



globalNETWORK

MP ALGERIA · MP AUSTRALIA · MP AUSTRIA · MP CZECH REP. · MP CHILE · MP CHINA · MP FRANCE · MP GREECE · MP ITALY
MP JORDAN · MP MEXICO · MP MOROCCO · MP NETHERLANDS · MP POLAND · MP PORTUGAL · MP RUSSIA · MP SPAIN · MP SEWDEN

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MP|STEP



MP|STEP
Escalators and moving walks

FOR PUBLIC BUILDINGS



MP STEP

Escalators and moving walks

Adaptability and optimum performance

The range of MP STEP escalators and moving walks is one step beyond technology, efficiency and adaptability. A wide range of possibilities ensures the suitability of every choice, no matter what the real conditions of any situation are. Space, passenger traffic and usage conditions stop being limits and become our indicator to determine a better choice. Moreover, modular design optimizes installation and enjoyment of the product, thanks to its excellent response capacity to project specifications.



A system offering very different possibilities with excellent common characteristics: reliability, comfort and optimum performance are the base for the success of any product of the MP STEP range.

Due to our philosophy of excellence and continuous improvement, all our products comply with the European Regulation EN115 and other international codes, such as National Quality & Technology Supervision Bureau (P.R.China) and Russia Mine & Industry Technology Supervision Bureau.

IDEAS THAT MAKE YOU GO FORWARD





A KIND OF PRODUCT FOR ANY NEED

Range of MP products



A STEP FURTHER IN ADAPTABILITY

FOR PUBLIC BUILDINGS

COMMERCIAL. MP COLINA

Escalators for shopping malls, big stores, supermarkets, hotels, office buildings, museums, hospitals and airports.

HEAVY DUTY. MP SIERRA

Escalators for subways and railway stations mainly.

TROLLEY. PONT | PONT F

Inclined moving walks for shopping malls, big stores, supermarkets and similars.

LONG WAY. PONT H

Horizontal moving walks for airports and long-distance passenger transit.

| | COLINA | SIERRA | PONT | PONT F | PONT H |
|---------------------------|-----------------------|----------------------|----------------|----------------|--------------------|
| Installation | Indoor/Outdoor | Indoor/Outdoor | Indoor/Outdoor | Indoor/Outdoor | Indoor/Outdoor |
| Working hours (hours/day) | 16 | 24 | 16 | 16 | 16 |
| Inclination (°) | 30°/35° | 30°/35° | 10°,11°,12° | 10°,11°,12° | 0°,6° |
| Speed (m/s) | 0,5 | 0,5 / 0,65 (if 30°) | 0,5 | 0,5 | 0,5 |
| Capacity (persons/hour) | up to 7300 | up to 7300 | up to 6000 | up to 6000 | up to 6000 |
| Step width (mm) | 600/800/1000 | 600/800/1000 | 800/1000 | 800/1000 | 800/1000/1200/1400 |
| Vertical rise range | 7.5m (30°) / 6m (35°) | 12m (30°) / 6m (35°) | 7 m | 7 m | 10-100 m |

NEEDS BECOMING SOLUTIONS



SECURITY AND OPTIONS

Escalators and moving walks

Do you already know the most suitable model for you? Complete it with a high number of options that optimize the performance, safety and aesthetics of your product even more.

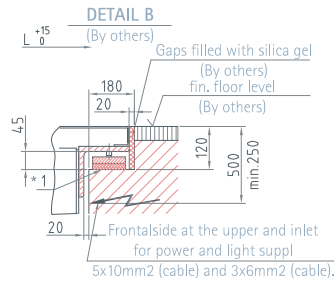
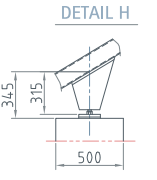
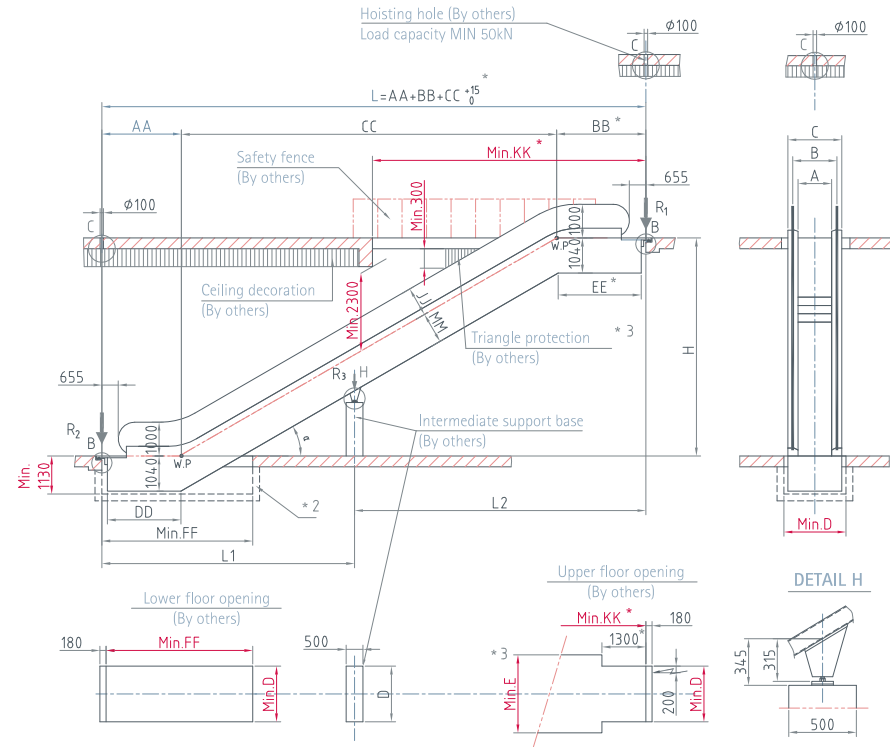
OPTIONS

- Safety brake on main shaft
- VVVF
- Auto-lubrication system
- Balustrade / skirt lighting
- Traffic lights
- Handrail speed sensor
- LCD fault display
- Auto-starting (photocells or contact mat on landing)
- Telecontrol
- Coloured handrail
- Truss cladding: stainless steel or painted plate
- Preparation for outdoor (waterproof screws, Oil-water separator, lower pit float contact...)

