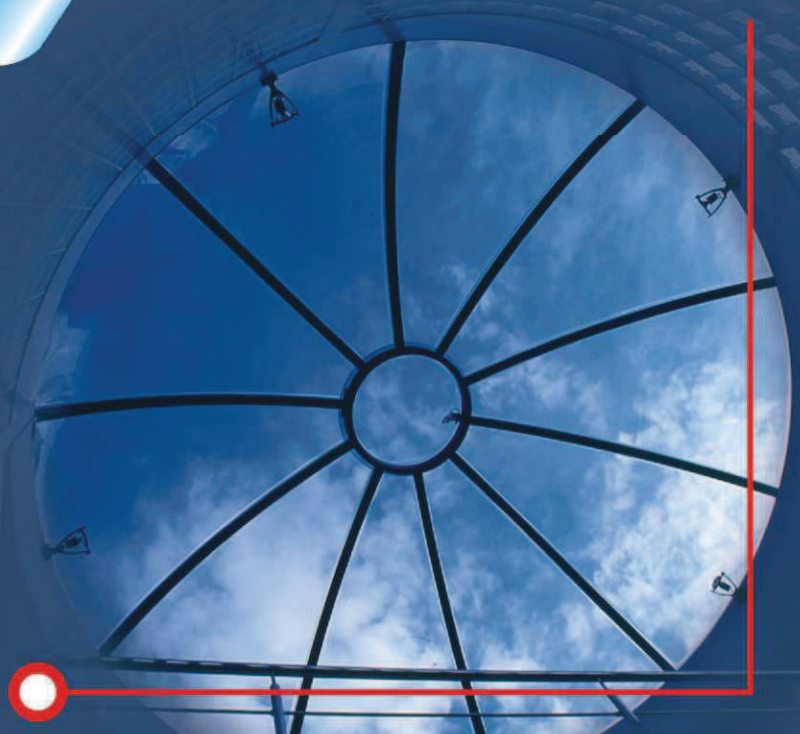
FORMS OF NATURAL LIGHT

TelForm®



FORMS OF NATURAL LIGHT

Telform borne in order to implement charter members' know-how, obtained by around tirthy-year experience both in plastic material thermo-forming and in metalworking constructions. In addition to standard productions, personalized constructions are realized with designers that give their availability to technical consults. The idea and the policy of Telform will be always continuous development of new techniques, research and experimentation with the help of new advanced technologies, as well as certified quality control.

Telform uses management system in compliance to ISO 9001:2000 for planning and production and 14001:2004 for environmental impact.

Telform special patent for lateral sliding E.F.C. gives many sole opportunities in anti fire field.

Our production is:

- **Ribbed skylight and dome:** simple or double wall in PMMA transparent or opal (standard colour) or coloured with desired colour (blue, bronze, smoky)
- **Ribbed skylight:** simple or double wall in PCC, transparent or opal, maximum dimension 170x170 cm, diameter 170 cm, 170x270 cm L.N.
- **Pyramidal skylight:** on demand
- **Devices:** manual electrical, manhole hand operated, with flyscreen, and dimming, hot smoke ventilator
- **Base, eave, fixed frames and flashing** of each type and dimension
- **Self-supported cantilever roof thermoformed**
- **Healings:** different and personalized

Telform, in order to simplify quote demand both in paper or electronic format, makes available a form that help to find articles desired, specifying some important parameters.

CHARACTERISTICS	TEST METHOD	UNIT	METHACRYLATE (PMMA)	POLYCARBONATE (PC)
Density	ISO 1183 DIN 53479	g/cm³	1.19	1.2
Bending strenght to 23 °C	ISO 178 DIN 53452	MpA	120 ÷ 140	90
Tensile strenght	ISO 527	MpA	75	70
Charpy value	ISO 179/1D *without notch* ISO 179/2C *with notch*	KJ/m²	10 (without notch)	35 (with notch)
Light transmission	DIN 5036 D 1003	%	>92	84 ÷ 89
Softening Temperature	ISO 306	°C	>110	145
Thermal conductivity	DIN 52612	W/m°C	0.19	0.20
Fire performance	EN 13501-1 EN 13238 EN ISO 11925-2	Class	E – s0 – d0	B – s2 – d0
Thermal transmittance for ribbed skylight	SIMPLE WALL = 4,6 cal/mq h°C DOUBLE WALL = 2 cal/mq h°C			

Telform for its products uses only first-rate materials. Plastic materials are selected among leader brand of this field. Specific aluminium profiles are extruded following our project using 6060 UNI 3569 alloy.

Monolithic Skylight and Spherical Section Domes

art.	CIRCULAR PLAIN A Clear Dimension	B Account Dimension	C Curb (*)	OPENING DEVICES hand operated	electric	manhole
211	∅30	∅45	7	NF	NF	NF
201	∅40	∅55	7	F	F	NF
Both articles with C.D. from ∅ 50 to ∅ 70 and with pitch 10 cm, have the same characteristics of art. 201						
205	∅80	∅95	7	F	F	F
Both articles with C.D. from ∅ 90 to ∅ 150 and with pitch 10 cm, have the same characteristics of art. 205						
216	∅160	∅175	7	F	F	NF
209	∅170	∅185	7	F2	F2	NF
Both articles with C.D. from ∅ 180 to ∅ 200 have the same characteristics of art. 209						

F = Foreseen –*NF* = not Foreseen –*F2*= Foreseen with 2 actuators
(*) Curb "C" = 7 cm with waterproofing/tolerance max + 0,5 cm

