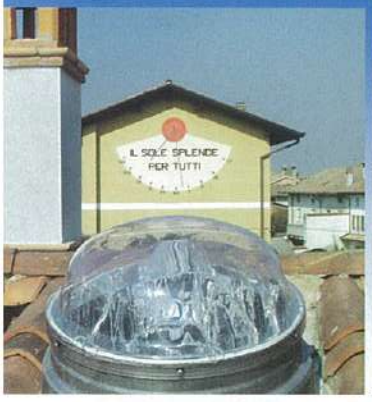
For your house and your activity
Environment protection



NEWS!!
LEDSOLARSPOT®
& Diameter 900 mm

Rifrazione Interattiva Riflessa RIR®

SOLARSPOT®

ISO 9001: 2008 COMPANY

The skylight system that brightens the darkest areas of any buildings with its natural daylight without heating. SOLARSPOT® can be used in houses and factories, commercial and public buildings to brighten, even the enclosed areas.

2003
BATIMAT - Paris
Gold medal
for the innovation

ATEC 6/14 - 2204
Published on 27/10/2014

SINGAPORE GREEN BUILDING PRODUCT
SGBC
VERY GOOD
SGBP 2017-867A
SGBP 2017-867B

TÜVRheinland®
CERTIFIED
Management System
ISO 9001:2008
www.tuv.com
ID 9105080986

Design and manufacturing of tubular daylight systems

SOLARSPOT INTERNATIONAL SRL is an Italian company totally owned by a single family; it is the results of the incorporation (2009) of other two company: Energo Project srl operating from 1981 and Solar Project srl operating since 2003.
From their foundation the main activity of all the companies was totally devoted the research, development and application of renewable energy technologies to existing and new buildings. Progressively more interest of the company was focused on day lighting by tubular skylight that due at the substantial development and performance patented (USA-Europa), improvements achieved, became the strongest asset of the company.
The change of the name in SOLARSPOT INTERNATIONAL SRL simply show the international vocation of the company and the force of the most popular product trademark, nowadays is going to export more than 90% of its production; SOLARSPOT® is the main registered trademark naming all the systems we produce.
Presently the company directly employs 20 people, while through our dealer network or indirectly through associate companies and suppliers we estimate that there are in excess of 1000 people working to promote the growth of Solarspot worldwide and our mission to daylight the world by tubular daylight guidance systems according CIE definition (report TC 3-38 173:2006). The company is associated at UNIVA and CONFAPI as Small Industry Italian Sector and member of KYOTO CLUB.
Recently another patented brand, LEDSOLARSPOT®, has been introduced to the market. This fully hybrid lighting system utilizes the latest LED (elettronicallly dimmable) technology with Solarspot patented daylight innovation to provide a totally integrated lighting solution that delivers TOP energy saving results.

2014
The company is certified ISO 9001:2008 ending a run of reorganization and consolidation of all business processes from production to back-office processes to quality control

2003
the gold medal at the Batimat exhibition in Paris (Innovation Competition) first Italian enterprise to be honored with this award

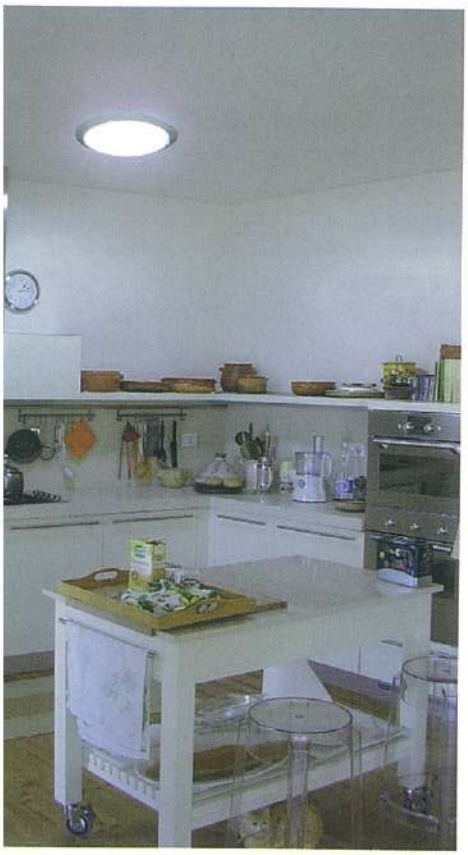
2008
the Gold Medal on the occasion of the Batiweb Awards, as most selected product in the Web.