SAFETY ELEMENTS

- Drive chain contact (1)
- Step chain contact (2)
- Handrail entrance contact (4)
- Comb plate contact (4)
- Skirting contact (4)
- Step sag contact (2)
- Step missing contact (2)
- Landing plate contact (2)
- Emergency pushbuttons
- Step gap lighting
- Step yellow frame
- Phase relay
- Other safety elements
- Anti-reverse function (O)
- Step anti-uptrust contact (O)
- Motor overheat protection (O)

(O) Optional



VERTICAL/INCLINED BALUSTRADE

| A | 600 | 800 | 1000 |
|---|------|------|------|
| B | 837 | 1037 | 1237 |
| C | 1145 | 1345 | 1545 |
| D | 1200 | 1400 | 1600 |
| E | 1850 | 2050 | 2250 |

| TYPE | a | AA | BB | CC | DD | EE | FF | JJ | KK | MM |
|---------------|-----|------|------|--------|------|------|------|-----|------|-----|
| MP COLINA 302 | 30° | 2195 | 2564 | Hx1732 | 2205 | 2482 | 4200 | 870 | 7900 | 940 |
| MP COLINA 352 | 35° | 2229 | 2648 | Hx1428 | 2352 | 2455 | 4000 | 850 | 7100 | 960 |
| MP COLINA 303 | 30° | 2595 | 2964 | Hx1732 | 2605 | 2882 | 4600 | 870 | 8300 | 940 |
| MP COLINA 353 | 35° | 2629 | 3048 | Hx1428 | 2752 | 2855 | 4400 | 850 | 7500 | 960 |

COLINA

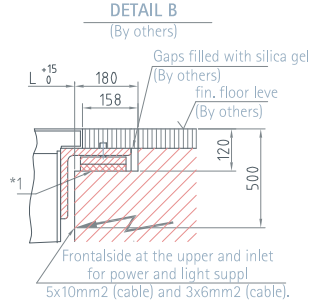
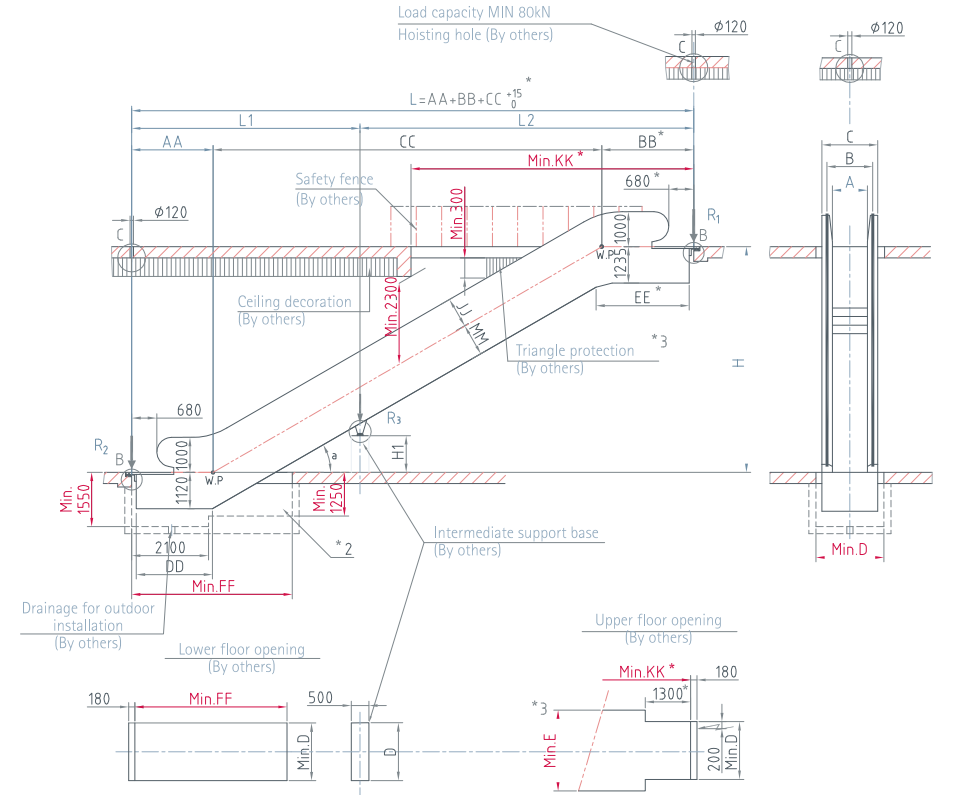
- Notes:
1. Mark*: Mark*1: Supports need to be in true level. Mark*2: If there is pit, this need to be water proof and smooth. Mark*3: If dimension E can not be guaranteed, a guard acc EN115 must be provided as shown.
 2. According to EN115, the entrance of bothing landing must have enough area to facilitate the traffic flow.
 3. Dimensions with mark * should be extended 440 mm in case 600mm step or double drive. If VVVF is included, extension will be always 500mm.
 4. Intermediate support is required in case of horizontal distance L over 15m. please contact us.
 5. All dimension refer to finished dimension is in mm.

