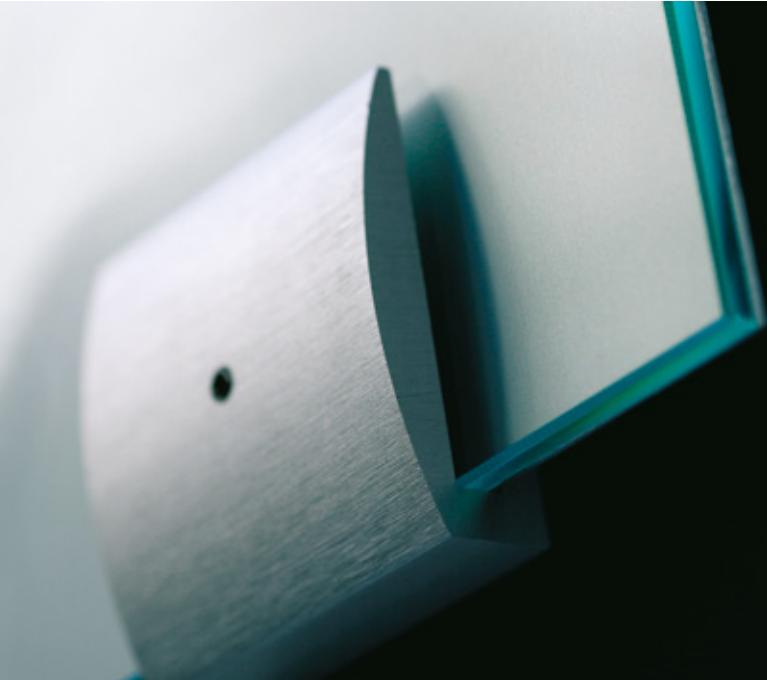
LIT 150 V F  
LIT 150 A F



LIT 150 V HF  
LIT 150 A HF



LIT 150 V HA  
LIT 150 A HA



design gérard plénacoste

**opalescent**



aluminium | アルミ

verre trempé | tempered glass,  
vidrio templado, vetro temperato, gehärtetem glas, 強化ガラス



aluminium : poli miroir

mirror polished, pulido brillante, lucidato,  
glänzend poliert, アルミポリッシュ



aluminium : brossé anodisé naturel

natural anodized brushed, anodizado natural cepillado,  
spazzolato anodizzato naturale, アルミヘアライン

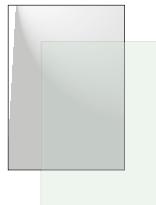


aluminium : microbille anodisé naturel

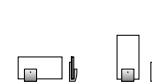
natural anodized micro-sand blasted,  
micro-arenado anodizado natural, micro-sabbiato anodizzato naturale,  
mikro-sandgestrahlt naturfarben eloxiert, アルミマイクロサンド







+ aluminium | アルミ  
verre | glass, vidrio, vetro, Glas, ガラス  
**opa 100**



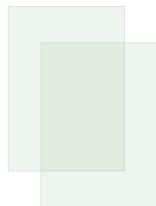
**opa 301 V**  
w 90 x h 45 x d 17mm  
w 3,54 x h 1,77 x d 0,67"



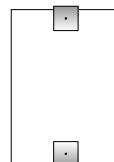
**opa 102 V**  
w 150 x h 75 x d 17mm  
w 5,91 x h 2,95 x d 0,67"



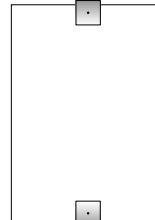
**opa 103 V**  
w 150 x h 150 x d 17mm  
w 5,91 x h 5,91 x d 0,67"



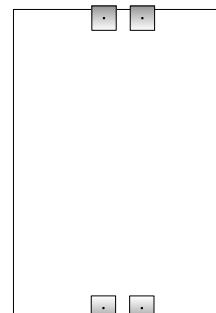
+ verre | glass, vidrio, vetro, Glas, ガラス  
verre | glass, vidrio, vetro, Glas, ガラス  
**opa 200**



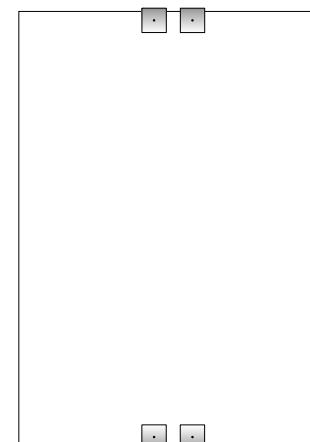
**opa 200 A4 VV**  
w 210 x h 297 x d 22mm  
w 8,27 x h 11,69 x d 0,87"



**opa 200 A3 VV**  
w 297 x h 420 x d 22mm  
w 11,69 x h 16,54 x d 0,87"



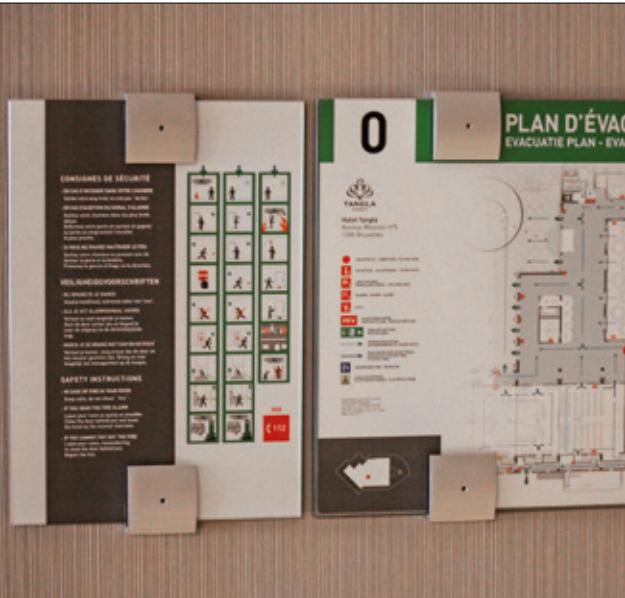
**opa 200 A2 VV**  
w 420 x h 594 x d 22mm  
w 16,54 x h 23,39 x d 0,87"

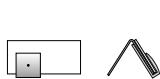


**opa 200 A1 VV**  
w 594 x h 840 x d 22mm  
w 23,39 x h 33,07 x d 0,87"

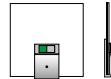
**opa 200 letter VV (US)**  
w 8,5 x h 11 x d 0,87"

**opa 200 tabloid VV (US)**  
w 11 x h 17 x d 0,87"





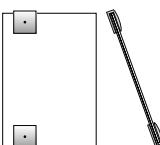
**opa 512 V**  
w 150 x h 75 x d 95mm  
w 5,91 x h 2,95 x d 3,74"



**opa 803 V**  
w 150 x h 150 x d 17mm  
w 5,91 x h 5,91 x d 0,67"



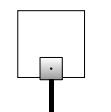
**opa 532 V**  
w 150 x h 75 x d 95mm  
w 5,91 x h 2,95 x d 3,74"



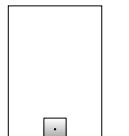
**opa 504 V**  
w 210 x h 297 x d 115mm  
w 8,27 x h 11,69 x d 4,53"



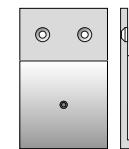
**opa 504 P**  
w 210 x h 297 x d 115  
w 8,27 x h 11,69 x d 4,53"



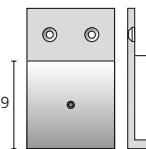
**opa 903**  
w 180 x h 1200 x d 270mm  
(w 150 x h 150mm)  
w 7,09 x h 47,24 x d 10,63"  
(w 5,91 x h 5,91")



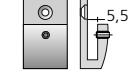
**opa 900 A4**  
w 210 x h 1347 x d 270mm  
(A4 : w 210 x h 297mm)  
w 8,27 x h 53,03 x d 10,63"  
(w 8,27 x h 11,69")



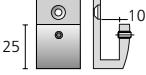
**opa 100**  
w 49 x h 79 x d 17mm  
w 1,93 x h 3,11 x d 0,67"



**opa 200**  
w 49 x h 79 x d 22mm  
w 1,93 x h 3,11 x d 0,87"



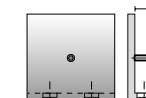
**opa 300**  
w 25 x h 40 x d 17mm  
w 0,98 x h 1,57 x d 0,67"



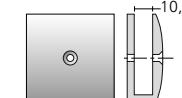
**opa 400**  
w 25 x h 40 x d 22mm  
w 0,98 x h 1,57 x d 0,87"



**opa 500**  
w 49 x h 49 x d 22mm  
w 1,93 x h 1,93 x d 0,87"

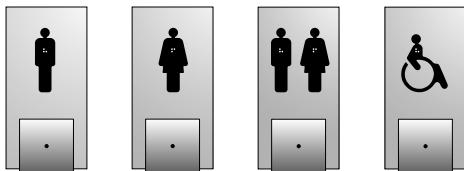
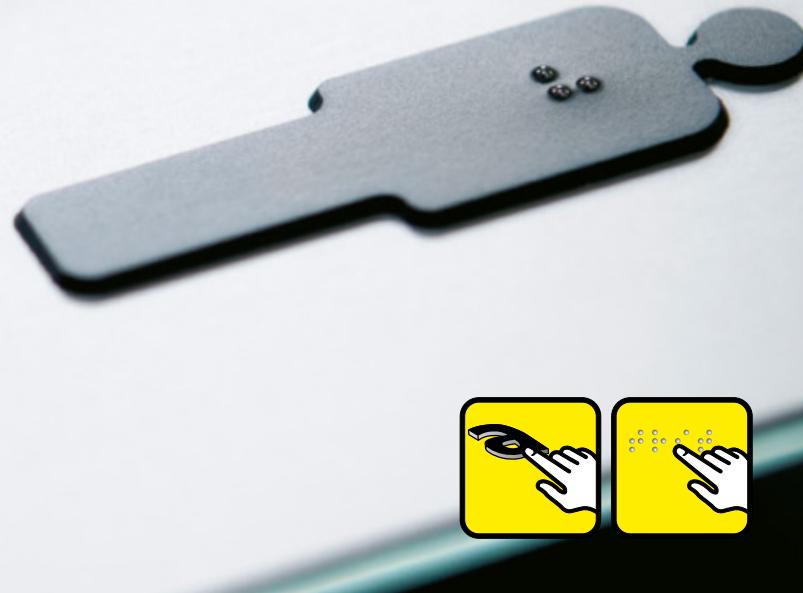


**opa 600**  
w 49 x h 49 x d 22mm  
w 1,93 x h 1,93 x d 0,87"



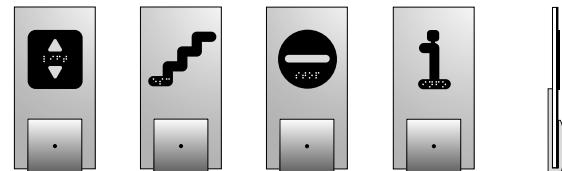
**opa 700**  
w 49 x h 49 x d 22mm  
w 1,93 x h 1,93 x d 0,87"