	32	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	200
40		101 F NF															
42	804 PL NF																
50		301 PL NF	102 F NF														
60		601 PL NF	613 PL NF	103 F NF													
70		602 PL PC	305 PL NF	626 PL PC	104 F F												
80		302 PL PC	614 PL PC	627 PL PC	638 PL PL	105 F F											
90		603 PL PC	615 PL PC	628 PL PC	639 PL PL	649 PL PL	669 F F										
100		604 PL PC	306 PL PC	629 PL PC	640 PL PL	650 PL PL	670 PL PL	106 F F									
110		605 PL PC	616 PL PC	630 PL PC	641 PL PL	651 PL PL	671 PL PL	688 PL PL	703 F F								
120		303 PL PC	617 PL PC	631 PL PC	307 PL PL	652 PL PL	672 PL PL	689 PL PL	704 F F	107 F F							
130		606 PL PC	618 PL PC	632 PL PC	642 PL PL	653 PL PL	673 PL PL	690 PL PL	705 PL PL	720 PC PL	734 F F						
140		607 PL PC	619 PL PC	633 PL PC	643 PL PL	654 PL PL	674 PL PL	691 PC PL	706 PC PL	721 PC PL	735 PC PL	749 F F					
150		608 PL NF	620 PL PC	634 PL PC	644 PL PL	655 PL PL	675 PC PL	309 PC PL	707 PC PL	722 PC PL	736 PC PL	750 PC PL	108 F F				
160		609 PL NF	621 PL NF	635 PC NF	645 PC PL	656 PC PL	676 PC NF	692 PC PL	708 PC NF	723 PC NF	737 PC NF	751 PC NF	763 PC NF	774 F NF			
170		304 PC NF	622 PL NF	636 PC NF	308 PC PL	657 PC NF	677 PC NF	310 PC NF	709 PC NF	724 PC NF	738 PC NF	752 PC NF	764 PC NF	775 PC NF	109 F2 NF		
180		610 PC NF	623 PC NF	637 PC NF	646 PC NF	658 PC NF	678 PC NF	693 PC NF	710 PC NF	725 PC NF	739 PC NF	753 PC NF	765 PC NF	776 P2L NF	786 P2L NF	794 F2 NF	
190		611 PC NF	624 PC NF	805 PC NF	647 PC NF	659 PC NF	679 PC NF	694 PC NF	711 PC NF	726 PC NF	740 PC NF	754 PC NF	766 PC NF	777 P2L NF	787 P2L NF	795 P2L NF	
200		612 PC NF	625 PC NF	806 PC NF	648 PC NF	660 PC NF	680 PC NF	311 PC NF	712 PC NF	727 PC NF	741 PC NF	755 PC NF	767 PC NF	778 P2L NF	314 P2L NF	796 P2L NF	110 F2 NF
210					810 PC NF	661 PC NF	681 PC NF	695 PC NF	713 PC NF	728 PC NF	742 PC NF	756 PC NF	768 P2L NF	779 P2L NF	788 P2L NF	797 P2L NF	
220					811 PC NF	662 PC NF	682 PC NF	696 PC NF	714 PC NF	729 P2L NF	743 P2L NF	757 P2L NF	769 P2L NF	780 P2L NF	789 P2L NF	798 P2L NF	
230					812 PC NF	663 PC NF	683 PC NF	697 P2L NF	715 P2L NF	730 P2L NF	744 P2L NF	758 P2L NF	770 P2L NF	781 P2L NF	790 P2L NF	799 P2L NF	
240					813 PC NF	664 P2L NF	684 P2L NF	698 P2L NF	716 P2L NF	731 P2L NF	745 P2L NF	759 P2L NF	771 P2L NF	782 P2L NF	791 P2L NF	800 P2L NF	
250					814 P2L NF	665 P2L NF	685 P2L NF	699 P2L NF	717 P2L NF	732 P2L NF	746 P2L NF	760 P2L NF	313 P2L NF	783 P2L NF	792 P2L NF	801 P2L NF	
260					815 P2L NF	666 P2L NF	686 P2L NF	700 P2L NF	718 P2L NF	732 P2L NF	747 P2L NF	761 P2L NF	772 P2L NF	784 P2L NF	793 P2L NF	802 P2L NF	
270					816 P2L NF	667 P2L NF	687 P2L NF	701 P2L NF	719 P2L NF	733 P2L NF	748 P2L NF	762 P2L NF	773 P2L NF	785 P2L NF	315 P2L NF	803 P2L NF	

750
PC PL

Monolithic skylight – The near table allows to choose square or rectangular skylight. Line and column values correspond respectively to long and short side dimension in cm (Clear Dimension C.D.). After measures desired are found, the box that is at intersection between line and column represents your skylight.

The box ,here represented, describes the skylight of clear dimension 140x150 cm, with supporting and drainage rack (art 750 red), whose hand operated or electric device is provide with a thrust actuator on short side (PC blue), while hand hole device is provide with two thrust gas spring on long side (PL green).

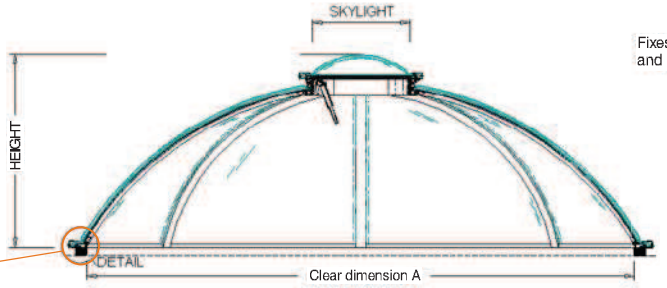
BOXES KEY

F = foreseen, NF = not foreseen, F2 = foreseen with 2 actuators, PC = short side thrust, PL = long side thrust, P2L = 2 actuators on long side

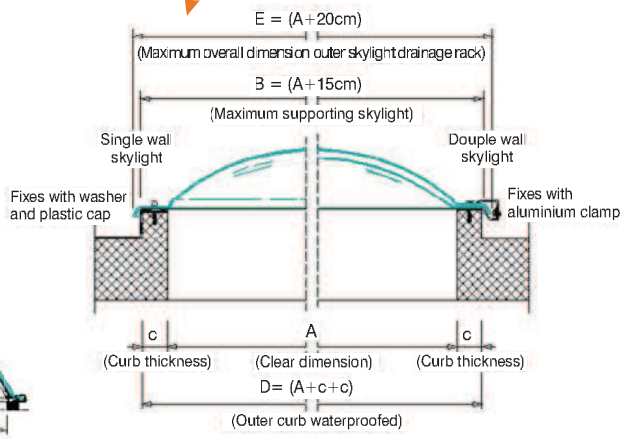
The only one dimensional variant in our skylight is Clear Dimension (C.D.).

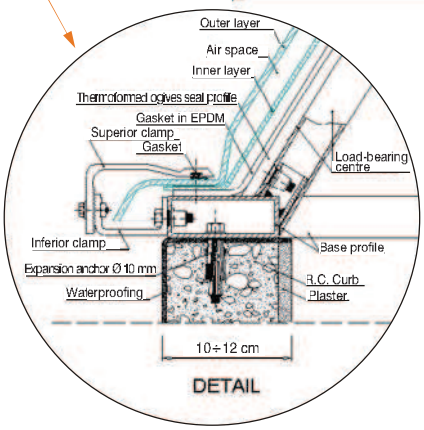
All other parts have the same constant dimensions ("B","c","D","E") like indicated in the scheme below .
We remember you that "c" must be always 7 cm inclusive of waterproofing/tolerance max + 0,5 cm.

ART.	CLEAR DIMENSION A	OGIVES NUMBER	HEIGHT	∅ RIDGE SKYLIGHT	WEIGHT (kg) Approximately
505	∅300	6	110 cm	∅60	250
501	∅350	6	125 cm	∅60	300
502	∅450	8	160 cm	∅80	460
503	∅550	10	180 cm	∅100	650
504	∅650	12	200 cm	∅180	790