| A | Reaction Force (kN) | |
|------|------------------------------|-------------------------------|
| | Without intermediate support | With one intermediate support |
| 600 | R1= 3.4xL+15.5 | R1=3.4xL2+11.5 |
| | R2=3.4xL+10 | R2=3.4xL1+4.5 |
| 800 | R1=3.75xL+17 | R1=3.75xL2+12 |
| | R2=3.75xL+11 | R2=3.75xL1+4.7 |
| 1000 | R1=4.2xL+18.5 | R1=4.2xL2+12.5 |
| | R2=4.2xL+11.5 | R2=4.2xL1+4.9 |
| | | R3=4.2xL+4.5 |

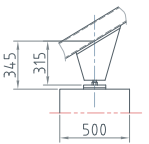
Note. 1.L, L1,L2 are in meters

SIERRA

- Notes:
1. Mark*: Mark*1: Supports need to be in true level. Mark*2: If there is pit, this need to be water proof and smooth. Mark*3: If dimension E can not be guaranteed, a guard acc EN115 must be provided as shown. If VVVF is added, the extension will be 500 mm.
 2. According to EN115, the entrance of bothing landing must have enough area to facilitate the traffic flow.
 3. Dimensions with mark * should be extended 470 mm in case 600mm step or double drive. If VVVF is included, extension will be always 500mm.
 4. Intermediate support is required in case of horizontal distance L over 15m. please contact us.
 5. All dimension refer to finished dimension is in mm.



DETAIL H



| A | Reaction Force (kN) | |
|------|------------------------------|-------------------------------|
| | Without intermediate support | With one intermediate support |
| 600 | R1=4.05xL+16.5 | R1=4.05xL2+14 |
| | R2=4.05xL+8.5 | R2=4.05xL1+7 |
| 800 | R1=4.45xL+17 | R1=4.45xL2+16 |
| | R2=4.45xL+9.5 | R2=4.45xL1+7.5 |
| 1000 | R1=4.95xL+19.5 | R1=4.95xL2+17.2 |
| | R2=4.95xL+10.5 | R2=4.95xL1+8.3 |
| | | R3=5.2xL+11.3 |

Note. 1.L, L1,L2 are in meters.
2. L1 and L2 do not exceed 15m

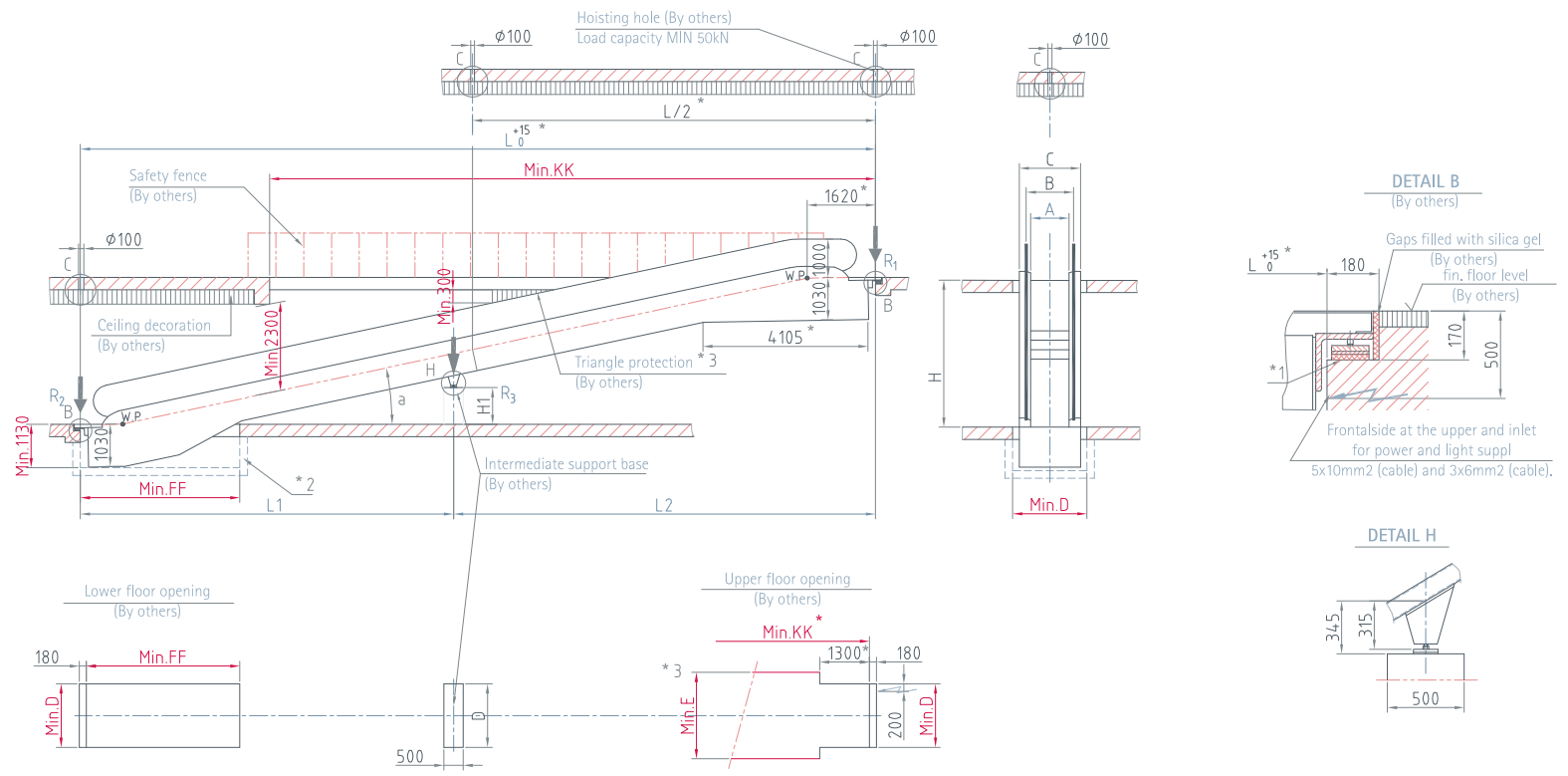
VERTICAL BALUSTRADE

| | A | 800 | 1000 |
|---|------|------|------|
| B | 837 | 1037 | 1237 |
| C | 1195 | 1395 | 1595 |
| D | 1270 | 1470 | 1670 |
| E | 1910 | 2110 | 2310 |