# marcal full access

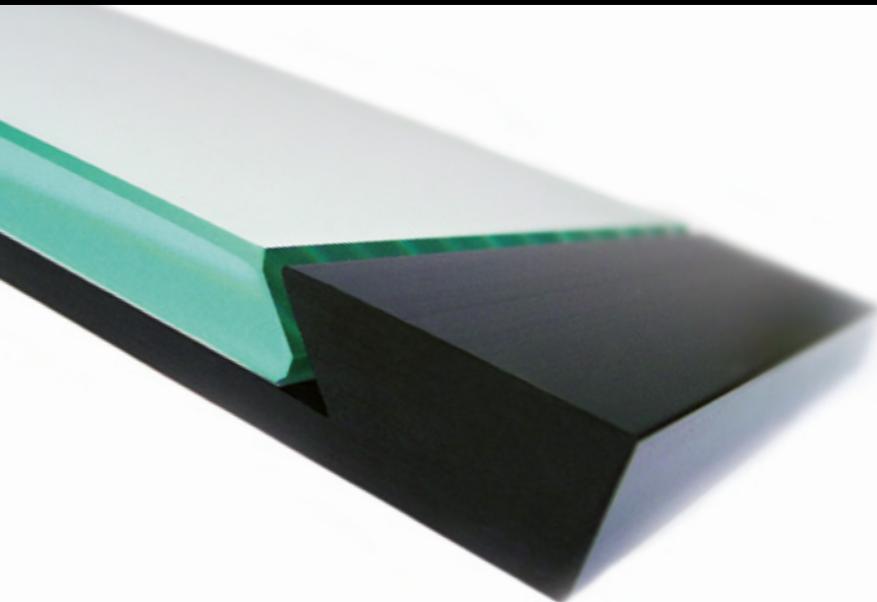


**opa 102 V full access**

w 150 x h 75 x d 17mm  
w 5,91 x h 2,95 x d 0,67"

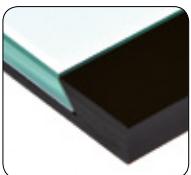
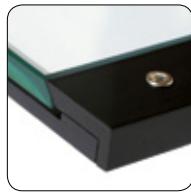
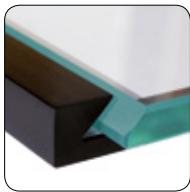


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design tecton

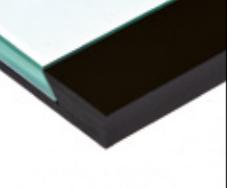
**paris**



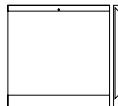
aluminium : anodisé noir  
black anodized, anodizado negro,  
anodizzato nero, eloxiert schwarz, 隔極酸化される黒



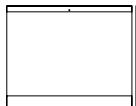
aluminium | アルミニ  
verre trempé | tempered glass, vidrio templado,vetro temperato,  
gehärtetem glas, 強化ガラス



**par 208 V**  
w 80 x h 170 x d 9mm  
w 3,15 x h 6,69 x d 0,35"



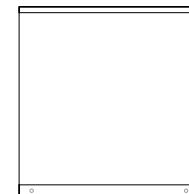
**par 217 V**  
w 170 x h 170 x d 9mm  
w 6,69 x h 6,69 x d 0,35"



**par 221 V**  
w 210 x h 170 x d 9mm  
w 8,27 x h 6,69 x d 0,35"



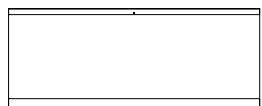
**par 321 V**  
w 210 x h 318 x d 9,5mm  
w 8,27 x h 12,52 x d 0,37"



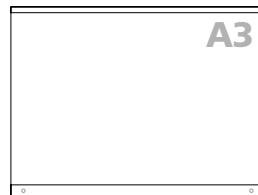
**par 330 V**  
w 297 x h 318 x d 9,5mm  
w 11,69 x h 12,52 x d 0,37"



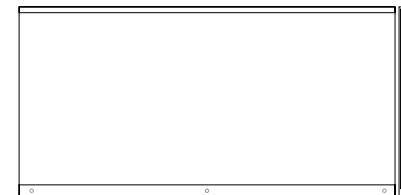
**par 230 V**  
w 297 x h 170 x d 9mm  
w 11,69 x h 6,69 x d 0,35"



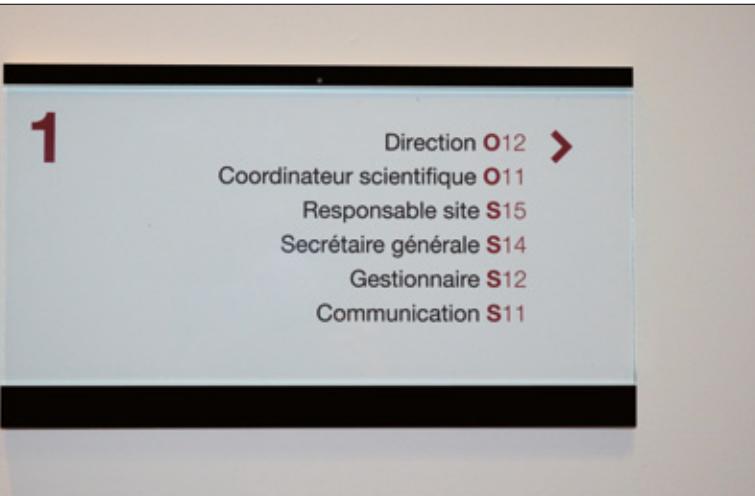
**par 242 V**  
w 420 x h 170 x d 9mm  
w 16,54 x h 6,69 x d 0,35"



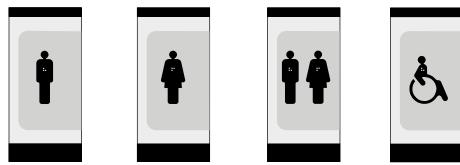
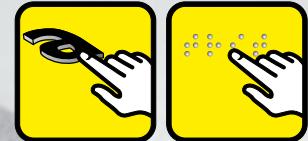
**par 342 V**  
w 420 x h 318 x d 9,5mm  
w 16,54 x h 12,52 x d 0,37"



**par 363 V**  
w 630 x h 318 x d 9,5mm  
w 24,8 x h 12,52 x d 0,37"

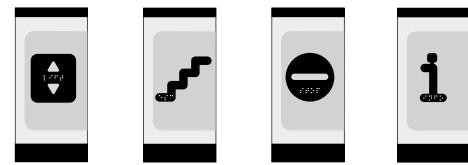


# marcal full access



**par 208 full access**

w 80 x h 170 x d 9mm  
w 3,15 x h 6,69 x d 0,33"



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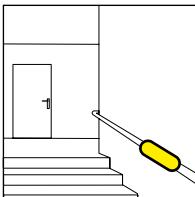
## pasamano

design esteban marino

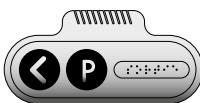
marcal full access



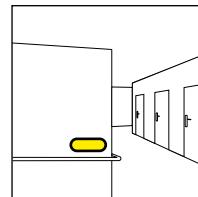
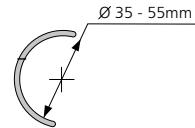




### **pasamano A**



**pasamano A 0, 1, 2, 3, 4,...**  
w 145 x h 80 x d 45 mm  
w 5,70 x h 3,14 x d 1,77"



### **pasamano B**



**pasamano B ASC**  
w 155 x h 60 x d 4 mm  
w 6,10 x h 2,36 x d 0,15"



**pasamano B ESC**  
w 155 x h 60 x d 4 mm  
w 6,10 x h 2,36 x d 0,15"

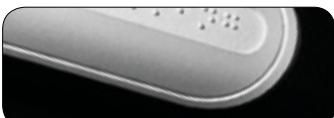


**pasamano B FL**  
w 155 x h 60 x d 4 mm  
w 6,10 x h 2,36 x d 0,15"

### **pasamano C**



**pasamano C**  
w 240 x h 60 x d 4 mm  
w 9,45 x h 2,36 x d 0,15"



#### **pasamano A**

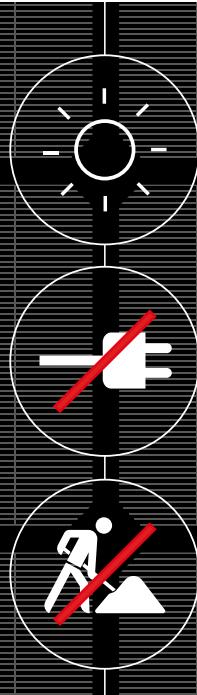
aluminium : microbillé anodisé naturel,  
natural anodized micro-sand blasted,  
micro-arenado anodizado natural,  
micro-sabbato anodizzato naturale,  
mikro-sandgestrahlt naturfarben eloxiert,  
アルミマイクロサンド



#### **pasamano B - C**

aluminium : microbillé anodisé naturel et poli miroir,  
natural anodized micro-sand blasted and mirror polished,  
micro-arenado anodizado natural y pulido brillante  
micro-sabbato anodizzato naturale e lucidato,  
mikro-sandgestrahlt naturfarben eloxiert und glänzend poliert,  
アルミマイクロサンド, アルミボリッシュ

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**pharos**

balise photovoltaïque autonome

marcal©



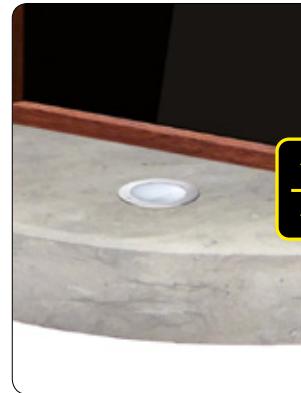
panneau photovoltaïque sur verre trempé  
solar panel (PV) on tempered glass,  
panel fotovoltaico sobre vidrio templado,  
pannello fotovoltaico su vetro temperato,  
photovoltaik-panel auf gehärtetem glas,  
緩和されたガラスの太陽電池パネル

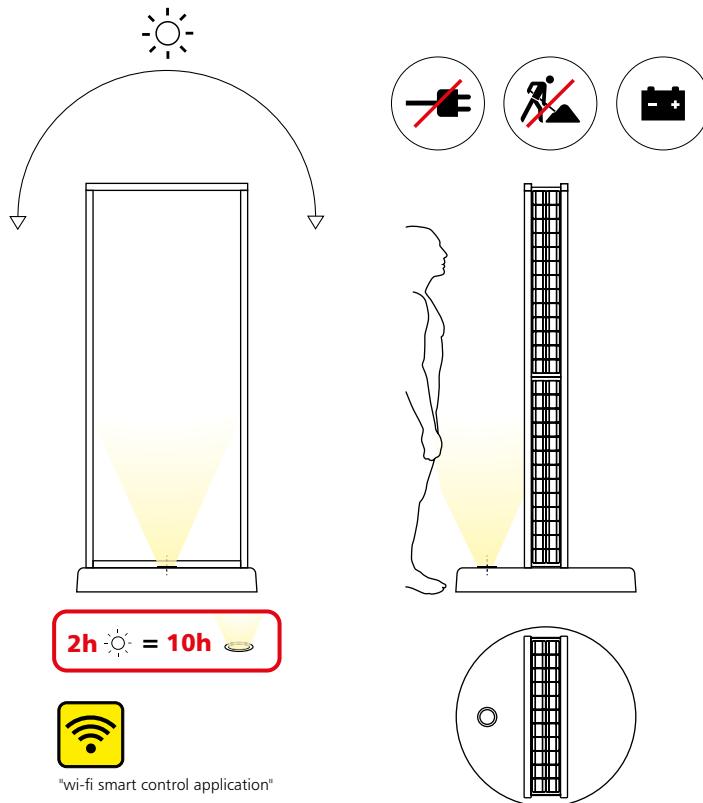


aluminium | アルミ  
verre trempé noir | black tempered glass,  
vidrio templado negro, vetro nero temperato,  
schwarz gehärtetem glas, 黒の強化ガラス

bois classe 4 | class 4 wood,  
madera clase 4, legno di classe 4, typ 4 holz,  
外部で処理された木材

ballast de béton | concrete ballast,  
base contrapeso de hormigón, base di cemento,  
betonballast, コンクリート基礎