2010
First Prize for Efficiency on the occasion of the 12th Award Ecohitech Category: Energy Efficiency - Lighting

2011
Certificate of Excellence awarded by Confindustria on the occasion of the Award for Excellence Andrea Pininfarina

2013
The Codega Prize award dedicated to the excellences of Lighting Designers Jury selection "Lighting Designer awards" design with SSL technology

2006-2008-2011-2014
Avis Technique certification
The first release was in 2006, then after 2 renewals Solarspot has been granted of the highest year term (5 years).
This means that the product **SOLARSPOT has been recognized long-term reliable**



Well-being and natural sunlight

As we know, the natural sunlight is an indispensable source of life for the living organisms. It has remarkable psychological effects for the quality of the vision of individuals and for their well-being as well: the feeling of a well-aired place, the perception of the true natural colours without distortions, the regulation of the biological cycles: the abstention of sunlight is the principal cause of some depressing pathologies.

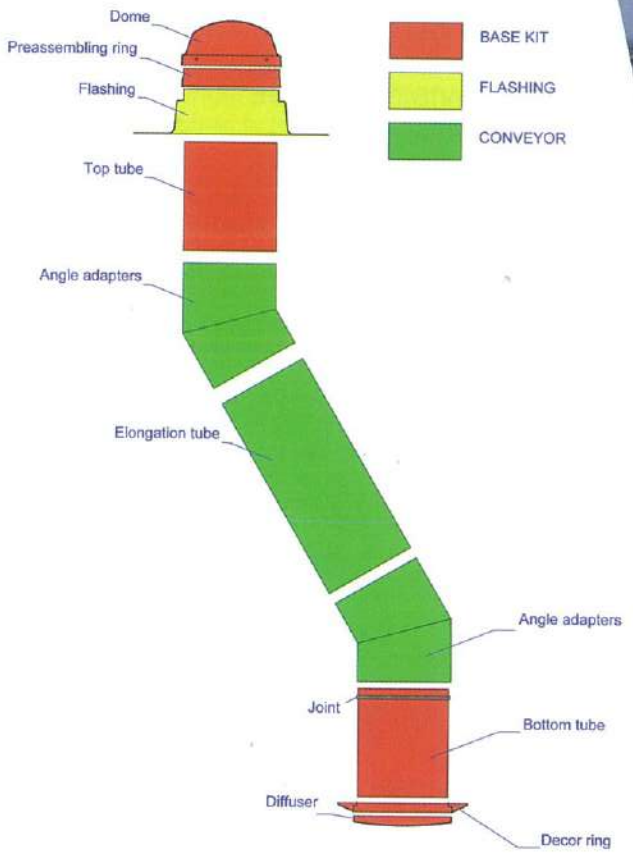
Principle of SOLARSPOT® system

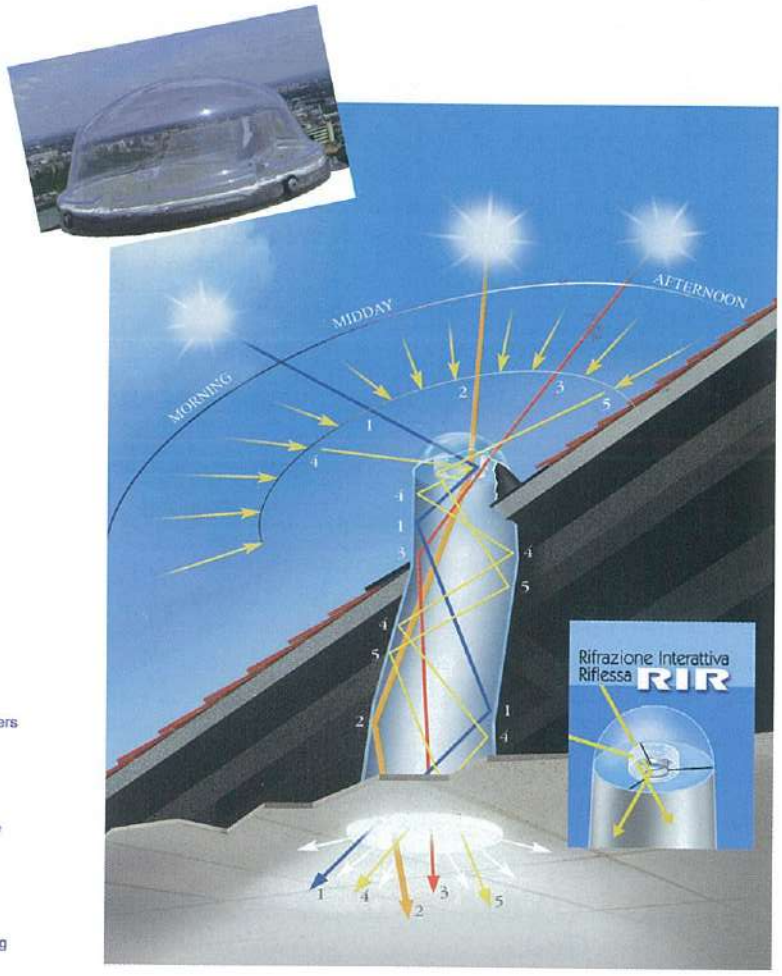
SOLARSPOT® is a lighting system that catches the sunlight in any sky condition (clear or overcast) coming by every direction, thanks to its specific components: the transparent dome in anti-shock acrylic, protected against UV rays, the optical intercepting device RIR® - a true light funnel - that redirects all light beams coming from North and even the lowest on the horizon, inside the transfer cylindrical duct, made of internal and super-reflective surfaces of Vegalux™. Bouncing on the specular surface of the duct, the light beams reach and cross the translucent diffuser (available with many finishings) by creating a highly lighting surface (circular or quadrangular) on the ceiling, capable