SECTION X-X





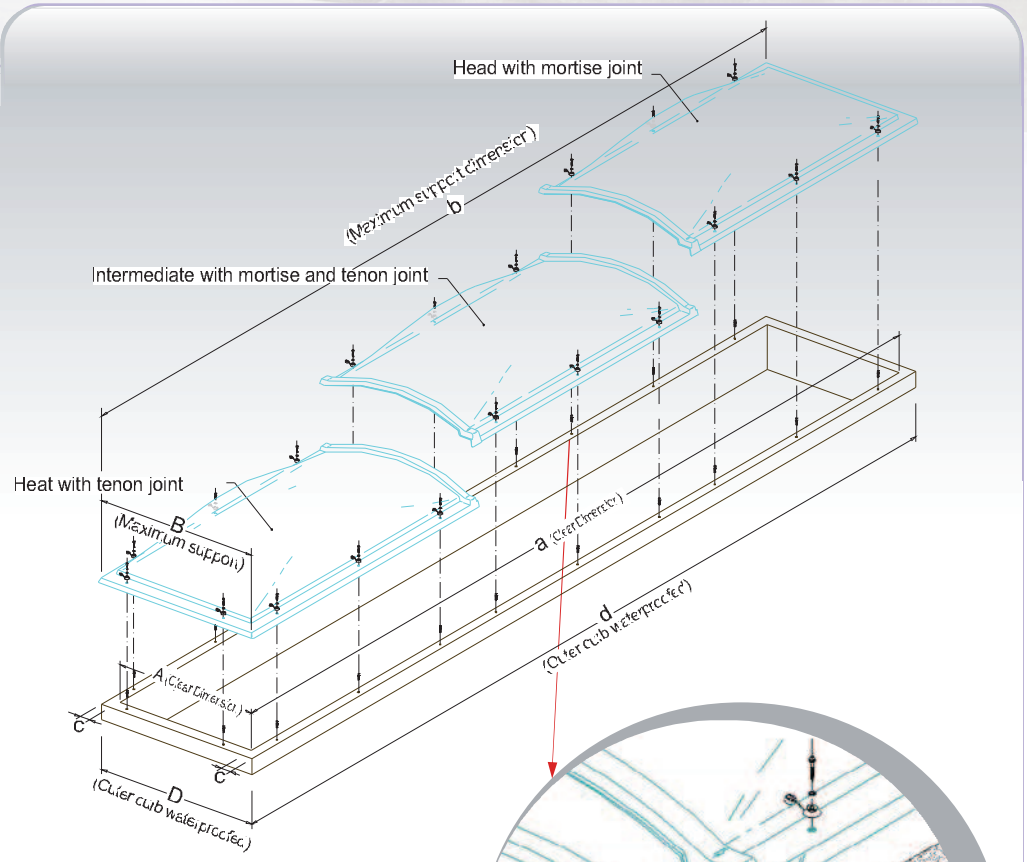
Spherical section domes They are made by thermoformed ogives with double metal frame and opening ridge skylight for ventilation. It's possible to realize personalized dimensions domes.

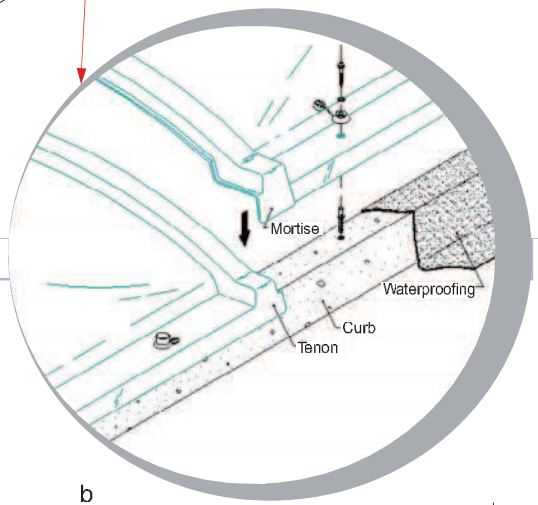
Continuous Modular Skylights

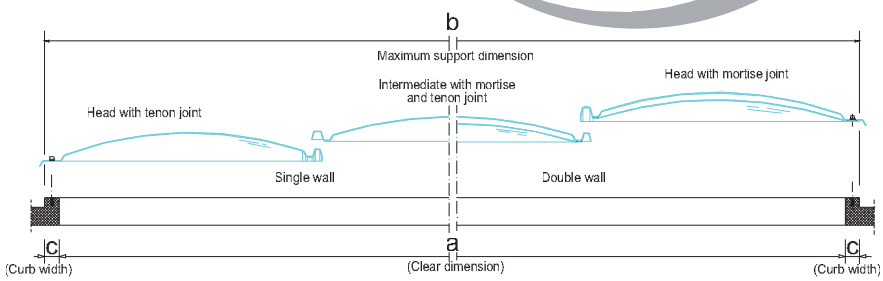
They are made by thermoformed modules with support frame and, mortise and tenon joint. Using this system it's possible to cover spaces with fixed width and length desired, even with 1 cm pitch. It's possible to provide Continue Modular Skylight with devices of total or partial opening.

MODULAR			
art.	A x a Clear Dimension	B x b Maximum support	C Curb (*)
401	40 x a	55 x b	7
410	50 x a	65 x b	7
402	60 x a	75 x b	7
403	70 x a	85 x b	7
404	80 x a	95 x b	7
411	90 x a	105 x b	7
405	100 x a	115 x b	7
412	110 x a	125 x b	7
406	120 x a	135 x b	7
413	130 x a	145 x b	7
414	140 x a	155 x b	7
407	150 x a	165 x b	7
415	160 x a	175 x b	7
418	165 x a	180 x b	7
408	170 x a	185 x b	7
419	175 x a	190 x b	7
416	180 x a	195 x b	7
417	190 x a	205 x b	7
409	200 x a	215 x b	7
420	230 x a	245 x b	7

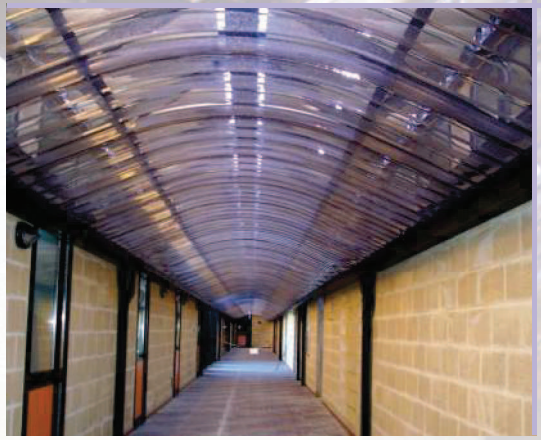
(*) Curb "C" = 7 cm inclusive of waterproofing/tolerance max + 0,5 cm