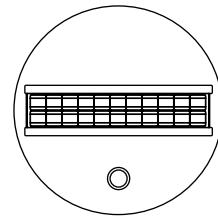
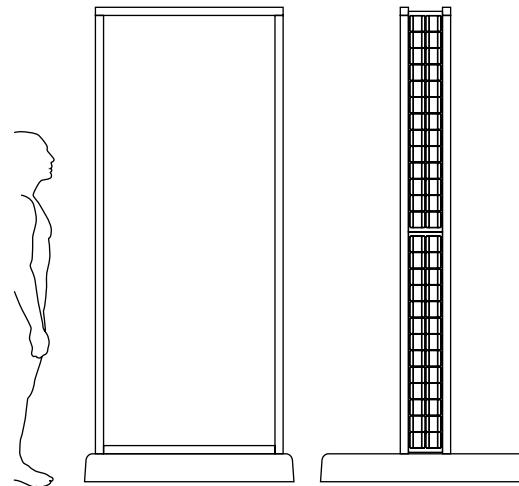


"wi-fi smart control application"



**pharos 820**

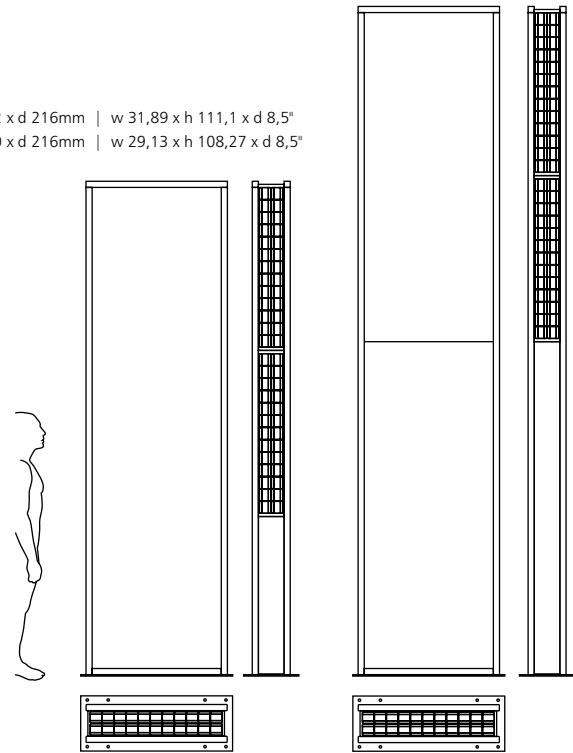
- w 810 x h 1922 x d 216mm | w 31,89 x h 75,67 x d 8,5"
- w 740 x h 1850 x d 216mm | w 29,13 x h 72,83 x d 8,5"



Ø 900mm (35,43")

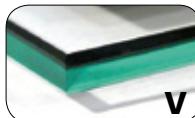
**pharos 840**

- w 810 x h 3822 x d 216mm | w 31,89 x h 150,47 x d 216"
- w 740 x h 3750 x d 216mm | w 29,13 x h 147,64 x d 8,5 "



picto





verre trempé, arêtes abattues, chants polis  
polished and chamfered edges,  
tempered glass sheet,  
vidrio templado con cantos pulidos y  
aristas biseladas, vetro temperato,  
bordi levigati e spigoli smussati,  
gehärteten Glas (ESG)  
kanten poliert Ecken gestoßen, 強化ガラス



aluminium: anodisé naturel  
natural anodized, anodizado natural,  
anodizzato naturale,  
naturfarben eloxiert,  
アルミニナチュラル



**picto 101 V**  
**picto 101 A**



**picto 102 V**  
**picto 102 A**



**picto 103 V**  
**picto 103 A**



**picto 104 V**  
**picto 104 A**



**picto 105 V**  
**picto 105 A**



**picto 201 V**  
**picto 201 A**



**picto 202 V**  
**picto 202 A**



**picto 203 V**  
**picto 203 A**



**picto 204 V**  
**picto 204 A**



**picto 205 V**  
**picto 205 A**



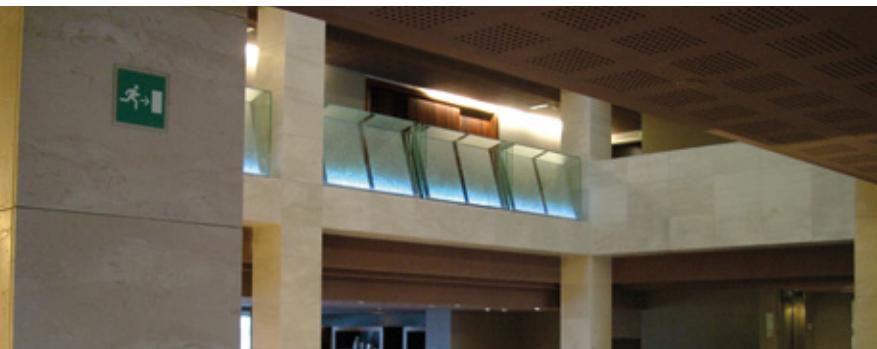
**picto 206 V**  
**picto 206 A**

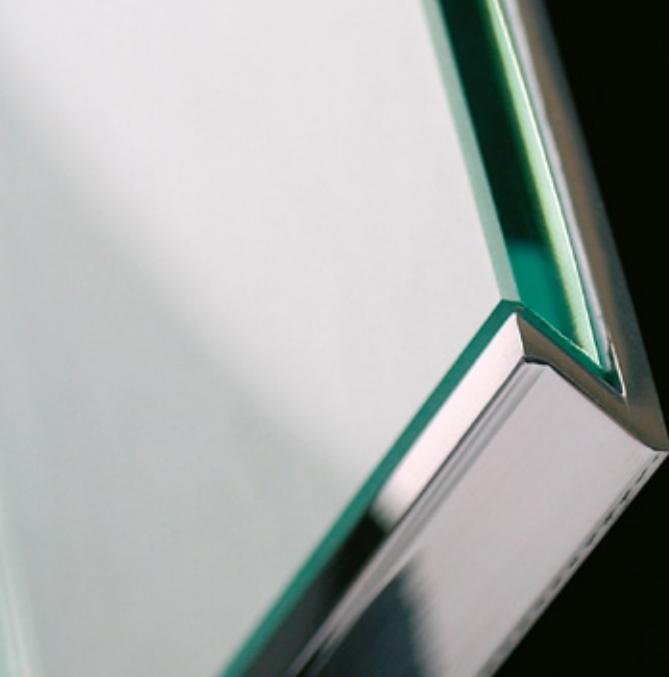


**picto 207 V**  
**picto 207 A**



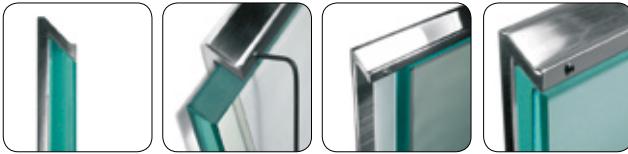
**picto 208 V**  
**picto 208 A**





design jean christophe bollache

**pile ou face**



aluminium | アルミ  
verre trempé | tempered glass, vidrio templado, vetro temperato,  
gehärtetem glas, 強化ガラス  
[<> PMMA | アクリル]



**1** aluminium : microbille anodisé naturel  
natural anodized micro-sand blasted, micro-arenado anodizado natural,  
micro-sabbiato anodizzato naturale,  
mikro-sandgestrahlt naturfarben eloxiert, アルミマイクロサンド



**2** aluminium : poli miroir  
mirror polished, pulido brillante, lucidato, glänzend poliert,  
アルミポリッシュ







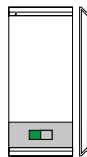
**pil 101 V**  
w 70 x h 70 x d 11mm  
w 2,76 x h 2,76 x d 0,43"



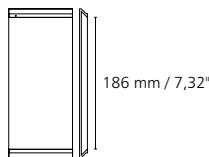
**pil 102 V**  
w 140 x h 70 x d 11mm  
w 5,51 x h 2,76 x d 0,43"



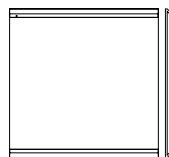
**pil 104 V**  
w 210 x h 70 x d 11mm  
w 8,27 x h 2,76 x d 0,43"



**pil 802 V**  
w 90 x h 210 x d 11mm  
w 3,54 x h 8,27 x d 0,43"



**pil 202 V**  
w 90 x h 210 x d 11mm  
w 3,54 x h 8,27 x d 0,43"



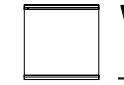
**pil 204 V**  
w 210 x h 210 x d 11mm  
w 8,27 x h 8,27 x d 0,43"



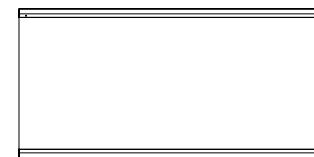
**pil 106 V**  
w 420 x h 70 x d 11mm  
w 16,54 x h 2,76 x d 0,43"



**pil 504 V**  
w 210 x h 70 x d 70mm  
w 8,27 x h 2,76 x d 2,76"



**pil 524 V**  
w 210 x h 210 x d 70mm  
w 8,27 x h 8,27 x d 2,76"



**pil 206 V**  
w 420 x h 210 x d 11mm  
w 16,54 x h 8,27 x d 0,43"



**face 101**  
w 70 x h 70 x d 11mm  
w 2,76 x h 2,76 x d 0,43"



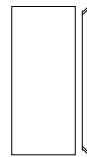
**face 102**  
w 140 x h 70 x d 11mm  
w 5,51 x h 2,76 x d 0,43"



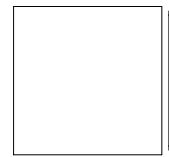
**face 104**  
w 210 x h 70 x d 11mm  
w 8,27 x h 2,76 x d 0,43"



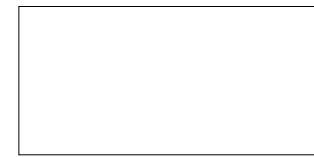
**face 106**  
w 420 x h 70 x d 11mm  
w 16,54 x h 2,76 x d 0,43"



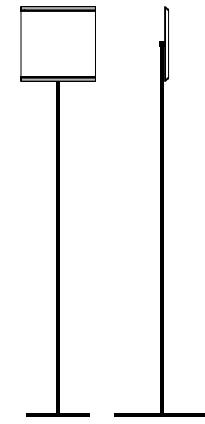
**face 202**  
w 90 x h 210 x d 11mm  
w 3,54 x h 8,27 x d 0,43"