of lighting even the darkest areas. Diffusing the light from the top of the area, SOLARSPOT® increase the room daylight and make more homogeneous the natural luminance of room walls not so regular when produced only by side and roof windows. Above all brings the benefits of natural light into the enclosed areas that would be still dark without its contribution (world patents). SOLARSPOT® blocks UV rays and doesn't heat the areas with direct heating, usually produced by glass windows and traditional skylights.

Energy saving and environmental protection light up even our future

As soon as we have sufficient and free sunlight, the daily excess of artificial lighting constitute a wasting of precious electrical energy. During summer, enlightening the big areas of workplaces by SOLARSPOT® , you can save the energy to refresh them from the heating produced by electric lamps. SOLARSPOT® contributes to reduce the abuse of the precious fossil fuels and the inevitable environmental pollution which derives from, true natural disasters wasting non-renewable resources which should be protected keeping their availability and use, for the uses "that cannot be renounced" in the many daily current and future activities.

Capturing, redirectioning and conveying of diffused and direct light





System components - certifications

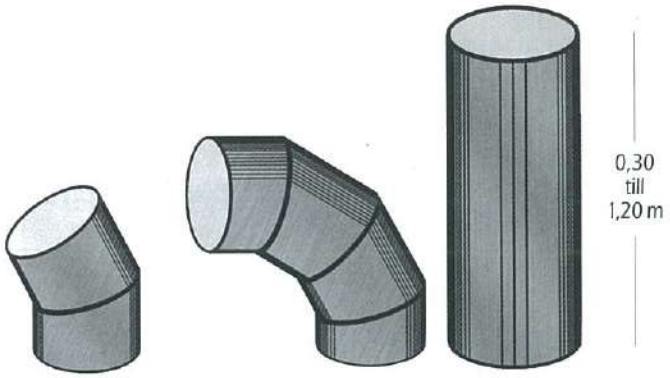
PROTEO

Universal flashing, for any diameter, tile and sloping roof

Metal transition box with glass diffuser: reaction to fire M1

Electrical and manual darkening systems

Angle adapters and elongation tubes



COMPONENTS OF PRE-ASSEMBLED KITS

Capturing devices with RIR, pre-assembling rings for the fastening to the flashings of roof exit, starting tube and room-tube, (unified in lamp kits) with completely assembled diffusers and finishing frame, and accessories in suitable packs. Instructions for a **quick and correct assembly**