INCLINED BALUSTRADE

| | A | 800 | 1000 |
|---|------|------|------|
| B | 910 | 1110 | 1310 |
| C | 1195 | 1395 | 1595 |
| D | 1270 | 1470 | 1670 |
| E | 1910 | 2110 | 2310 |

| TYPE | a | Upper radius | AA | BB | CC | DD | EE | FF | JJ | MM | KK |
|-------------------------|-----|--------------|------|------|---------|------|------|------|-----|------|------|
| MP SIERRA / PIRINEO 302 | 30° | 1500 | 2231 | 2598 | Hx1.732 | 2370 | 2815 | 4530 | 870 | 1060 | 8000 |
| MP SIERRA / PIRINEO 303 | 30° | 1500 | 2631 | 2998 | Hx1.732 | 2770 | 3215 | 4930 | 870 | 1060 | 8400 |
| MP SIERRA / PIRINEO 304 | 30° | 1500 | 3031 | 3398 | Hx1.732 | 3170 | 3615 | 5330 | 870 | 1060 | 8800 |
| MP SIERRA / PIRINEO 352 | 35° | 1500 | 2266 | 2682 | Hx1.428 | 2505 | 2780 | 4420 | 850 | 1080 | 7200 |
| MP SIERRA / PIRINEO 353 | 35° | 1500 | 2666 | 3082 | Hx1.428 | 2905 | 3180 | 4820 | 850 | 1080 | 7600 |
| MP SIERRA / PIRINEO 303 | 30° | 2700 | 2863 | 3283 | Hx1.732 | 3000 | 3500 | 5160 | 870 | 1060 | 8800 |
| MP SIERRA / PIRINEO 304 | 30° | 2700 | 3263 | 3683 | Hx1.732 | 3400 | 3900 | 5560 | 870 | 1060 | 9220 |



PONT

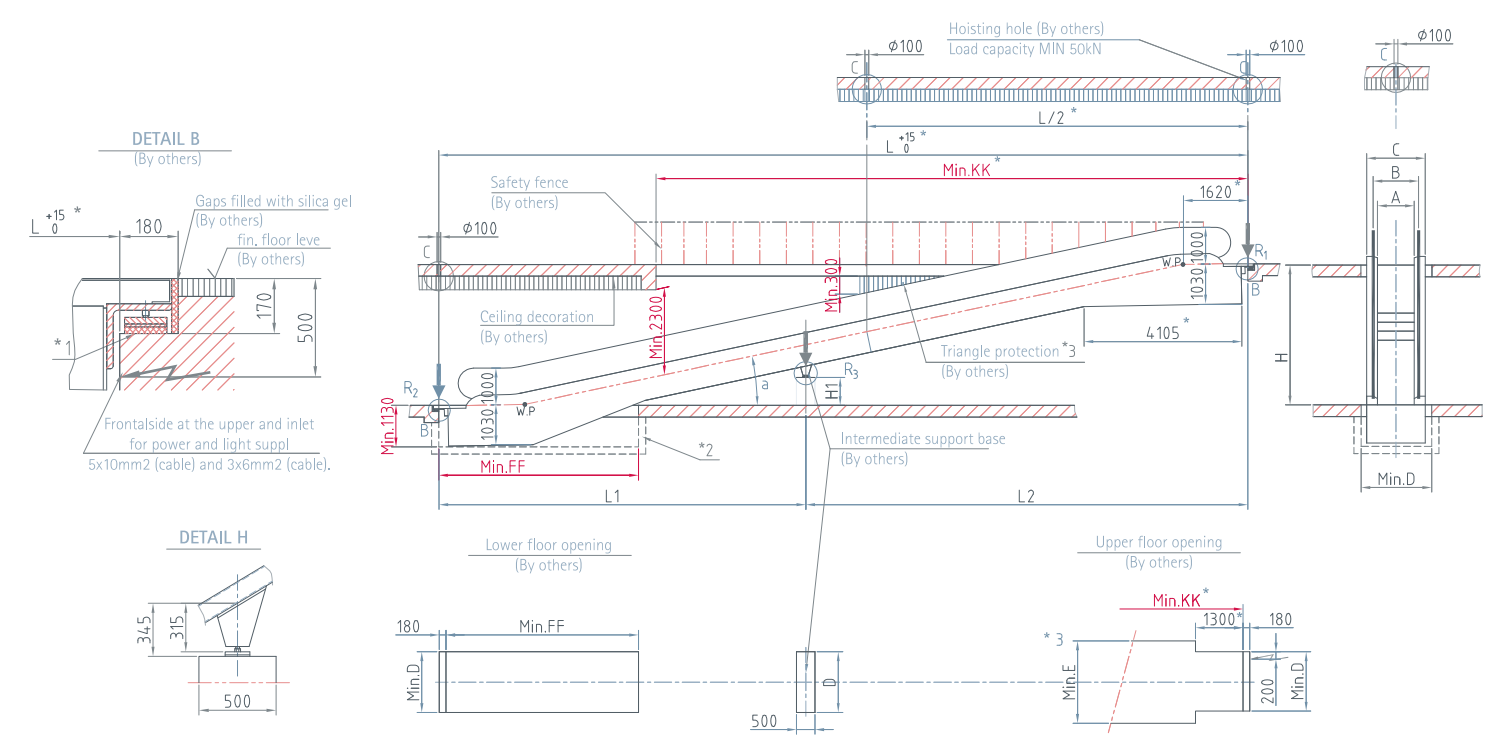
| A | Reaction Force (kN) |
|------|---------------------|
| 800 | $R1=3.45xL2+14$ |
| | $R2=3.45xL1+7$ |
| | $R3=4xL+16$ |
| 1000 | $R1=3.85xL2+15.5$ |
| | $R2=3.85xL1+7.5$ |
| | $R3=4.5xL+17$ |