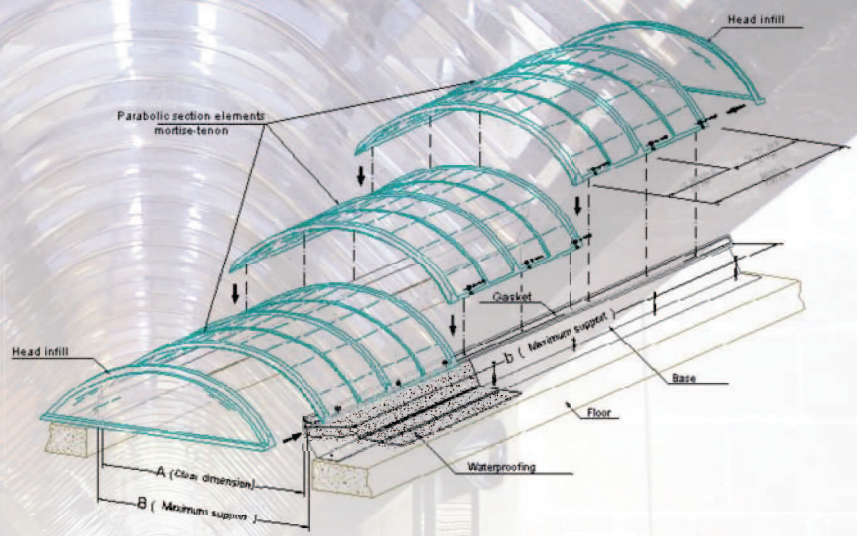




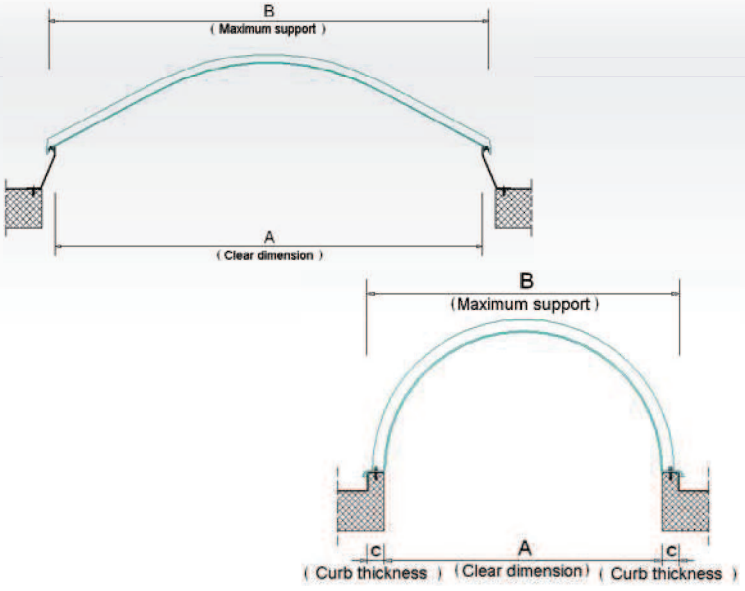


SELF-SUPPORTING THERMOFORMED TUNNEL



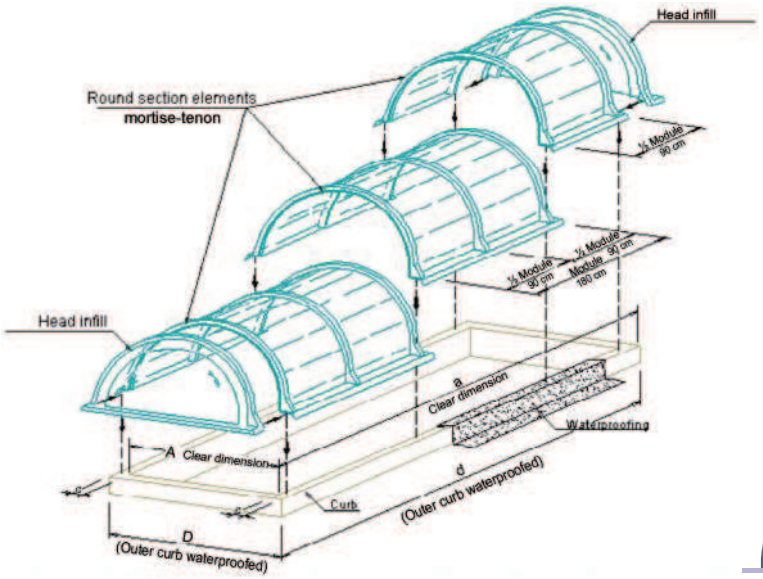


Self-supported tunnel, without metal support frame, are made by thermo-deforming monolithic methacrylate sheet with round or low section, supporting and drainage rack. They have constant thickness because they aren't drawing out by thermoforming, but only putting down particular dies giving desired shape.



SELF- SUPPORTING TUNNEL		A x a	B x b	C	Height	Modules Or Multiple
art.		Clear Dimension	Maximum Support	Curb (*)	H	
Round Section	001	100 x a	115 x b	7	50	180 - 90
	002	120 x a	135 x b	7	60	180 - 90
	003	150 x a	165 x b	7	75	180 - 90
	004	170 x a	185 x b	7	85	180 - 90
	005	200 x a	215 x b	7	100	180 - 90
	006	220 x a	235 x b	7	110	180 - 90
	007	240 x a	255 x b	7	120	180 - 90
Parabolic	031	140 x a	155 x a	7	60	100 - 50
	032	165 x a	180 x a	7	65	100 - 50
	033	175 x a	190 x a	7	65	100 - 50
	034	265 x a	280 x a	7	50	100 - 50
	035	305 x a	320 x a	7	65	100 - 50
	036	330 x a	345 x a	7	60	100 - 50
	037	365 x a	380 x a	7	65	100 - 50

(*) Curb "C" = 7 cm inclusive of waterproofing/tolerance max + 0,5 cm



Smoke and Heat Exhaust Ventilators "VITAL DOME S/R"

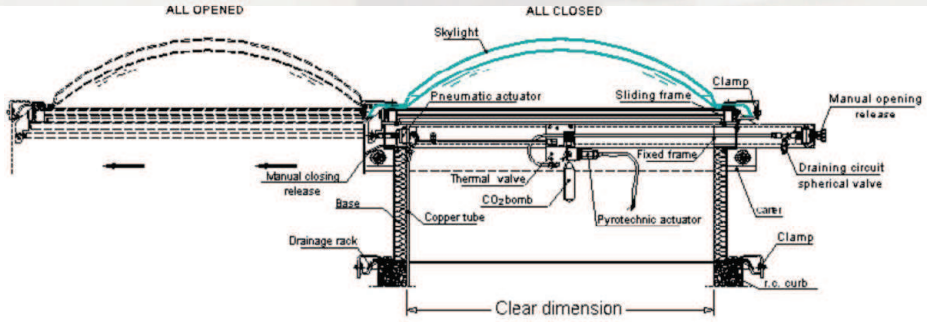
The patented EFC **"VITAL DOME S"** slidings totally overhanging on one side, letting vent surface free to improve air, smoke gas and heat flowing. It doesn't need other actuators for daily opening to air exchanging

The patented EFC with lateral sliding 180° (**VITAL DOME S**) and the other ones with overturning 165° (VITAL **DOME R**), got thought all tests that are in UNI EN 12101-2: 2003, obtaining this specification:

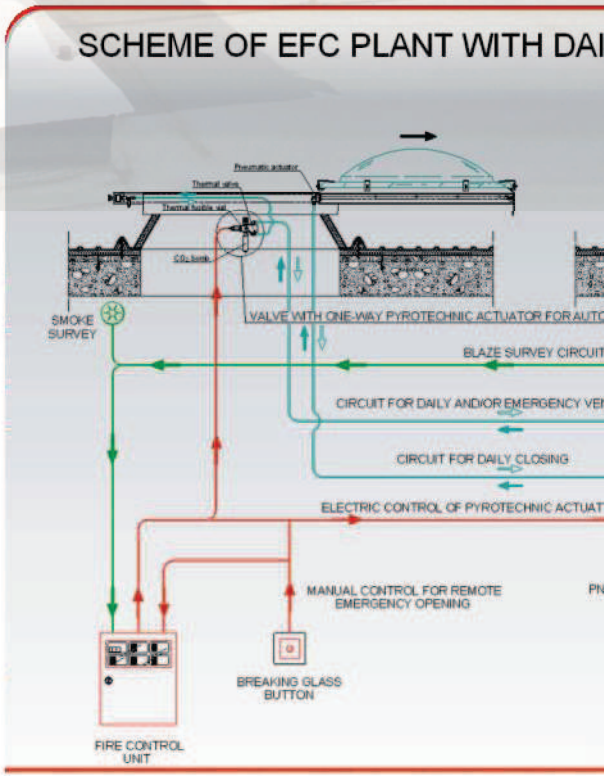
MODEL	RESULT	TEST
VITAL DOME S	RE 2000	Reliability at 2000 consecutive function cycles in fire opening position with over 1000 openings did to guarantee the use of exhaust ventilators also for daily ventilation
VITAL DOME R	RE 50	Reliability at 50 consecutive function cycles in fire opening position
VITAL DOME S	SL 1000	Opening of device under uniformly distributed load, with lateral wind that opposites to opening with speed 10 m/s and with 1000 Pa load
VITAL DOME R	SL 500	Opening of device under uniformly distributed load, with lateral wind that opposites to opening with speed 10 m/s and with 500 Pa load
VITAL DOME S	WL 1500	Simulated wind load, applying uniformly distributed load of 1500 Pa for 10 min on
VITAL DOME R	WL 1500	exhaust ventilators positioned overturned
VITAL DOME S	B 300	Heat resistance test is realized by covering a oven-room for 30 min (5 min closed and 25 min in fire opening position) with device completed by base and skylight, at 300 °C
VITAL DOME R	B 300	

It's possible to make EFC VITAL DOME with these dimensions:

- **VITAL DOME R**:
  - Square: from minimum C.D. 80x80 cm , to C.D. 170x170 cm minimo 80x80 cm, with variant pitch of 10 cm.
  - Rectangular: from minimum C.D. 80x90 cm to C.D. 130x250 cm, with variant pitch of 10 cm.
- **VITAL DOME S**: from minimum C.D. 70x70 cm to C.D. 130x250, with variant pitch of 10 cm.

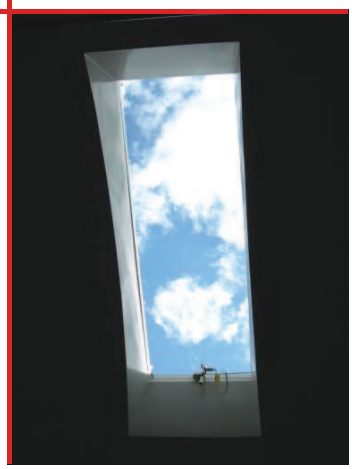


TRANSVERSE SECTION



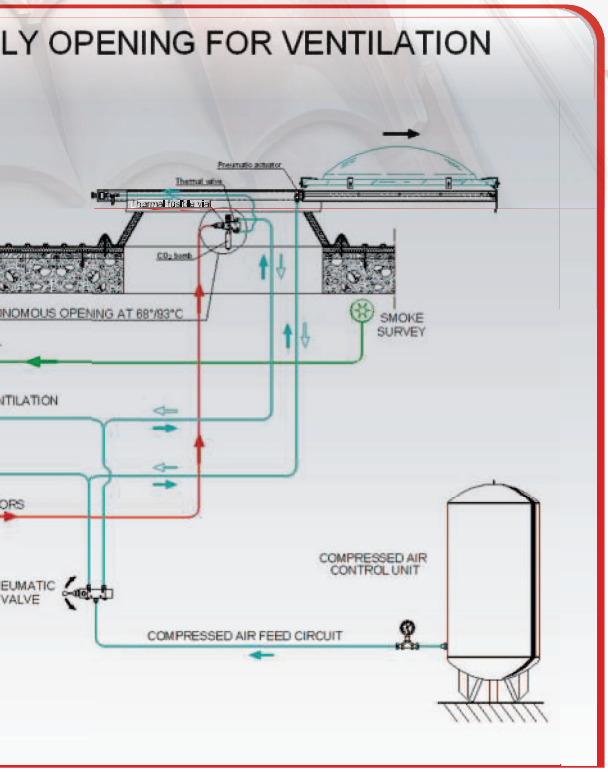
Both "S/R" systems work using the same concept: pneumatic actuator feed by dedicated compressed gas bomb , activated by thermal valve set at 68°C or 93°C. The remote opening manual or electric, can be made by one-way electric system like pyrotechnic actuator; using electromagnetic rearm able multipurpose valve, or pneumatic plant controlled by BOX having different function levels.

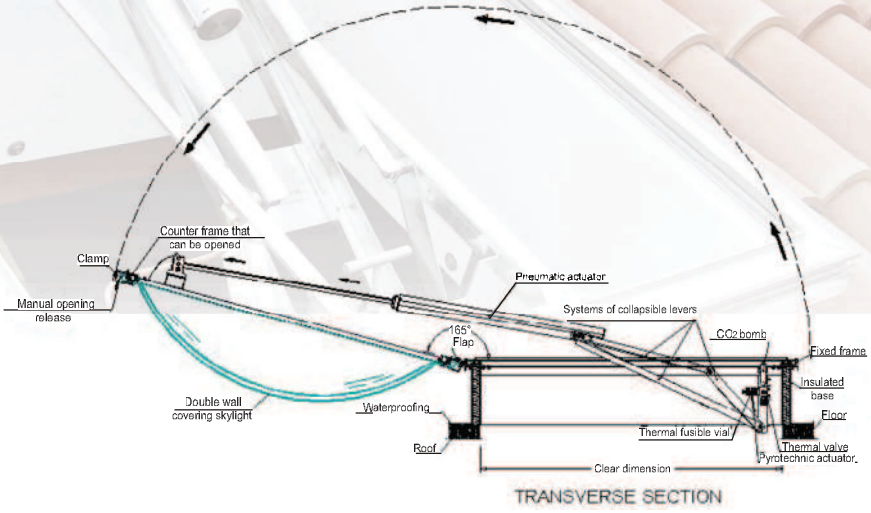
"VITAL DOME R" can permit air exchange adding electric actuator.



EFC BY TELFORM

Smoke and Heat Exhaust Ventilators





TRANSVERSE SECTION

Fittings for controlling and managing EFC

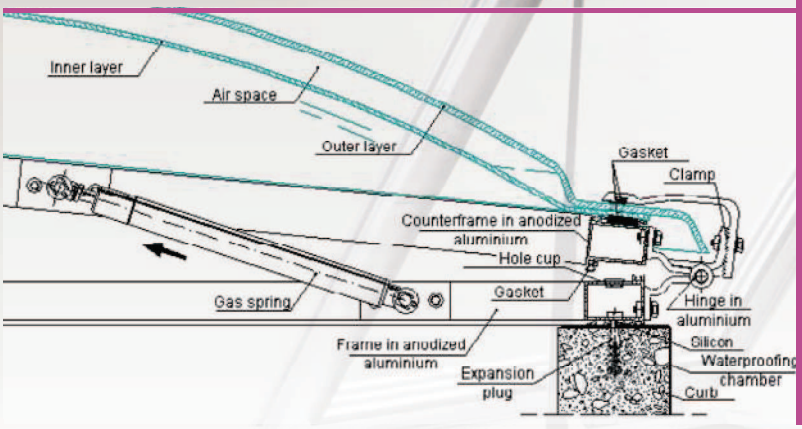
Minimal data to find opening skylight, and in particular "VITAL DOME" system that you are interested into.