CCFAT
CERTIFICATES AND EXPERIMENTAL RESULTS FOR AVIS TECHNIQUE N°6/14-2204 PUBLISHED ON 27-10-2014

1 - Durability test of 3000h en WOM CI65 (Atlas, BST = 60°C) on the brown watertight sheet associated with a 250mm SOLARSPOT® system. Test report CSTB n° BV05-491 dated 26th July 2005.

2 - AEV test on pre-assembled kit of the 530mm diameter SOLARSPOT® system. Test report CSTB n° BV05-441 dated 7th July 2005.

3 - Choc test on the dome of the 250mm diameter SOLARSPOT® system. Test report CSTB n° BV05-440 dated 7th July 2005.

4a - Fire-reaction test on PROTEO® - Formula 5682 brown watertight sheet of fireproof synthetic rubber.
PV N° RA05-0525 dated 8th December 2005.

4b - Renewal of the fire-reaction test on PROTEO® - Formula 5682 brown watertight sheet of fireproof synthetic rubber. PV N° RA11-0231 (05.10.2011).

5 - Calculation of thermal dispersion through the light ducts. Thermal study report. CSTB - Affair 05-027 DER/HTO 2005-140-FL/LS dated 1st August 2005.

6 - Characterization of the luminous performance on pre-assembled kit of the 250 mm, 375mm, 530mm e 650mm diameter SOLARSPOT® systems. Luminous balance data present at the end of the technical dossier for the Avis Technique. Test report CSTB n° EN-ECL 05.02C dated 28th June 2005.

7 - Optical characterization in transmission and reflection of the elements of the SOLARSPOT® system.
Test reports n° CPM/05-0047 dated 16th September 2005.

8 - Identification by IRTF spectroscopy of organic materials that intervene in the manufacture of elements
of the pre-assembled kits of the SOLARSPOT® system. Test report n° BV05-575 dated 27th July 2005.

9 - Durability test of 4000 h (BST = 65°C with cycle for plastic materials) en WOM c 15000 (ATLAS) of the dome in PMMA associated with a SOLARSPOT® system. Test report n° CPM 05-0009 (September - October 2005).

10 - Operative test on a preliminary model of a pre-assembled kit 250 mm SOLARSPOT® system for a covering plain terracotta roof tiles and PROTEO® universal outlet from the roof CSTB (July - August 2005).

11 - Operative test on a preliminary model of a pre-assembled kit 375 mm SOLARSPOT® system for a covering of double interlocking roof tiles with a weak relief to the extrados and PROTEO® universal outlet from the roof - CSTB (July - August 2005).

12 - Operative test on a preliminary model of a pre-assembled kit 530 mm lamppost type SOLARSPOT® system for a covering of double interlocking roof tiles with a strong relief to the extrados and PROTEO® universal outlet from the roof - CSTB (July - August 2005).

13 - Characterization of the luminous performance of the new diffusers' transition boxes.
Test report CSTB n° EN-ECL 08.08.C (June 2008).

14 - Fire-reaction test on VULCANO-V33S, rolled glass Type 33.1 assembled with a sheet of PVB.
PV N° RA08-0242 dated 7th July 2008.

15 - Characterization of the luminous performance. Complementary measures.
Test report CSTB n° EN-ECL 09.02.C (January 2009).

16 - Fire-reaction test on VULCANO DQL, flat plate in polycarbonate for light duct (translucent circular Fresnel lens). PV N° RA09-0069 dated 4th March 2009.

17 - Fire-reaction test on LEXAN EXELL D FR, rigid plate in co-extruded transparent polycarbonate by UV treatment. PV SNPE N° 13145-07 dated 21st February 2007.

18 - Fire-reaction test on LEXAN 9030FR, plate in fireproof white opal polycarbonate.
PV LNE N° G020154 - CEMATE /1 dated 15th February 2006.