Note. 1.L, L1,L2 are in meters.
2. L1 and L2 do not exceed 15m.
3. Applicable in case of one intermediate support.

| A | 800 | 1000 |
|---|------|------|
| B | 1037 | 1237 |
| C | 1345 | 1545 |
| D | 1400 | 1600 |
| E | 2050 | 2250 |

| TYPE | a | L | KK | FF |
|------------|-----|--------------|-------|------|
| MP PONT 10 | 10° | HX5.671+2650 | 17700 | 4490 |
| MP PONT 11 | 11° | HX5.145+2555 | 16700 | 4230 |
| MP PONT 12 | 12° | HX4.705+2475 | 15800 | 3980 |

- Notes:
- Mark*
Mark*1: Supports need to be in true level
Mark*2: If there is pit, this need to be water proof and smooth
Mark*3: If dimension E can not be guaranteed, a guard acc EN115 must be provided as shown (by others).
 - According to EN115, the entrance of bothing landing must have enough area to facilitate the traffic flow
 - All dimension refer to finished dimension is in mm
 - The intermediate support base can be made by concrete or metallic structure (By others).
 - Dimensions with mark * should be extended 500 mm in case double drive or VVF are included.



PONT F

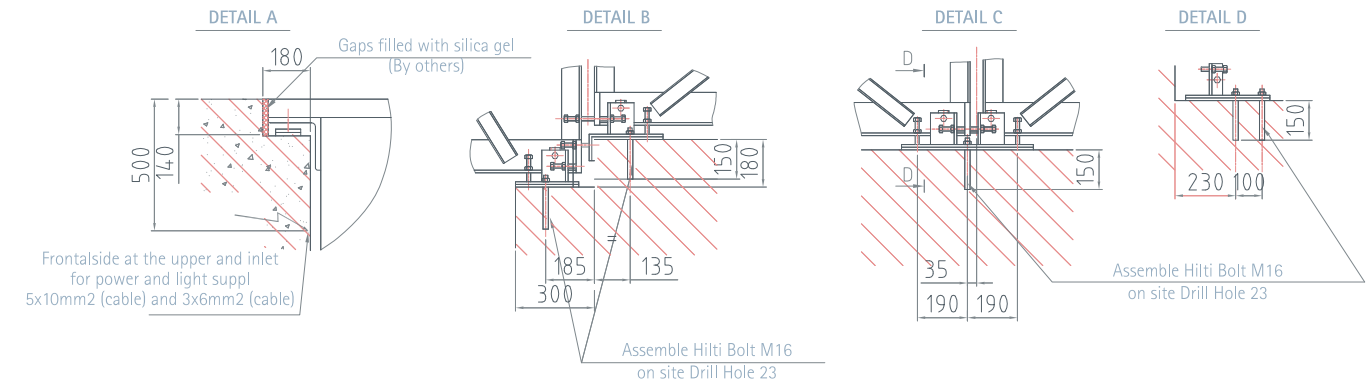
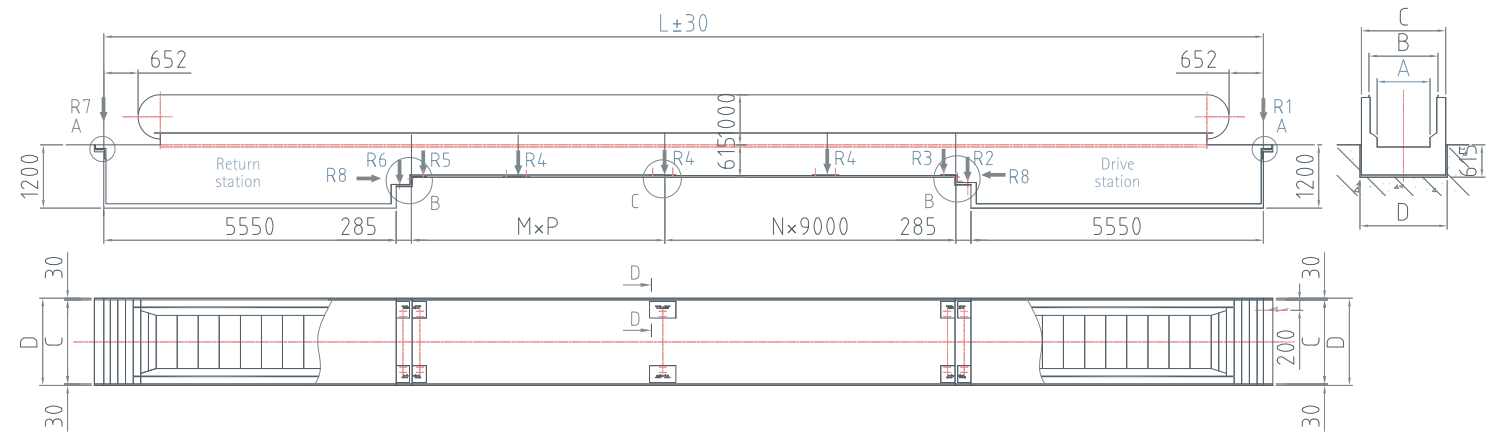
- Notes:
- Mark*
Mark*1: Supports need to be in true level
Mark*2: If there is pit, this need to be water proof and smooth
Mark*3: If dimension E can not be guaranteed, a guard acc EN115 must be provided as shown (by others).
 - According to EN115, the entrance of bothing landing must have enough area to facilitate the traffic flow
 - All dimension refer to finished dimension is in mm
 - The intermediate support base can be made by concrete or metallic structure (By others).
 - Dimensions with mark * should be extended 500 mm in case double drive or VVF are included.