	SKYLIGHT			DEVICE							Nr.	BASE
	Wall (S/D)	Material (PCC/PMMA)	Colour (B/T/A)	Model (S/R)	SUA	SUT	L.N.	SET (68°/93°)	Opening (Am/Ae/I/AI/PU)	Control (Bo/Pi/Em)		
	NOTES											
Skylight	S to choose single wall or D to choose double wall											
Skylight	PCC for thick polycarbonate or PMMA for thick methacrylate											
Skylight	B for white, T for transparent or A for other (blue, bronze, smoky)											
DEVICE	S for patented sliding 180° or R for overturning 165°											
DEVICE	SUA indicate the required value [mq] of vent area (*)											
DEVICE	SUT indicate the required value [mq] of total vent area (*)											
DEVICE	L.N. indicate clear dimension [cm] (hole)											
DEVICE	68° - 93° set temperature at which vial that permits opening, fuses											
DEVICE	Am/e only air clearing Manual/Electric – I only blaze- AI for both ones – PU manhole											
DEVICE	Bo for BOX pneumatic control and management; Pi for one-time pyrotechnic actuator or Em for rearm able electromagnetic actuator, linked at control unit aimed at smoke survey and blaze control											

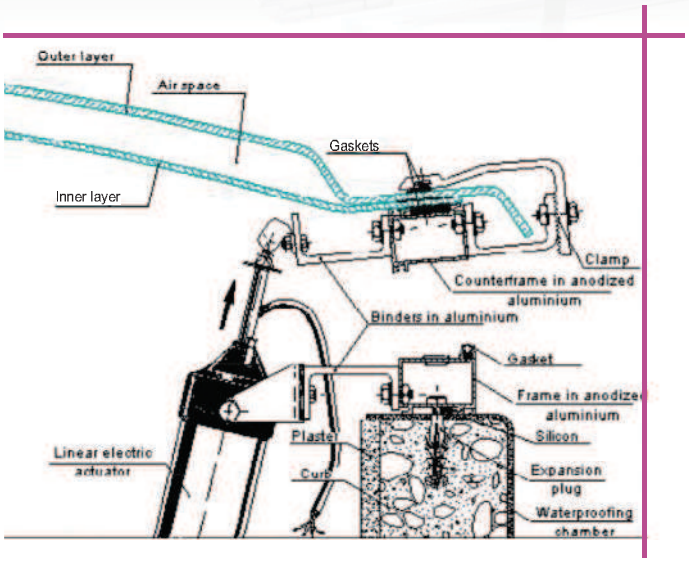
BASE DATA (look relating section)

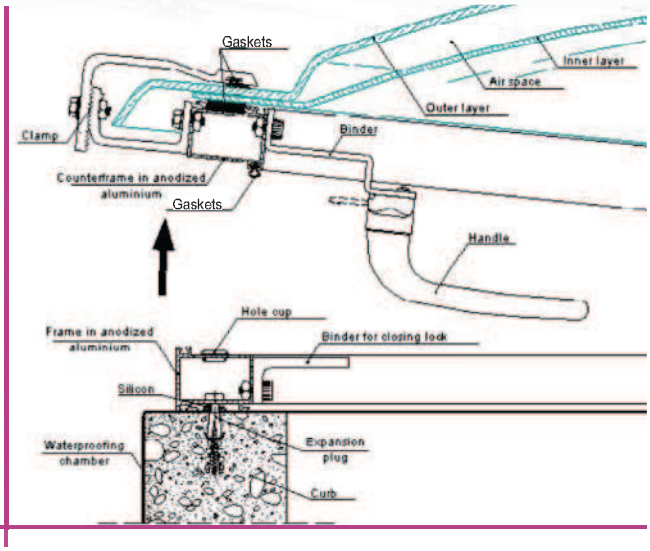
(*) C.D. must be indicated always with SUA and SUT, or at least with one of them

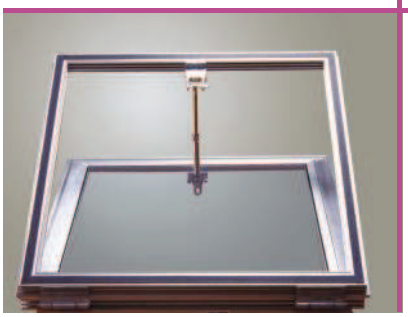
All devices have double frame, hinged, one fixed and the other one that can be opened. They are made by particular profiles in anodized aluminium, natural gray coloured, extruded basing on our project in 6060 alloy UNI3569. They are have also fittings for fixing and gaskets for withstanding atmospheric agents, air and dust.



Manhole opening is driven by one handle and two gas spring that allow to skylight to remain opened even if there's headwind.

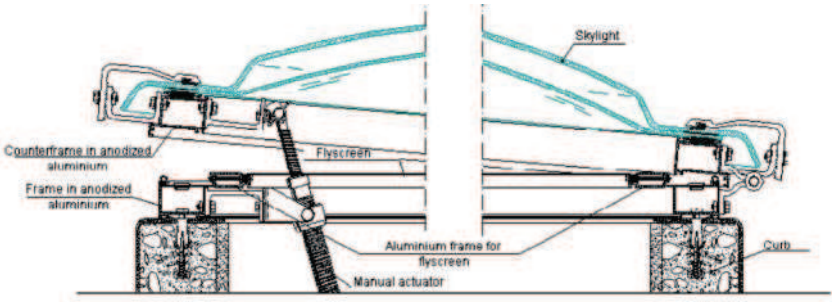






Manual opening is driven by a mechanical actuator that works by a double effect worm-screw, of 30 cm path , driven by removable bar in anodized natural grey coloured aluminium.

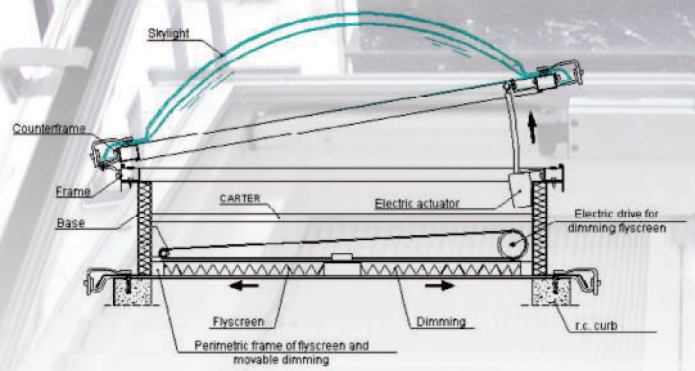
The fixed **flyscreen** is made by a profile in natural grey coloured anodized aluminium and net in synthetic fibre. It's screwed directly on devices frames.



Double wall skylight with manual opening and fixed flyscreen

Electric opening is driven by actuators at 220 V, with path of 20 and 30 cm.