**face 204**  
w 210 x h 210 x d 11mm  
w 8,27 x h 8,27 x d 0,43"

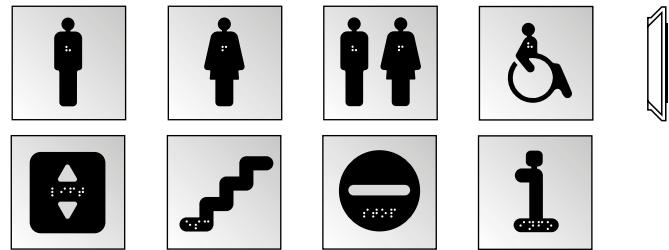
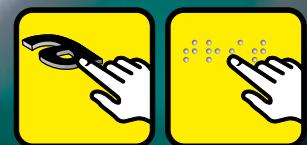


**face 206**  
w 420 x h 210 x d 11mm  
w 16,54 x h 8,27 x d 0,43"



**pil 904 P**  
w 210 x h 1155 x d 270 mm  
(pil 204 P : w 210 x h 210 x d 11 mm)  
w 8,27 x h 45,47 x d 10,63"  
(pil 204 P : w 8,27 x h 8,27 x d 0,43")

# marcal full access



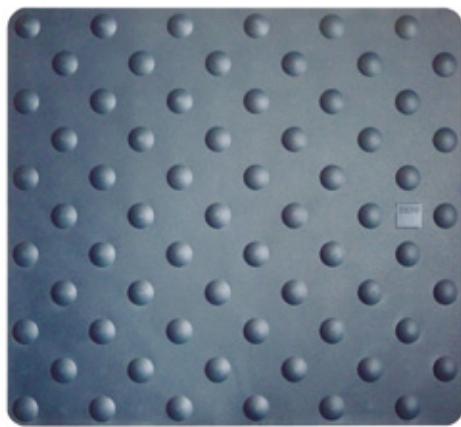
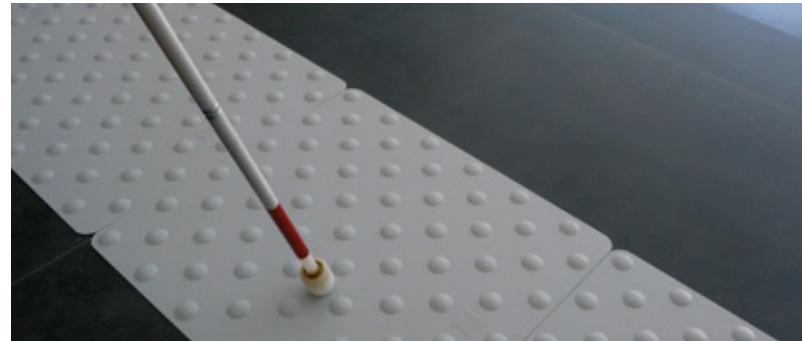
**face 101 full access**

w 70 x h 70 x d 11mm  
w 2,76 x h 2,76 x d 0,43"

podoalerte

marcal full access

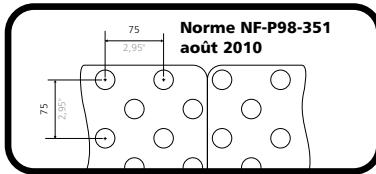




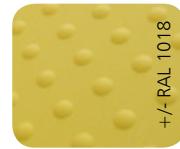
**podoalerte PP**  
w 450 x h 412,5 x d 6 mm  
w 17,7 x h 16,2 x d 0,23"



PP polypropylène



Norme NF-P98-351  
août 2010





**podoinox**

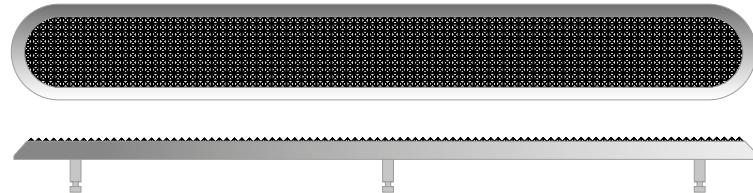
**marcal** full access





#### podo barre in

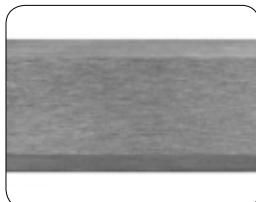
w 280 x h 35 x d 5 mm  
w 11,02 x h 1,38 x d 0,19"



#### podo barre out

w 280 x h 35 x d 5 mm  
w 11,02 x h 1,38 x d 0,19"

#### indoor

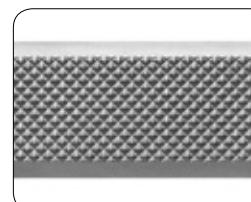


inox brossé AISI 316L,  
brushed stainless steel, acero inoxidable mate,  
acciaio inox spazzolato,  
edelstahl, ステンレスヘアライン

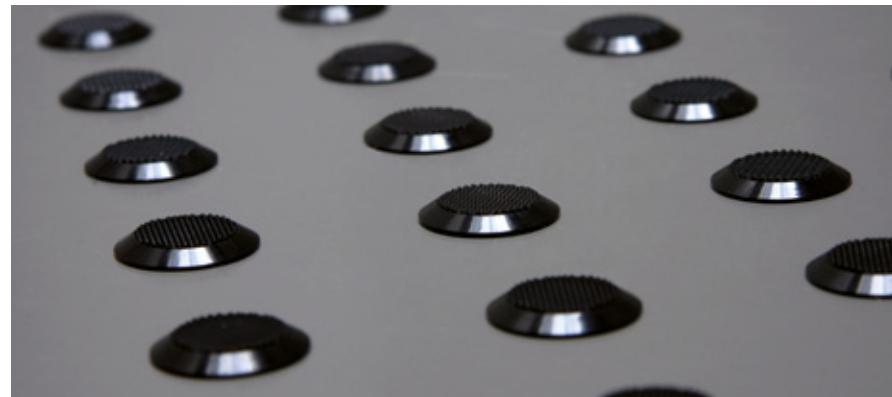
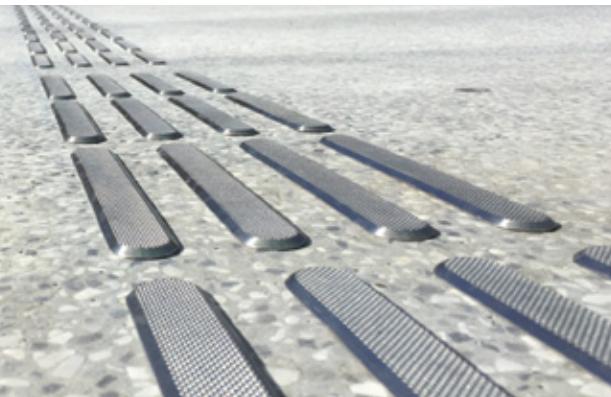


laiton brossé,  
brushed brass, latón cepillado mate,  
ottone spazzolato,  
matt gebürstet messing, マットは真鍮を起毛

#### outdoor



inox brossé AISI 316L avec du relief,  
brushed stainless steel with relief,  
acero inoxidable mate con relieve,  
acciaio inox spazzolato con rilievo,  
edelstahl mit relief, ステンレスヘアライン 敷設





**podo bouton in**  
w 35 x h 35 x d 5 mm  
w 1,38 x h 1,38 x d 0,19"



**podo bouton out**  
w 35 x h 35 x d 5 mm  
w 1,38 x h 1,38 x d 0,19"



**podo bouton ABS**  
w 35 x h 35 x d 5 mm  
w 1,38 x h 1,38 x d 0,19"

### indoor



inox brossé AISI 316L,  
brushed stainless steel, acero inoxidable mate,  
acciaio inox spazzolato,  
edelstahl, ステンレスヘアライン



laiton brossé,  
brushed brass, latón cepillado mate,  
ottone spazzolato,  
matt gebürstet messing, マットは真鍮を起毛

### outdoor



inox brossé AISI 316L avec du relief,  
brushed stainless steel with relief,  
acero inoxidable mate con relieve,  
acciaio inox spazzolato con rilievo,  
edelstahl mit relief, ステンレスヘアライン 救済

### ABS



(+/- RAL 1006): jaune, yellow, amarillo, giallo, gelb, 黄色  
(+/- RAL 3011): rouge, red, rojo, rosso, rot, 赤  
(+/- RAL 7004): gris, gray, gris, grigio, grau, 白黒、灰色  
(+/- RAL 9004): noir, black, negro, nero, schwarz, 黒

## podoline

marcal full access  

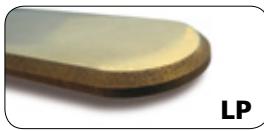

attendez ici  
wait here  
espere aquí





**MA**

aluminium: microbillé anodisé naturel,  
natural anodized micro-sand blasted,  
micro-arenado anodizado natural,  
micro-sabbatiato anodizzato naturale,  
mikro-sandgestrahlt naturfarben eloxiert,  
アルミマイクロサンド

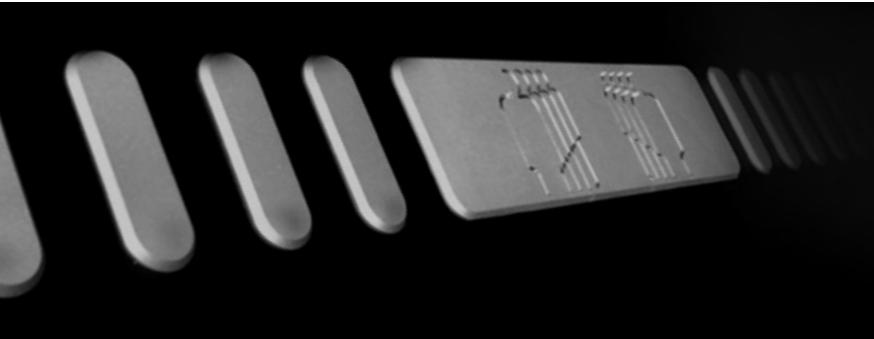


**LP**

laiton poli miroir,  
mirror polished brass, latón pulido brillant  
ottone lucidato,  
glänzend poliert messing, 黄銅 アルミボリ



option tige M4 sur demande  
screw M4 option on request  
16mm / 30mm



**podo line MA**  
w 875 x h 75 x d 4 mm  
w 34,44 x h 2,95 x d 0,15"



**podo line LP**  
w 875 x h 75 x d 4 mm  
w 34,44 x h 2,95 x d 0,15"



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## podotone

marcal full access  
|



inox brossé AISI 316L + DIAMONDRED®Dural,  
brushed stainless steel, acero inoxidable mate,  
acciaio inox spazzolato, edelstahl, ステンレスヘアライン



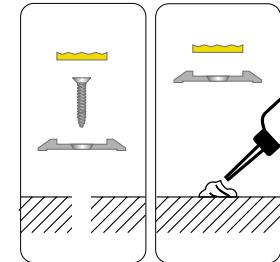
inox brossé AISI 316L  
brushed stainless steel, acero inoxidable mate,  
acciaio inox spazzolato, edelstahl, ステンレスヘアライン