| A | 800 | 1000 |
|---|------|------|
| B | 1037 | 1237 |
| C | 1345 | 1545 |
| D | 1400 | 1600 |
| E | 2050 | 2250 |

| TYPE | a | L | KK | FF |
|--------------|-----|--------------|-------|------|
| MP PONT F 10 | 10° | Hx5.671+3945 | 17700 | 5740 |
| MP PONT F 11 | 11° | Hx5.145+3755 | 16700 | 5480 |
| MP PONT F 12 | 12° | Hx4.705+3595 | 15800 | 5230 |

| A | Reaction Force (kN) |
|------|---------------------|
| 800 | $R1=3.45xL2+14$ |
| | $R2=3.45xL1+7$ |
| | $R3=4xL+16$ |
| 1000 | $R1=3.85xL2+15.5$ |
| | $R2=3.85xL1+7.5$ |
| | $R3=4.5xL+17$ |

Note. 1.L, L1,L2 are in meters.
2. L1 and L2 do not exceed 15m.
3. Applicable in case of one intermediate support.



PONT H

- Notes:
1. Supports need to be in true level.
 2. If there is pit, this need to be water proof and smooth.
 3. According to EN115, the entrance of bothing landing must have enough area to facilitate the traffic flow.
 4. All dimension refer to finished dimension is in mm.
 4. The intermediate support base can be made by concrete or metallic structure (By others).
 5. Dimensions with mark * should be extended 500 mm in case VVVF is included.

| A | 1400 | 1200 | 1000 |
|----------------|-------|------|------|
| Reaction Force | | | |
| R1 | 45kN | 38kN | 31kN |
| R2 | 28kN | 25kN | 22kN |
| R3 | 70kN | 62kN | 54kN |
| R4 | 108kN | 95kN | 82kN |
| R5 | 70kN | 62kN | 54kN |
| R6 | 27kN | 24kN | 21kN |
| R7 | 43kN | 36kN | 29kN |
| R8 | 45kN | 40kN | kN35 |

VERTICAL BALUSTRADE

| A | 1400 | 1200 | 1000 |
|---|------|------|------|
| A | 1400 | 1200 | 1000 |
| B | 1637 | 1437 | 1237 |
| C | 1995 | 1795 | 1595 |
| D | 2055 | 1855 | 1655 |

INCLINED BALUSTRADE

| A | 1400 | 1200 | 1000 |
|---|------|------|------|
| A | 1400 | 1200 | 1000 |
| B | 1637 | 1510 | 1310 |
| C | 1995 | 1795 | 1595 |
| D | 2055 | 1855 | 1655 |

| A | 1400 | 1200 | 1000 |
|-----------------|------|------|------|
| Power | | | |
| Max. length (m) | | | |
| 5.5 kW | 31 | 32 | 36 |
| 8 kW | 43 | 45 | 51 |
| 11 kW | 58 | 60 | 68 |
| 15 kW | 71 | 81 | 92 |



FORWARD
IN ALL DIRECTIONS

PURE TECHNOLOGY IN MOTION

WAYS OF RUNNING

Escalators and moving walks

Our escalators and moving walks add a new dimension to the concept of moving forward. A wide and full range of products, capable to adapt to very specific needs as to functionality. Moreover, the potential of the saving system exceeds all expectations. Resource efficiency and optimization have never been so united.

| Saving system | LOW TRAFFIC | MEDIUM TRAFFIC | HIGH TRAFFIC | WEAR AND TEAR |
|------------------|-------------|----------------|--------------|---------------|
| SIN SISTEMA | 0 | 0 | 0 | High |
| RL[PH] | 10 | 30 | 40 | Medium |
| RP[PH], RP[CP] | 15 | 45 | 65 | Medium |
| RLP[PH], RLP[CP] | 15 | 40 | 60 | Low |

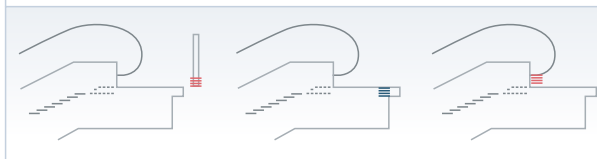
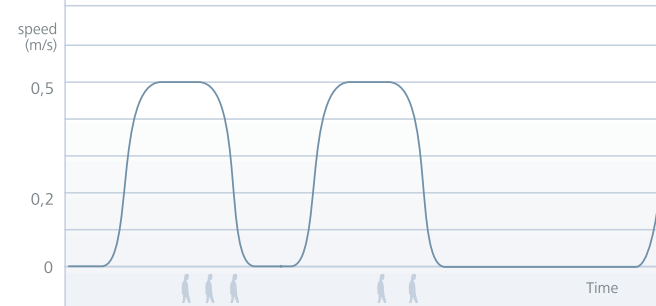
RL - Rated-low
RP - Rated -Stop
RLP - Rated-low-Stop

[PH] - Photocells
[CP] - Contact pressure on platform

Not recommended
Good performance
Optimum performance

Rated – stop

After a few seconds with no passenger entry, escalator will stop, waiting for next passenger.