Flyscreen – Dimming – Fixed frames – Flashings – Eaves

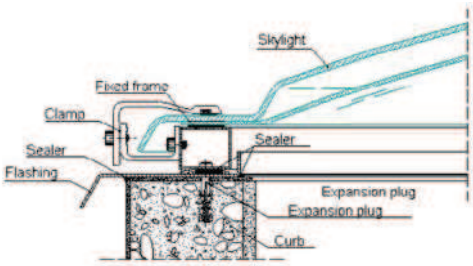


Double wall skylight that can be opened electrically with base and dimming-flyscreen driven electrically

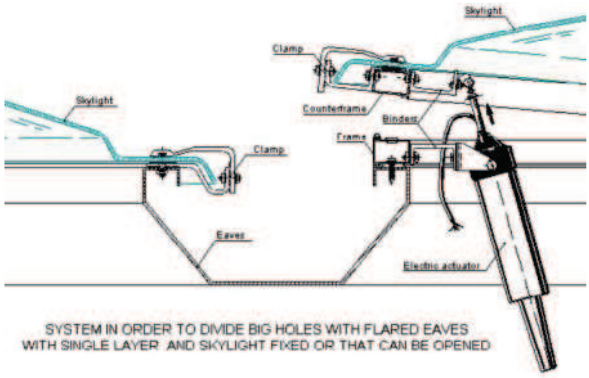
Electric dimming – flyscreen together, made by profile in aluminium white paint, in synthetic fibre net grey paint and white dimming sheet, both pleated. These fittings must always match with support base. They aren't available for circular skylight, but only for square and rectangular plan, minimum C.D. dimensions are 40 x 50 cm, and maximum ones are 130 x 150 cm.

In order to set up in a correct way, fixed skylight on curbs that aren't flat or that are larger than foreseen (8/10 cm), it's necessary to interject a **frame** that avoids drainage rank touches curb: "**fixed frame**".

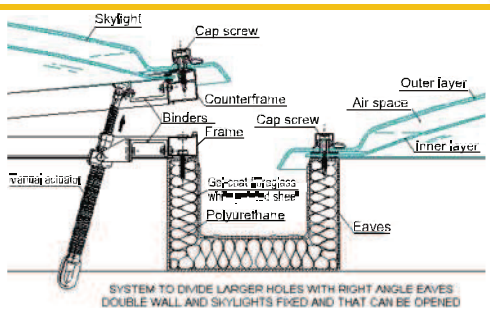
Flashing, is useful to cover curbs larger than foreseen (10/25 cm), and is made in die bent galvanized sheet, white pre-painted, or if it's available in polyester resin reinforced by glass fibre and protected by white gel-coat.



DETAIL OF SKYLIGHT COMPLETED BY FIXED FRAME E FLASHING (OPTIONAL)



SYSTEM IN ORDER TO DIVIDE BIG HOLES WITH FLARED EAVES WITH SINGLE LAYER AND SKYLIGHT FIXED OR THAT CAN BE OPENED



SYSTEM TO DIVIDE LARGER HOLES WITH RIGHT ANGLE EAVES DOUBLE WALL AND SKYLIGHTS FIXED AND THAT CAN BE OPENED

Eaves, made by the same materials and kind of bases, allow the fixing of a skylight side and an easy water flows.

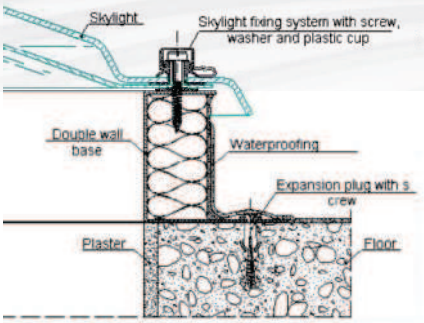
An **eaves grid** is the faster and most cost-effective solution to cover, light , and ventilate middle and large surfaces, likes air shaft, meeting rooms, winter gardens, expositive entrance halls, covered alleys between buildings, etc ... The big holes become aggregated of other ones means or smaller because of single eaves, or eaves crossed. These new holes can be covered by monolithic skylight, fixed or that can be opened, or by continuous modules, or thermoformed tunnel.

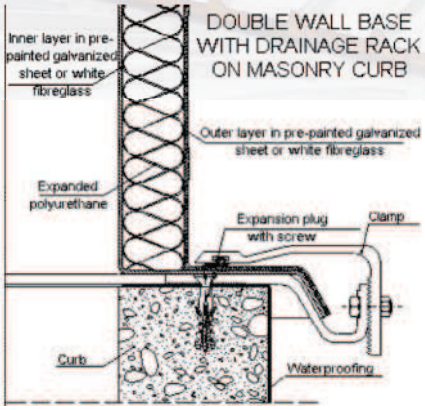
BASES AND EAVES

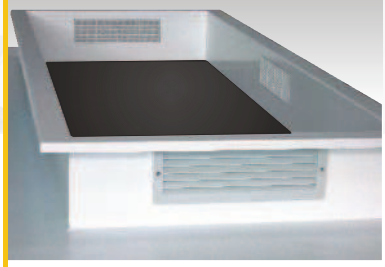
Bases used to support and fix at floor can be right angle or have a truncated – pyramidal shape. Inner layer in made by galvanized sheet white pre-painted, and outer layer is made by polyester resin reinforced by glass fibre and protected by white gel-coat, or one of these layers can be all made by fibreglass or sheet; chamber is filled by expanded polyurethane.

Shutter bases for natural continuous ventilation are made by particular profiles in galvanized steel white painted, that have standard height of 30 cm. They allow constant e continuous ventilation. They can be set up directly on masonry curb, because they have perimeter flashing – drainage rank.

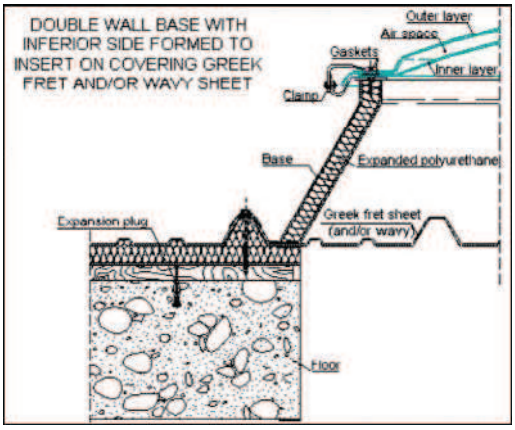
DOUBLE WALL BASE WITHOUT DRAINAGE RACK, FIXED DIRECTLY ON FLOOR AND WATERPROOFED







In order to reduce ventilation obtained by shutter bases, we suggest **base that has outlets** at one or more sides, essential to avoid condensate in places characterized by high damp, like bathrooms, kitchens, etc …
It's possible to furnish outlets with electric aspirator for forced ventilation in covered areas.



We produce Base-Eaves custom-made, when there are constrain at one or more perimeter sides (i.e. higher masonries, flues, piping etc…). This is a combination of Base and Eaves, in only one piece that avoids meteoric water seepage.