**podotone bouton out 35**  
w 35 x h 35 x d 4,5 mm  
w 11,02 x h 1,38 x d 0,18"



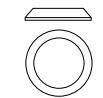
**podotone bouton out 25**  
w 25 x h 25 x d 4,5 mm  
w 10,83 x h 0,98 x d 0,18"



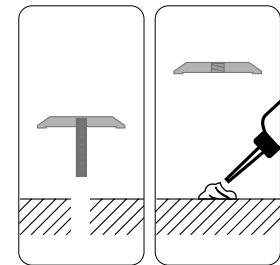
Vis non fournies.  
Screws not Included



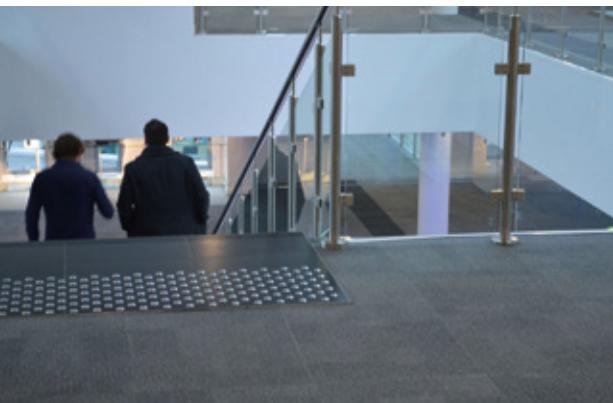
**podotone bouton in 35**  
w 35 x h 35 x d 4,5 mm  
w 11,02 x h 1,38 x d 0,18"



**podotone bouton in 25**  
w 25 x h 25 x d 4,5 mm  
w 10,83 x h 0,98 x d 0,18"



option tige M5 sur demande. Non fournies  
screw M5 option on request. Not Included  
16mm / 30mm



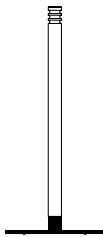
| Qborne





bois massif tourné + gomme sandow,  
turned wood + sandow rubber,  
madera maciza torneada + goma sandow,  
legno massiccio tornito + gomma sandow,  
gedrehtes Holz + sandow gummi,  
された木 + のゴム

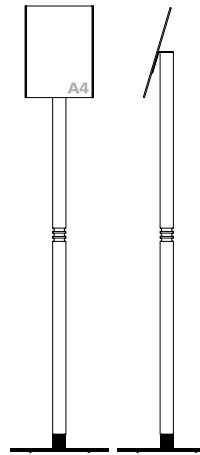




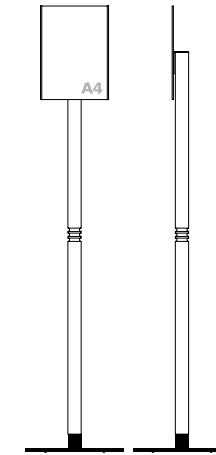
**QB 101**  
w 300 x h 700 x d 300mm  
w 16,53 x h 27,56 x d 10,55"



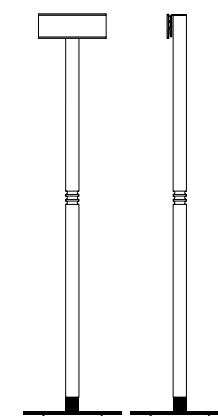
**QB 120**  
w 1700 x Ø 6mm  
w 66,93 x Ø 0,24"



**QB 110**  
w 300 x h 1350 x d 300mm  
w 11,81 x h 53,15 x d 11,81"



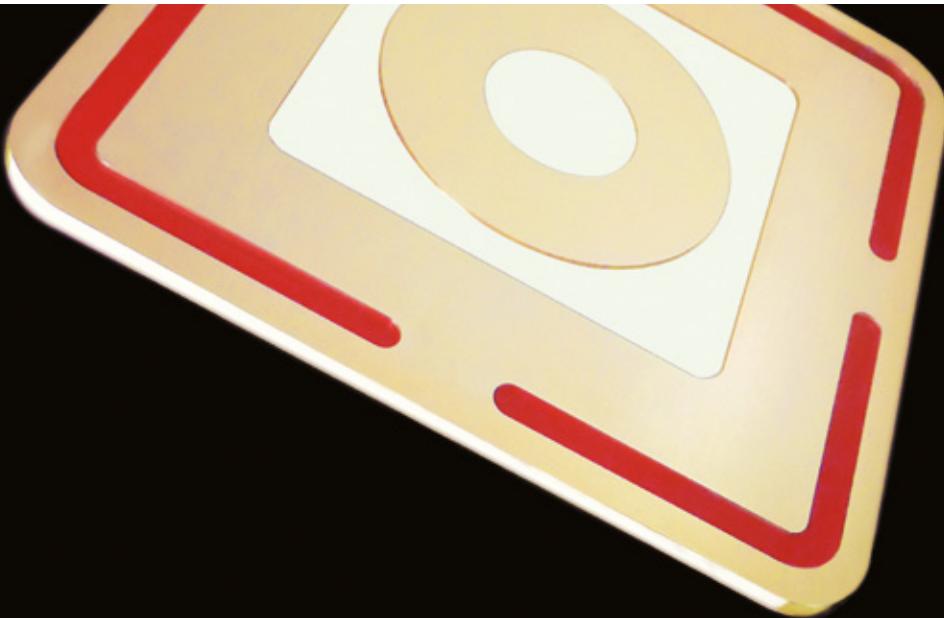
**QB 112**  
w 300 x h 1350 x d 300mm  
w 11,81 x h 53,15 x d 11,81"

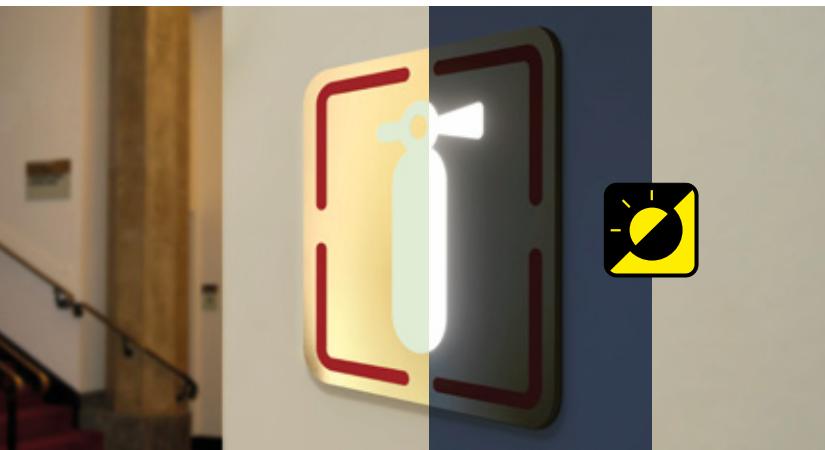


**QB 114**  
w 300 x h 1215 x d 300mm  
w 11,81 x h 47,83 x d 11,81"

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| riviera





#### **riviera**

w 120 x h 120 x d 3 mm  
w 4,72 x h 4,72 x d 0,1"



**riv 104**

R.I.A.



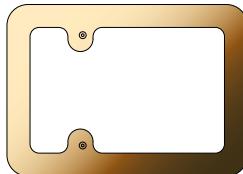
**riv 105**

extincteur



**riv 108**

alarme incendie



**riv 204**

w 314 x h 224 x d 21(164x164)mm  
w 12,36 x h 8,82 x d 0,83 (6,46x6,46)"



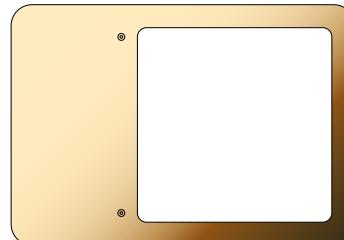
**riv 101**

porte coupe-feu  
à maintenir fermée



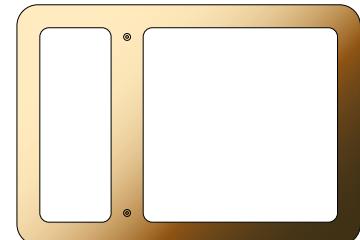
**riv 102**

porte coupe-feu  
ne mettez pas d'obstacle  
à la fermeture



**riv 206**

w 449 x h 314 x d 21(254x254)mm  
w 17,68 x h 12,36 x d 0,83 (10x10)"



**riv 206 C**

w 449 x h 314 x d 21 (93x254)+(254x254)mm  
w 17,68 x h 12,36 x d 0,83 (3,66x10)+(10x10)"

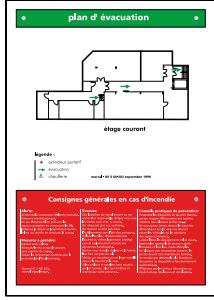


**LP**

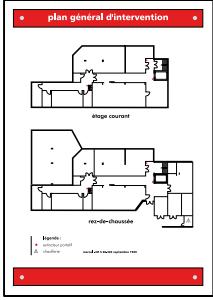
laiton poli miroir,  
mirror polished brass, latón pulido brillante,  
ottone lucidato,  
glänzend poliert messing, 黄銅 アルミボリッシュ

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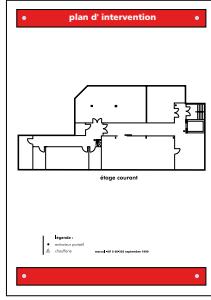
sécurité



**secu PEV A3**  
w 297 x h 420 x d 9,5mm  
w 11,69 x h 16,54 x d 0,37"



**secu PGI A3**  
w 297 x h 420 x d 9,5mm  
w 11,69 x h 16,54 x d 0,37"



**secu PIS A3**  
w 297 x h 420 x d 9,5mm  
w 11,69 x h 16,54 x d 0,37"



**secu CONS**  
w 270 x h 135 x d 2,5mm  
w 10,63 x h 5,31 x d 0,1"

**secu 101 - 110**  
w 90 x h 90 x d 2,5mm  
w 3,54 x h 3,54 x d 0,1"



**secu 101**  
porte coupe-feu à maintenir fermée



**secu 102**  
porte coupe-feu ne mettez pas d'obstacle à la fermeture



**secu 103**  
téléphone incendie



**secu 104**  
R.I.A.



**secu 105**  
extincteur



**secu 106**  
échelle incendie



**secu 107**  
local électrique



**secu 108**  
alarme incendie



**secu 109**  
accès interdit



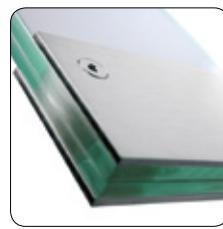
**secu 110**  
sans issue

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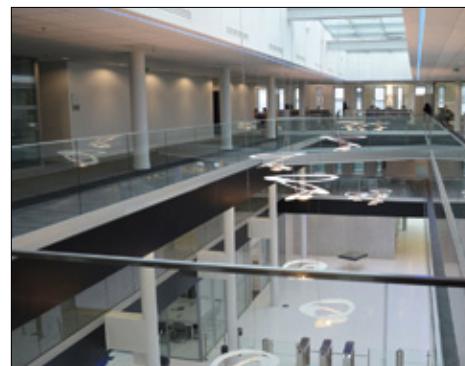
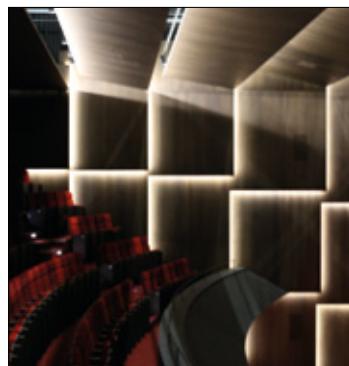