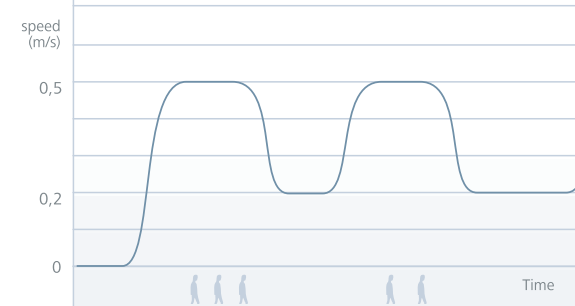
Photocell activation Contact pressure activation Diffuse photocell activation (3D)

Activation

Photocells
Contact pressure on platform

Rated – low

After a few seconds with no passenger entry, escalator will turn to standby speed, waiting for next passenger. Soft transitions thanks to variable frequency (VVVF)



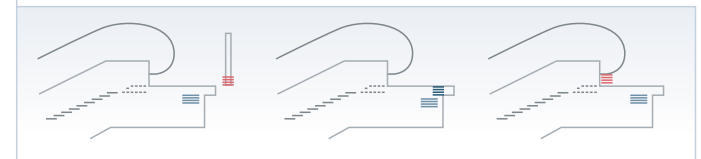
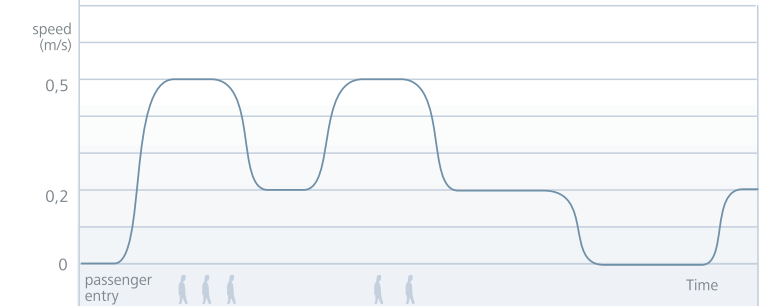
photocell-activated VVVF on skirting boards

Activation

Photocells
Variable frequency [VVVF]

Rated – low – stop

After a few seconds with no passenger entry, escalator will turn to standby speed, waiting for next passenger. If this stage is extended, escalator will stop. Soft transitions thanks to variable frequency (VVVF)



Photocell-activated VVVF contact pressure activated VVVF Diffuse photocell activated VVVF (3D)

Activation

Photocells
Contact pressure on platform
Variable frequency [VVVF]

LEADERSHIP AND QUALITY WORLDWIDE

REFERENCES

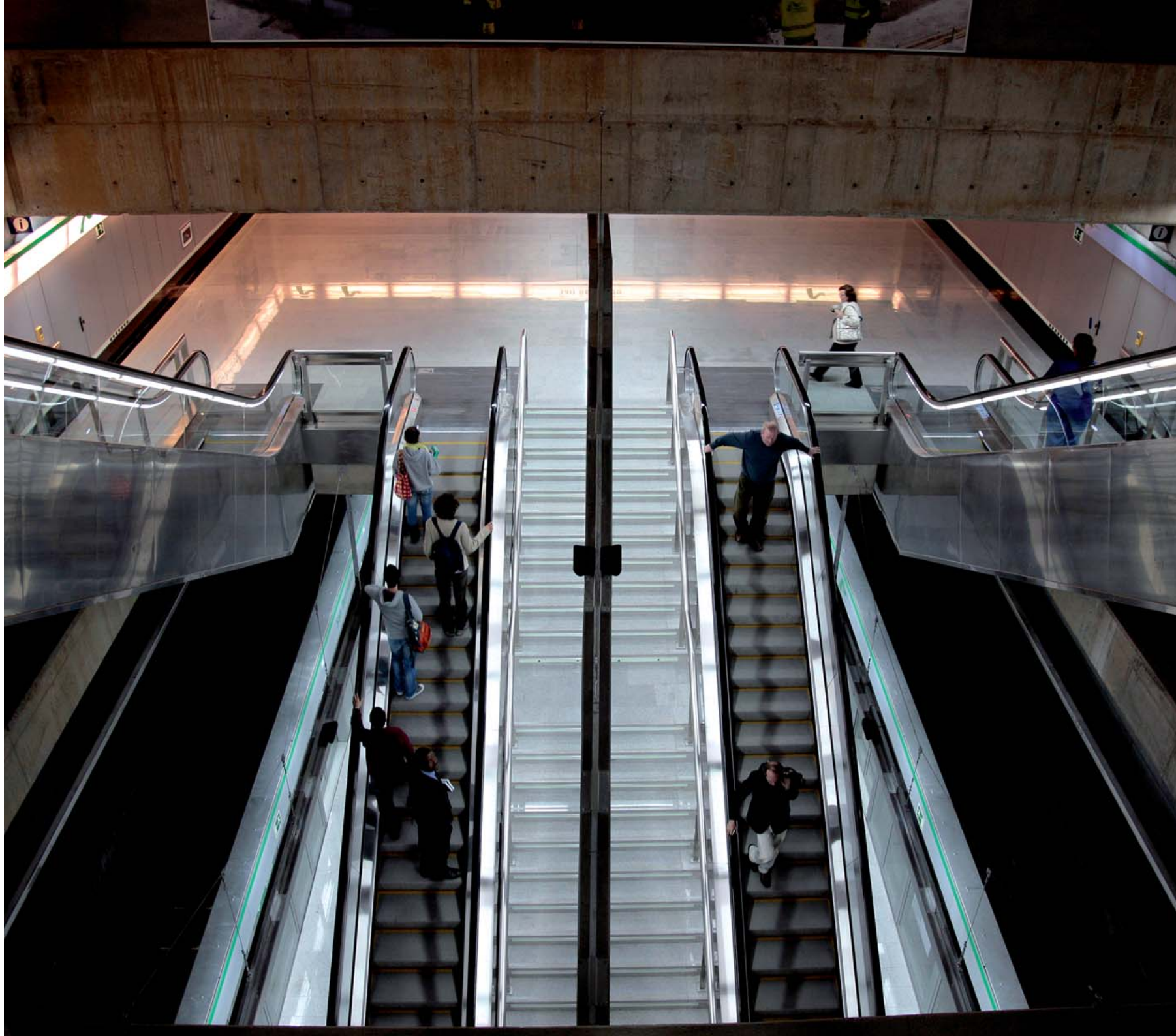
The MP STEP range perfectly adapts to very different requests and needs. A great number of successful projects confirm it.