Minimal useful data to individuate the base of your interest

BASE									
Wall **(S/D)**	Material **(LAV/VTR/MIS)**	Colour **(B/RAL)**	Natural ventilation **(PE/BA/BAF)**	Kind of existing covering **(SI/CI/LO/LG/LC)**	**C.D.**	Outer Curb **(EC)**	Constrains **(1/2/3/4)**	Height	N°

BASE	NOTES
	S for simple wall, **D** for double wall
	LAV for painted sheet, **VTR** for fibreglass, **MIS** for painted sheet and fibreglass
	B for white colour, **RAL** indicating colour desired, optional
	PE for natural ventilation made by shutter bases, **BA** for outlets, **BAR** for aspirators
	SI to indicate floor that must be waterproofed without masonry curb, **CI** waterproofed curb, **LO** wavy fret sheet, **LC** insulated greek fret sheet
	C.D. indicate clear dimension in cm (hole)
	EC indicate outer curb dimension in cm (if it exists)
	Constrains (possible) on one or more perimeter side (i.e. higher masonries, flues, piping, etc …) 1if the constrain is on side **1**, side **2** … etc
	Indicate the base height in cm, if it is different from standard: standard base = 15 and 30 cm; shutter and outlets= 30 cm

CANTILEVER ROOFS – CUSTOMIZED COVERING

MONOLITHIC

They are made by self-supporting thermoforming of monolithic sheet. They are equipped with perimeter eaves, and are connected to masonry by a centre of a particular profile in galvanized and painted steel.
There aren't other metal supporting structures.

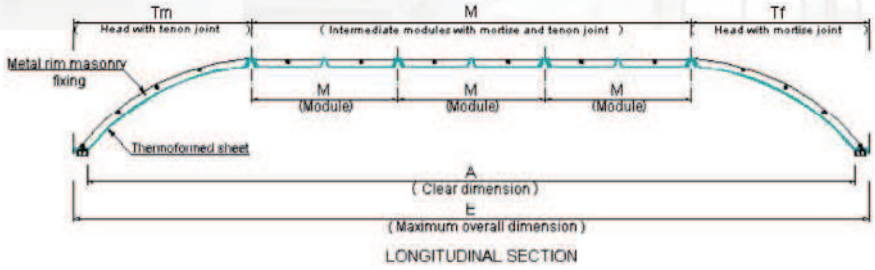
CONTINUOUS MODULES

They are made by self-supporting thermoforming of monolithic sheet, using mortise and tenon joint, and modularity. They are connected to masonry by a centre and a supporting box beam section perimeter profile made by galvanized and painted steel. **The use of rigid tie-rods near every 3 mt, is only for article number 065**

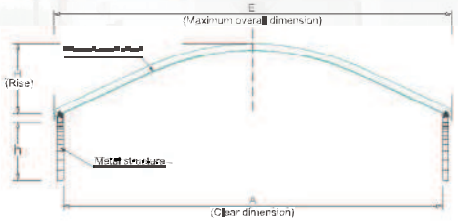
PARABOLIC

	art	Maximum overall dimension E (cm)	Maximum Deep e (cm)	Clear Dimension A (cm)	Height H (cm)	Mortise and tenon Head Tf or Tm (cm)	Module M(cm)
Monolithic	061	235	117	203	52		
Continuous modules	064	Tf + (M* Ω) + Tm	110	E – 20	65	110	50/100/150
Continuous modules	065	Tf + (M* Ω) + Tm	190	E – 20	97	190	50/100/150

Ω is the number of modules inserted between two heads



LONGITUDINAL SECTION



TRANSVERSE SECTION

EXAMPLE
If you want to realize a cantilever roof of 820 cm (lengh) and 110 cm (width) by continuous modules it will be necessary to use:
Nr. **1** Head with mortise joint (i.e. **Tf=110 cm**)
Nr. **1** Head with tenon joint (i.e. **Tm=110 cm**)
Nr. **4** Modules of **150** cm (i.e. **Ω=4 and M=150**)

Applying the formula "**Tf + (M* Ω)+Tm**" it will be 110 + (150*4) + 110, i.e. 110 + 600 + 110 = **820 cm**

	art	Maximum overall dimension E(cm)	Maximum deep e (cm)	Clear dimension A(cm)	Rice H(cm)	Support height h (cm)
PARABOLIC	070	158	108	145	62	50
	071	183	108	169	68	50
	072	192	108	178	69	50
	073	281	108	268	52	50
	074	319	108	306	68	50
	075	345	108	332	64	50
	076	379	108	367	72	50
ROUND ARCH	077	120	98	100	50	50
	078	140	98	120	60	50
	079	170	98	150	75	50
	080	190	98	170	85	50
	081	220	98	200	100	50
	082	240	98	220	110	50
	083	260	98	240	120	50

THE MOST IMPORTANT WORKS OF TELFORM IN RECENT YEARS. AN AMPLE PHEATOGRAPHICAL BROCHURE OF THESE ONES IS AVAILABLE

Logistic center :Nr. 320 sliding 180° EFC with monolithic base on Greek fret panels, pneumatic box and pipeline for remote opening - **Shopping center CARREFOUR**: 1.000 Mq of skylights, nr 175 sliding 180° EFC with flanged bases, pneumatic box and pipeline for remote opening - **Shopping center CARREFOUR**: 950 Mq of skylights, nr 175 sliding 180° EFC with flanged bases and electromagnetic valve for remote opening – **Railway freight village:** Nr. 300 overturning 165° EFC with monolithic bases on wavy panels – Logistic center: Nr. 50 overturning 165° EFC with electric opening with monolithic bases on wavy panels – **Shopping center IPERCOOP** : 600 Mq of skylights; 1.200 Mq of cambered covering with double compact polycarbonate sheet and aluminium frame; Nr 160 sliding 180° EFC with monolithic bases – **Shopping center AUCHAN:** Complete replacement of existing covering with 500 Mq of continuous modules skylights with flanged bases – **New shopping center AUCHAN:** 2.100 Mq of skylights, Nr. 90 sliding 180° EFC with monolithic bases that by mortise and tenon joint connect to fixed continuous modules – **Veterinary hospital** : 2.500 Mq of self-supporting thermoformed tunnel with lateral eaves - **Railway freight village**: Nr. 150 sliding 180° EFC with monolithic bases on wavy sheet – **Consorzio ASI opifici consortili**: Replacement of existing covering with 1.500 Mq of skylights with bases-eaves strung sort ; Nr. 80 electric devices; Nr. 50 sliding 180° EFC – **Hospital:** 450 Mq of skylights with monolithic bases; Nr. 10 sliding 180° EFC with box and pneumatic plant for management and control – **Highways:** Thermoforming of 3.000 Mq bright structures for "PUNTO BLU" with 60° and 90° angle – Directional center: 500 Mq of round arch tunnel covering ,diameter 6 mt, with shutter bases for continuous natural ventilation – **ALENIA**: Nr. 250 sliding 180° large dimension EFC with flanged bases – **Sofa factory:** Nr. 110 sliding 180° EFC with monolithic curved double wall bases – **Logistic center PENNY MARKET:** Nr. 54 sliding 180° EFC with monolithic curved bases and box for management and control – **Factory** of **community** furniture : 25 Mq of cantilever roofs thermoformed self-supporting , perimeter to factory – Indoor sports arena: Spherical section dome, with diameter of 20 mt, with ridge skylight that can be opened and movable ladder for maintenance and cleaning.

FORMS OF NATURAL LIGHT

- SMOKE AND HEAT EXHAUST VENTILATORS
- COVERING
- SKYLIGHTS
- CANTILEVER ROOF
- DOMES
- TUNNEL
- PLASTIC MATERIAL THERMOFORMING

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