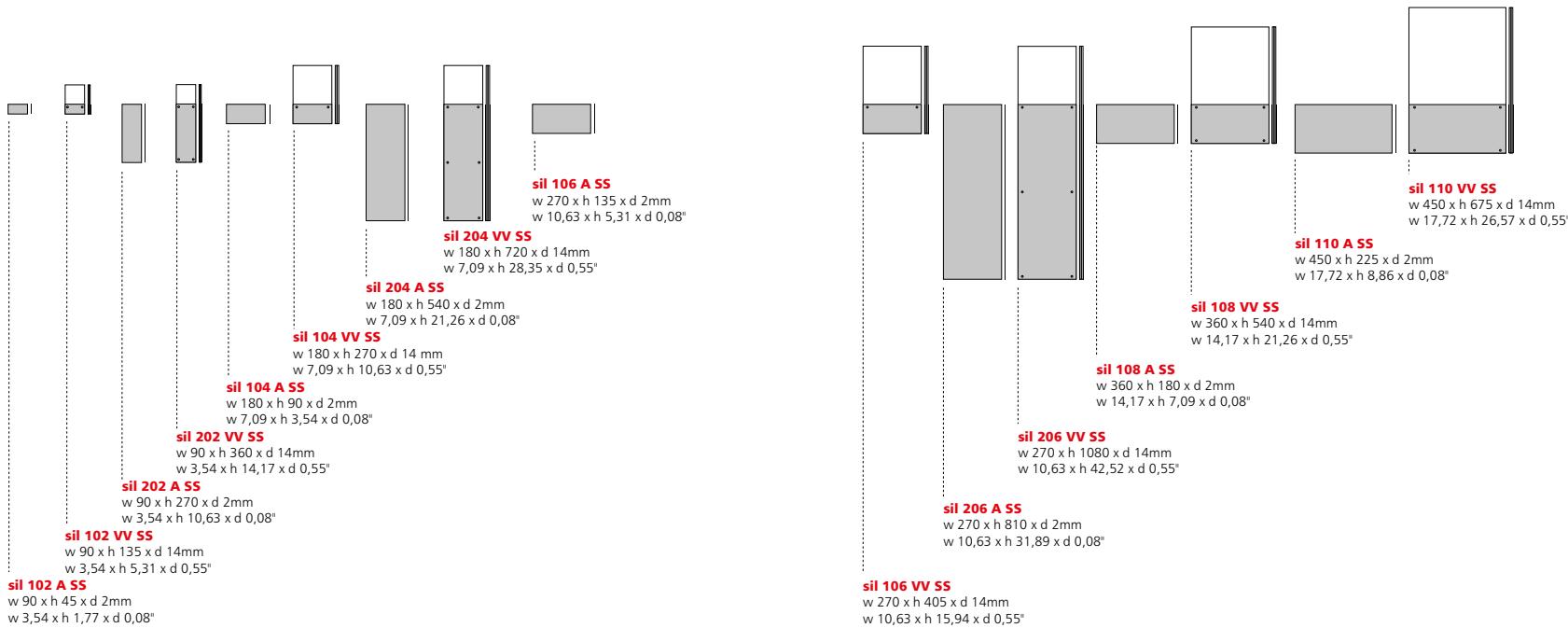
design pippo lionni

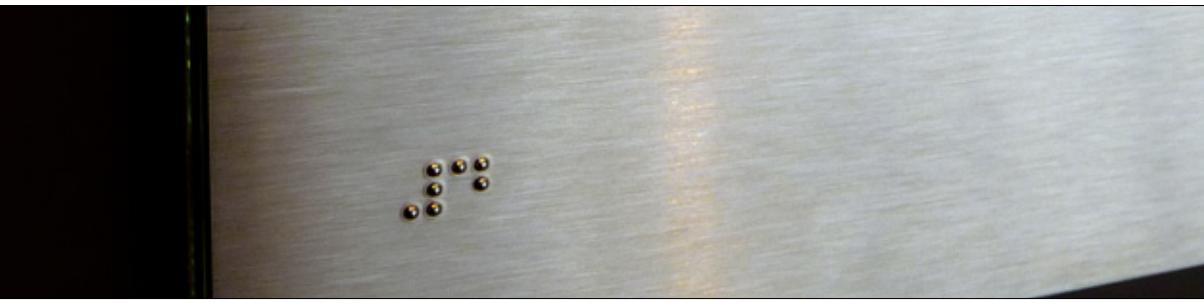
**silenzio uno**



inox | stainless steel, acero inoxidable, acciaio inox, Edelstahl, ステンレス  
verre trempé | tempered glass, vidrio templado, vetro temperato,  
gehärtetem glas, 強化ガラス











**sil 602 VV SS**

w 90 x h 135 x d 57,5mm  
w 3,54 x h 5,31 x d 2,26"



**sil 604 VV SS**

w 180 x h 270 x d 78,5mm  
w 7,09 x h 10,63 x d 3,09"



**sil 702 VV SS**

w 90 x h 135 x d 57,5mm  
w 3,54 x h 5,31 x d 2,26"



**sil 704 VV SS**

w 180 x h 270 x d 78,5mm  
w 7,09 x h 10,63 x d 3,09"



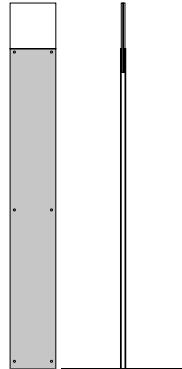
**sil 502 VV SS**

w 90 x h 135 x d 45mm  
w 3,54 x h 5,31 x d 1,77"



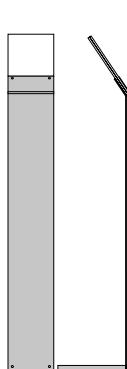
**sil 504 VV SS**

w 180 x h 270 x d 90mm  
w 7,09 x h 10,63 x d 3,54"



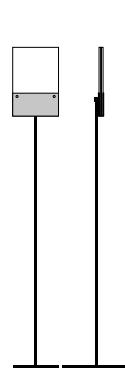
**sil 304 VV SS**

w 180 x h 1448 x d 490mm  
w 7,09 x h 57,01 x d 19,29"



**sil 404 VV SS**

w 180 x h 1365 x d 270mm  
w 7,09 x h 53,74 x d 10,63"



**sil 904 VV SS**

w 180 x h 1260 x d 270mm  
w 7,09 x h 49,61 x d 10,63"



**sil 802 VV SS**

w 90 x h 135 x d 14mm  
w 3,54 x h 5,31 x d 0,55"



**sil 804 VV SS**

w 180 x h 270 x d 14mm  
w 7,09 x h 10,63 x d 0,55"

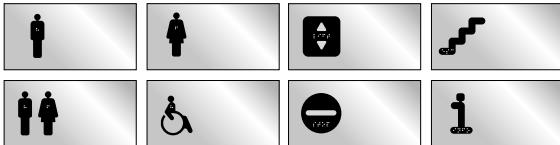
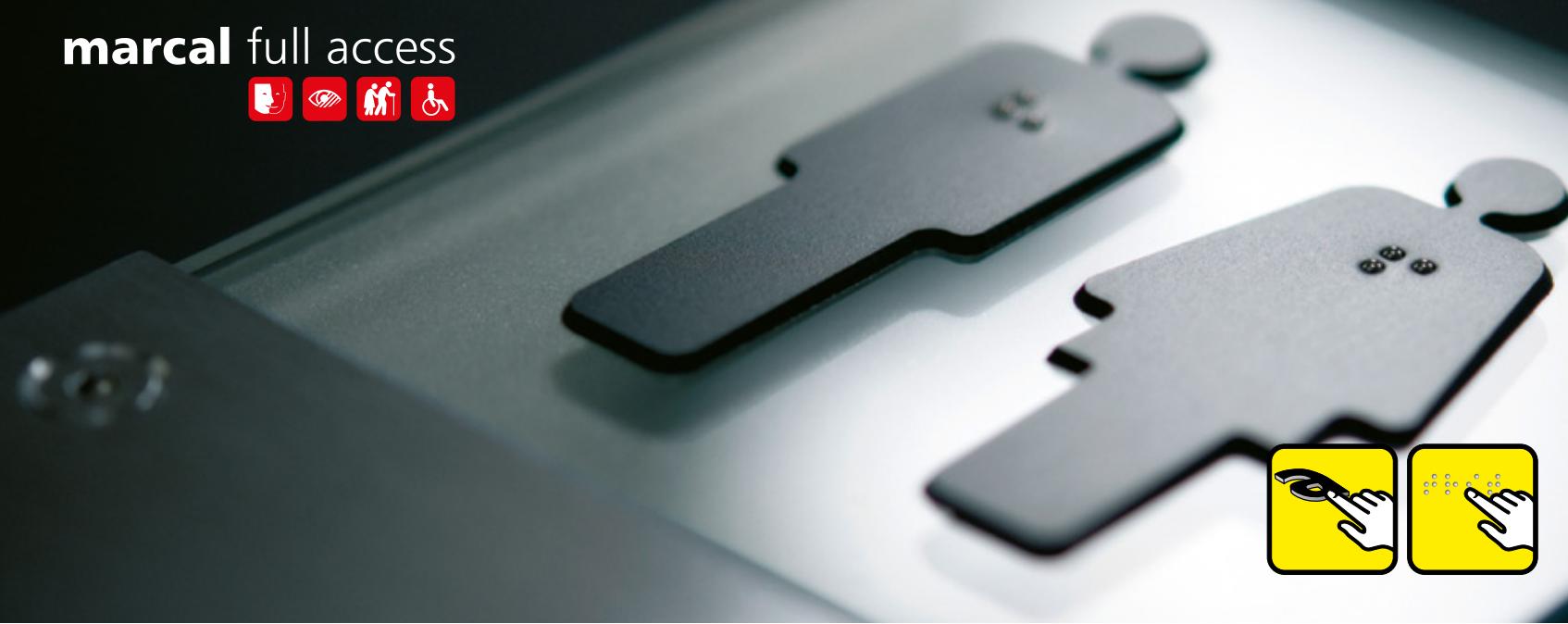
**salle de réunion :**

témoin vert ou rouge indiquant une salle libre ou occupée.

**meeting room :**

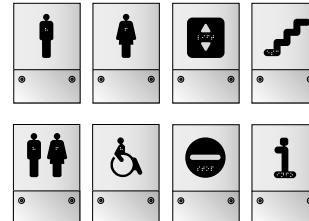
green or red telltale indicating a free or busy room.