Integration

The efficiency of MP STEP products helps us offer you solutions fully integrated with the environment.

MP STEP
Mercado de Colón
Valencia, Spain.

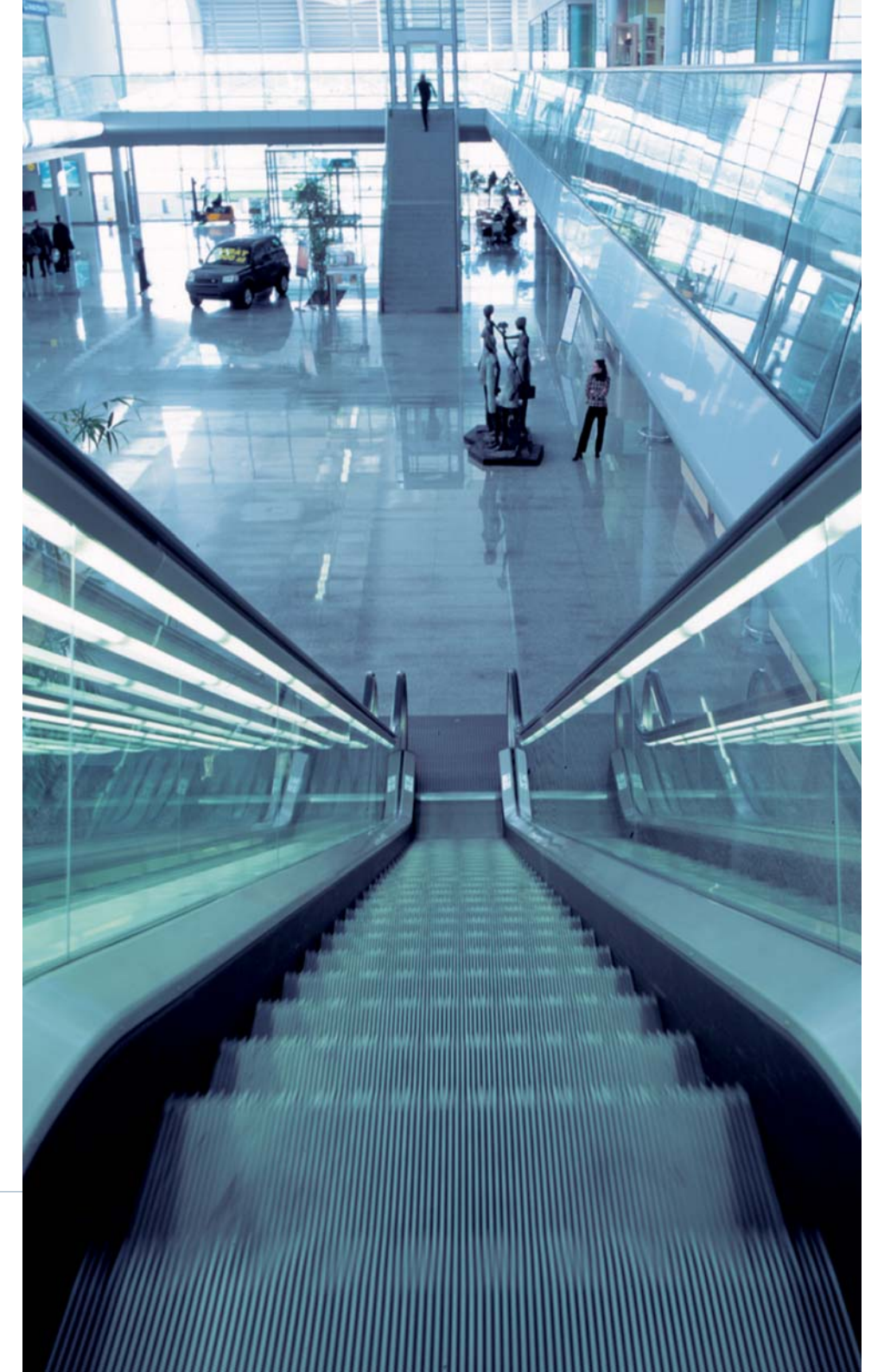


Performance

The number of passengers per hour is a fundamental parameter when choosing one of our products. The products of our range are able to carry very high traffic flows. Their performance is excellent in demanding conditions, such as in an airport or a subway station.

MP STEP
Seville metro,
Seville. Spain.

MP STEP
Poznan Airport,
Poznan. Poland.





Adaptability

The benefits of the MP STEP range expand to more products. Every project is valued as a whole, enabling us to combine different solutions of elevation with perfection. A team vision pursued in the global development of the project too, from the idea to maintenance.

MP STEP
Merkamueble.
Barakaldo - Biscay, Spain.





FOR PUBLIC BUILDINGS

MP|STEP

Reliability

The MP STEP range relies on a team of professionals. They cooperate in every phase of the project development, even from the plan of each model. An integral vision that ensures a reliable solution and more: satisfied customers.

MP STEP
Ciudad de la Justicia
Malaga. Spain.