# marcal full access



**sil 104 A SS full access**

w 180 x h 90 x d 2,5mm  
w 7,09 x h 3,54 x d 0,10"



**sil 102 VV SS full access**

w 90 x h 135 x d 15mm  
w 3,54 x h 5,31 x d 0,59"

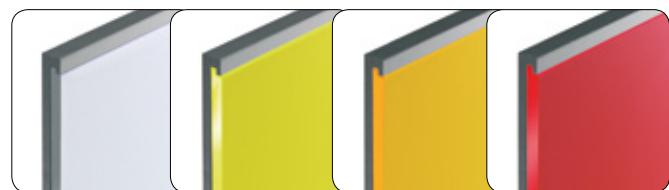
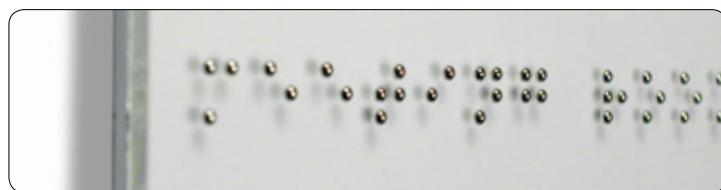


design pippo lionni

**skwizmi**



aluminium | アルミ  
+ PMMA | アクリル







**salle de cours**  
**205**

LUNDI 30 JANVIER 2006

14h - 15h30 **Cours A1**  
PRÉSENTATION GÉNÉRALE DES SCIENCES DES TRANSFERTS  
INTRODUCTION AUX TRANSFERTS THERMIQUES  
Les échanges : les voies énergétiques de l'environnement, la réalisation du conditionnement thermique des systèmes. Notions physiques sur les modes de transferts : flux conductif, conduction-convection, premiers exemples d'application. Bilan en régime stationnaire sans mouvement, analogie électrique et ses limites

15h45 - 17h15 **PC A1**  
ISOLATION D'UN CONTENEUR CRYOGÉNIQUE (N°1)

---

MERCREDI 1er FÉVRIER 2006

14h - 15h30 **Cours B1**  
MÉTHODES D'ÉTUDE DES ÉCOULEMENTS DE FLUIDES  
Principes de la mécanique des fluides dans les technologies actuelles. Programme, objectifs, organisation, enseignement théorique et méthodes de travail.  
Introduction à l'étude des écoulements : contexte de milieu continu, types d'écoulements.  
Méthodes générales de modélisation des problèmes de Mécanique des Fluides.  
Systèmes matériels et conditions de mouvement. Viscosité et accélération d'une particule fluide.  
Lignes de courant, trajectoires, lignes d'écoulement. Théorèmes de transport.  
Rapporteur de bilan de matière. Traitements des résultats d'expérimentation.  
Présentation du film "Applications géophysiques industrielles et maritimes de la visualisation hydrodynamique des écoulements".

15h - 17h30 **PC B1**  
CALCUL DE L'ACCÉLÉRATION D'UNE PARTICULE FLUIDE  
Lignes de courant et intégration de la trajectoire intérieure.  
Expérience macroscopique d'un bilan de masse.  
Présentation : Analyse du transfert de masse dans les poumons



**ski 102**

w 105 x h 75 x d 14mm  
w 4,13 x h 2,95 x d 0,55"



**ski 103**

w 148,5 x h 75 x d 14mm  
w 5,84 x h 2,95 x d 0,55"



**ski 104**

w 210 x h 75 x d 14mm  
w 8,26 x h 2,95 x d 0,55"



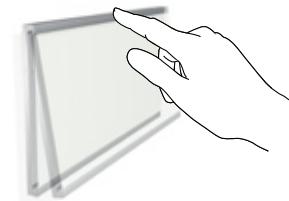
**ski 105**

w 297 x h 75 x d 14mm  
w 11,69 x h 2,95 x d 0,55"



**ski 106**

w 420 x h 75 x d 14mm  
w 16,53 x h 2,95 x d 0,55"



**ski 302**

w 105 x h 105 x d 5,5mm  
w 4,13 x h 3,94 x d 0,22"



**ski 303**

w 148,5 x h 105 x d 5,5mm  
w 5,84 x h 4,13 x d 0,22"



**ski 304**

w 210 x h 105 x d 5,5mm  
w 8,26 x h 4,13 x d 0,22"



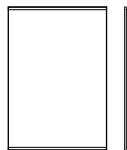
**ski 305**

w 297 x h 105 x d 5,5mm  
w 11,69 x h 4,13 x d 0,22"



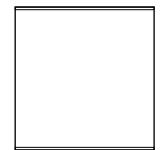
**ski 306**

w 420 x h 105 x d 5,5mm  
w 16,53 x h 4,13 x d 0,22"



**ski 203**

w 148,5 x h 215 x d 5,5mm  
w 5,84 x h 8,46 x d 0,22"



**ski 204**

w 210 x h 215 x d 5,5mm  
w 8,26 x h 8,46 x d 0,22"



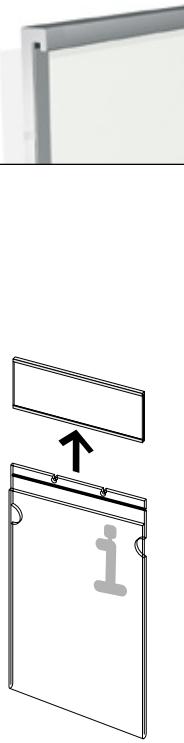
**ski 205**

w 297 x h 215 x d 5,5mm  
w 11,69 x h 8,46 x d 0,22"

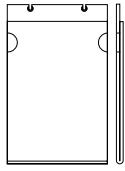


**ski 206**

w 420 x h 215 x d 5,5mm  
w 16,53 x h 8,46 x d 0,22"



+

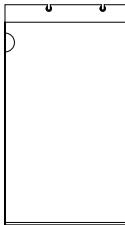


**ski UA5F**

din A5  
w 148,5 x h 210 x d 10mm  
w 5,84 x h 8,26 x d 0,39"



+

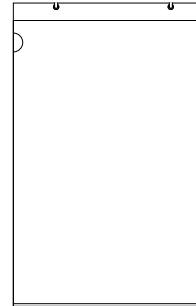


**ski UA4F**

din A4  
w 210 x h 297 x d 10mm  
w 8,26 x h 11,69 x d 0,39"



+

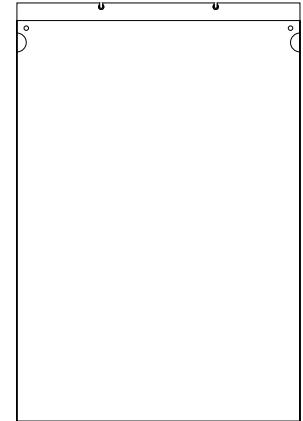


**ski UA3F**

din A3  
w 297 x h 420 x d 10mm  
w 11,69 x h 16,53 x d 0,39"

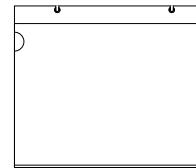


+



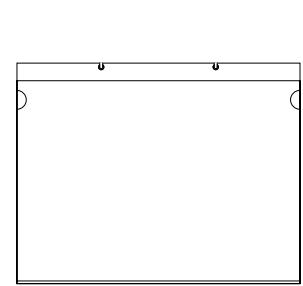
**ski UA2F**

din A2  
w 420 x h 594 x d 10mm  
w 16,53 x h 23,38 x d 0,39"



**ski UA4i**

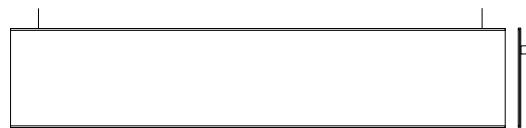
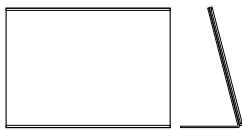
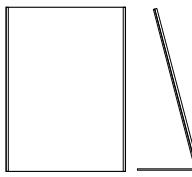
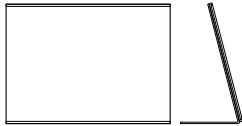
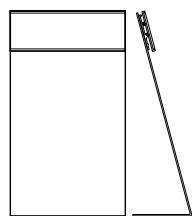
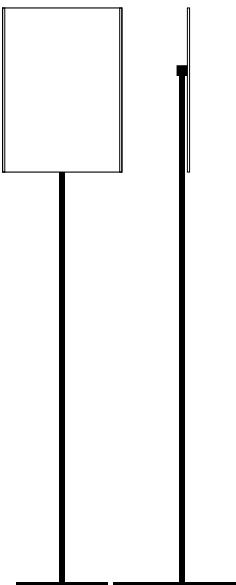
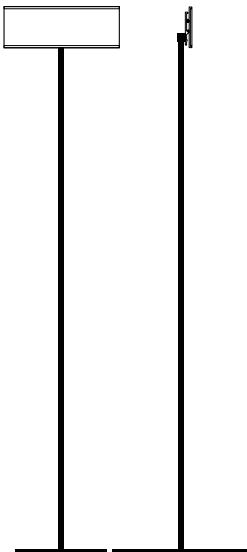
din A4  
w 297 x h 210 x d 10mm  
w 11,69 x h 8,26 x d 0,39"



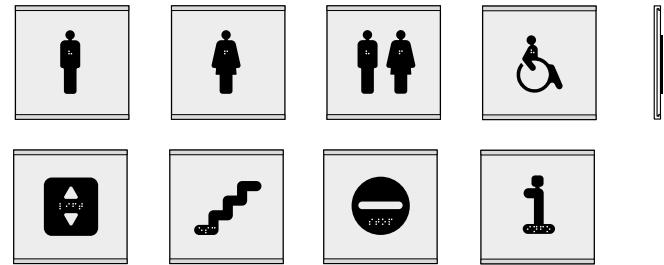
**ski UA3i**

din A3  
w 420 x h 297 x d 10mm  
w 16,53 x h 11,69 x d 0,39"





**marcal full access**



**ski 302 full access**

w 105 x h 105 x d 5,5mm  
w 4,13 x h 3,94 x d 0,20"

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**VAK**

système\_Visuel\_Auditif\_Kinesthésique

**marcal** full access





#### VAK table

w 980 x h 900 x d 400 mm  
w 38,59 x h 35,43 x d 15,74"



aluminium | アルミニウム  
+ PMMA | アクリル  
technologie interne ESIUM



#### VAK mural

w 250 x h 450 x d 100mm  
w 9,84 x h 17,71 x d 3,94"



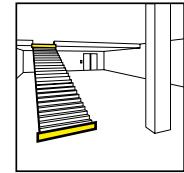
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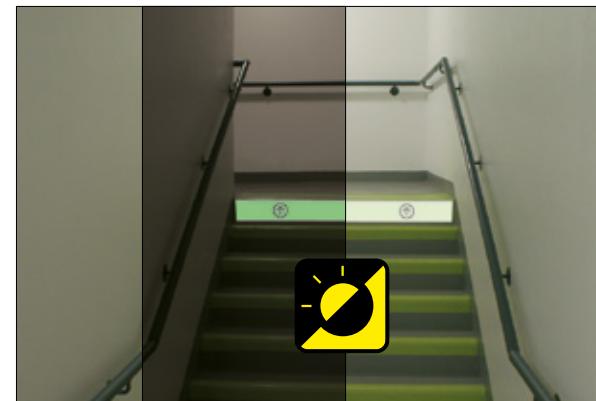
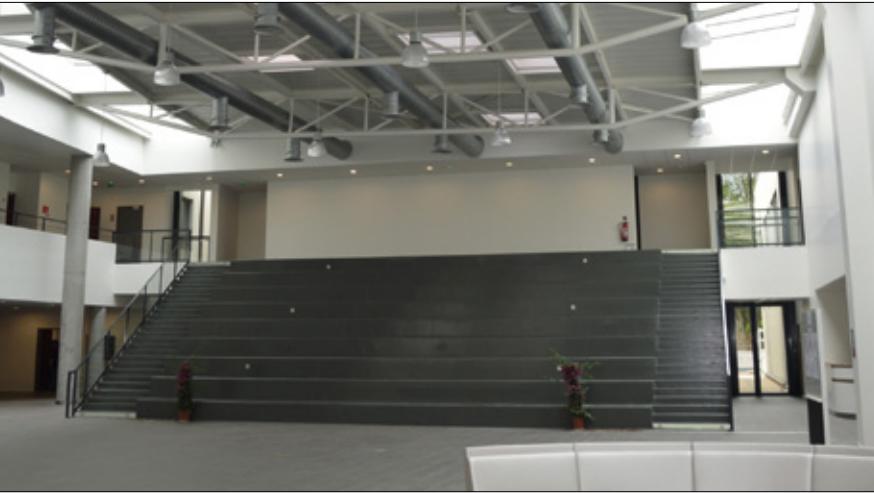
volea

marcal full access





aluminium | アルミ





**volea 100**

w ... x h 114 x d 3 mm  
w ... x h 4,48 x d 0,11"



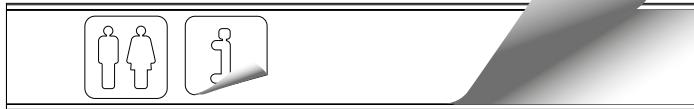
**volea 200**

w 10000 x h 100 mm  
w 393,7 x h 3,93"



**volea 300**

w 80 x h 80 x d 0,1 mm  
w 3,15 x h 3,15 x d 0,003"



aluminium: anodisé naturel, natural anodized,  
anodizado natural, anodizzato naturale,  
naturfarben eloxiertes, アルミナチュラル

aluminium: anodisé doré, golden anodized,  
anodizado dorado, anodizzato dorato,  
vergoldet eloxiert, 銀極酸化される金

aluminum: anodisé noir, black anodized,  
anodizado negro, anodizzato nero,  
schwarzes eloxiertes, 銀極酸化される黒

**volea 102**

**volea 104**

**volea 106**

**RAL 9006 marking film pictogram**  
pictogramme découpé vinyle RAL 9006



**volea 301**

w 80 x h 80 x d 0,1 mm  
w 3,15 x h 3,15 x d 0,003"



**volea 302**

w 80 x h 80 x d 0,1 mm  
w 3,15 x h 3,15 x d 0,003"



**volea 303**

w 80 x h 80 x d 0,1 mm  
w 3,15 x h 3,15 x d 0,003"

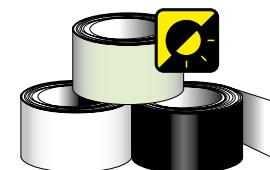


**volea 304**

w 80 x h 80 x d 0,1 mm  
w 3,15 x h 3,15 x d 0,003"

**volea 202**

(photoluminescent)  
w 10000 x h 100 mm  
w 393,7 x h 3,93"



**volea 204**

(white-blanc)  
w 10000 x h 100 mm  
w 393,7 x h 3,93"

**volea 206**

(black-noir)  
w 10000 x h 100 mm  
w 393,7 x h 3,93"



Paris,  
**Piscine Molitor,** ...

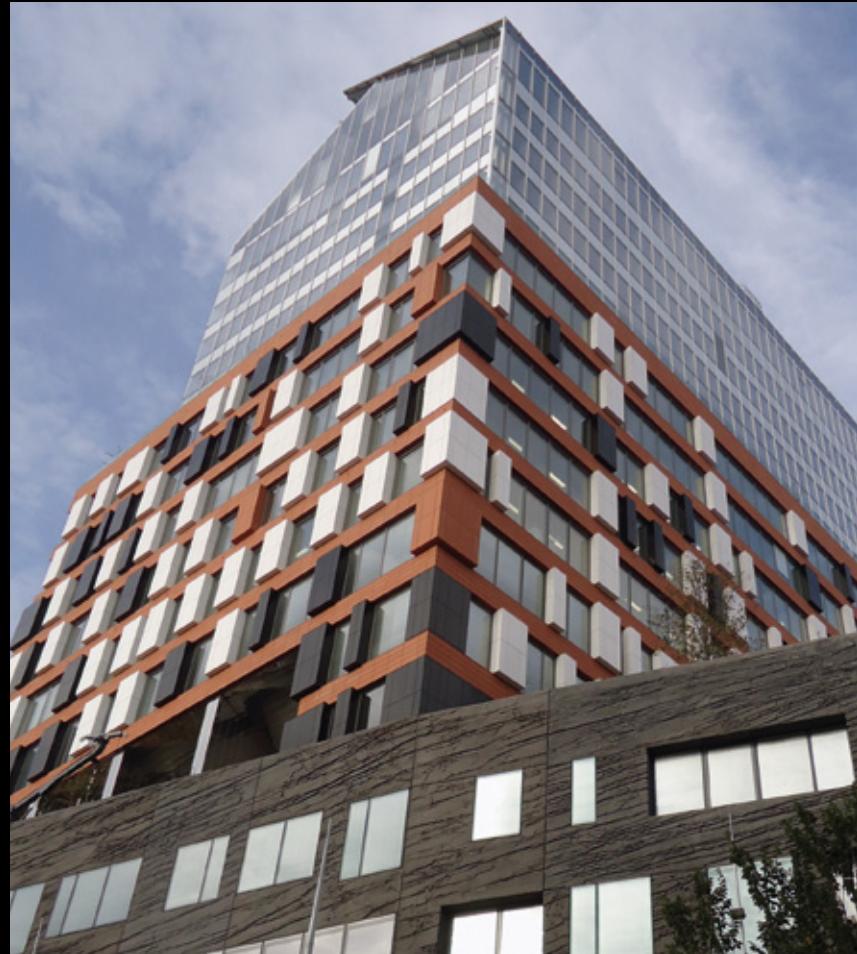


Limerick,  
**Lime Tree Theatre,**  
Murray O'Laoire Architects, Hugh Kelly Architects, ...



Tunis,  
**Institut français de Tunisie,**  
Richter + Partner, ...

Paris,  
**Siège social Roche,**  
Ateliers Jean Nouvel, ...



Luxembourg,  
**Cour de Justice européenne**, Dominique Perrault, ...

Paris,  
**Maison du Mexique**,  
Atela Architects, ...



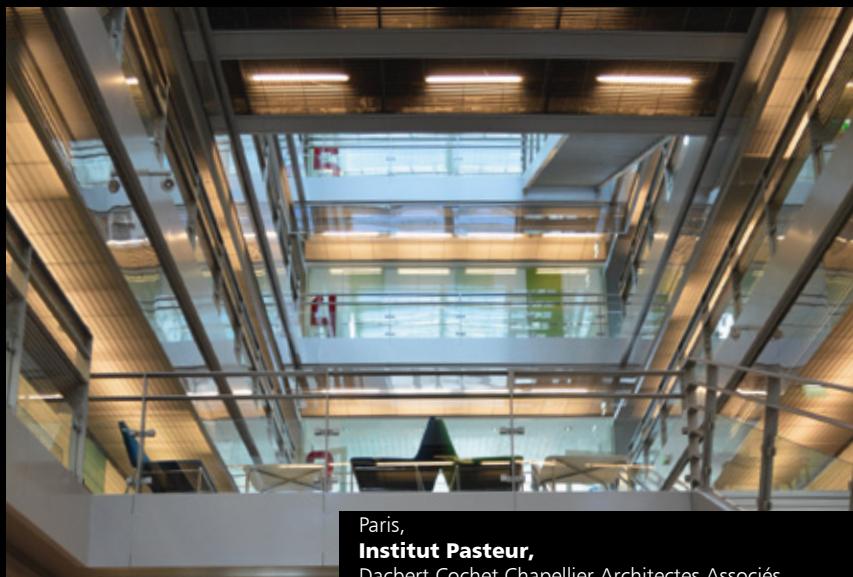
Martinique,  
**Cour d'Appel de Fort-de-France**,  
Gilles Bouchez, ...



Seraing,  
**Neocittà**,  
Jourdain Architectes Associés, ...



Paris,  
**Institut Pasteur**,  
Dacbert Cochet Chapellier Architectes Associés, ...





Paris,  
**Ecole nationale supérieure des arts décoratifs**,  
Philippe Starck, Luc Arsene-Henry, Rudi Meyer, ...



Paris,  
**Maison de la radio**,  
Henry Bernard, ...





Paris - La Défense,  
**Cœur Défense**,  
Jean-Paul Viguier, ...



Paris - La Défense,  
**Tour CBX**,  
SRA Architectes, ...



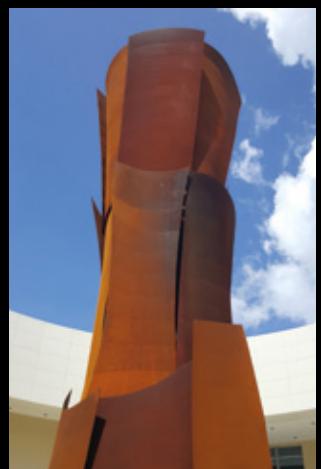
Paris - La Défense,  
**Tour Opus12**,  
Valode & Pistre, ...



Paris - La Défense,  
**Tour Pb6 (EDF)**,  
Pippo Lionni, Amadeus,  
Ming leoh Peï, ...



Washington,  
**US Capitol**



Pointe-à-Pitre, Guadeloupe,  
**Mémorial ACTe**  
**Centre caribéen d'expressions**  
**et de mémoire de la traite et de l'esclavage**  
Atelier d'architecture B.M.C. & Atelier Doré / Marton

Paris,  
**IBM**,  
Jean-Paul Viguer, Mobilitis, ...



Paris,  
**Microsoft**,  
Arquitectonica, Form'A, ...





Cannes,  
**Centre Hospitalier**,  
Brunet Saunier Architecture,



Marne-la-Vallée,  
**Centre hospitalier de Marne-la-Vallée**,  
Brunet Saunier Architecture





Woluwe Saint-Lambert,  
**Tangla Hotel Brussels,**  
Montois Partners Architects, ...



Barcelona,  
**Hotel AC Miramar,**  
Tusquets-Diaz & Asociados, ...



Barcelona,  
**Hotel NH Constanza,**  
Rafael Moneo, ...





Paris,  
**Bibliothèque nationale, salles de lecture,**  
Jean Widmer, Dominique Perrault, ...



Paris,  
**Siège social de Cartier,**  
L design, Ricardo Bofill,

- 9 **amer**  
17 **cedo**  
25 **consign**  
29 **delhi**  
39 **glasskit**  
53 **île**  
65 **kourouma**  
69 **lettre**  
73 **link**  
89 **littera**  
101 **opalescent**  
115 **paris**  
125 **pasamano**  
131 **pharos**  
139 **picto**  
143 **pile ou face**  
155 **podoalerte**  
159 **podoinox**  
167 **podoline**  
171 **podotone**  
177 **Qborne**  
183 **riviera**  
187 **sécurité**  
191 **silenzio uno**  
207 **skwizmi**  
225 **VAK**  
229 **volea**