19 - Audit report n° 2031521/1A: production site of "SOLARSPOT®" systems. Bureau Veritas (17.07.2009).

OTHER CERTIFICATIONS
SP Technical Research Institute of Sweden N. 0402-CPD-P902844A (07.10.2009), fire-reaction test on Makrolon UV clear 2099 and Makrolon UV white 2150, respectively polycarbonate plates respectively uncolored and opal white.

For architects and building designers needing to provide daylight solutions with guaranteed minimum light levels

Solarspot® (Avis technique 6/14-2204), the world's most efficient tubular daylight system (according to CIE TC3-38 Report 173-2006 and other official comparison), is now integrated with the most advanced dimmable LED technology to provide a total lighting solution: Ledsolarspot® that maximizes energy efficiency whilst providing essential daylight for human well-being. (USA and European Patent)
Each Solarspot ceiling unit is fitted with dimmable, interactive banks of LED lamps, either circular or square, that are controlled by light sensing panels that are programmed to deliver a minimum level of light to the room. Throughout the day, the panel monitors the ambient light levels and if the daylight levels drop below a certain point, or it just gets dark as the sun goes down, the dimmable LED units are activated to replace the natural light to maintain the pre-set levels. Conversely, as the external daylight levels increase, the LED lamps are dimed, or even turned off completely.
This logical, yet revolutionary, solution provides maximises energy savings and green credentials whilst producing superb benefits for the buildings occupants.

Benefits

Energy saving potential

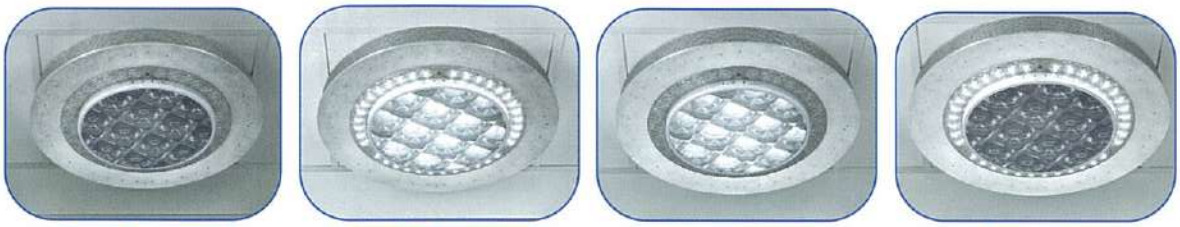
For buildings that are occupied predominantly during daylight hours, the energy saved from only using electric lighting when the daylight levels are insufficient to provide the required levels could be as much as 85%. For building occupied for longer periods of the day, the savings with be commensurate with the hours of occupation. The advantage of the system is that it removes the human intervention factor – people arriving in the dark and then leaving the lights on all day, or just turning on the electric lights by force of habit.

Improved comfort

Through constant monitoring and adjustment of the light within the space, the building designer or owner can preset the minimum levels of light appropriate for the space in the knowledge that these will be consistent and will not be interfered with.

Reduced maintenance costs

By controlling and regulating the use of the electric light systems the working life of luminaires can be greatly increased. This not only reduces the cost of replacing individual lamps or luminaires but the often greater cost of access and labour. By considerably reducing the demand on the luminaires life expectancy can be greatly increased.



SYSTEM OFF (NIGHT) | LEDSOLARSPOT (OVERCAST SKY) | SOLARSPOT (SUNNY DAY) | ONLY LED (NIGHT)

LEDSOLARSPOT

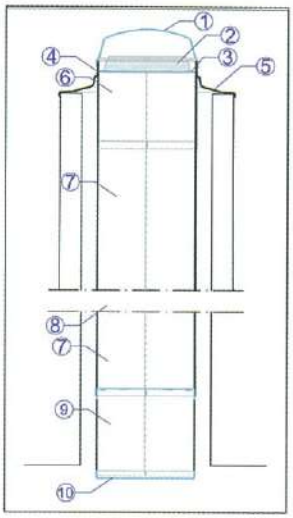
TECHNICAL SPECIFICATION

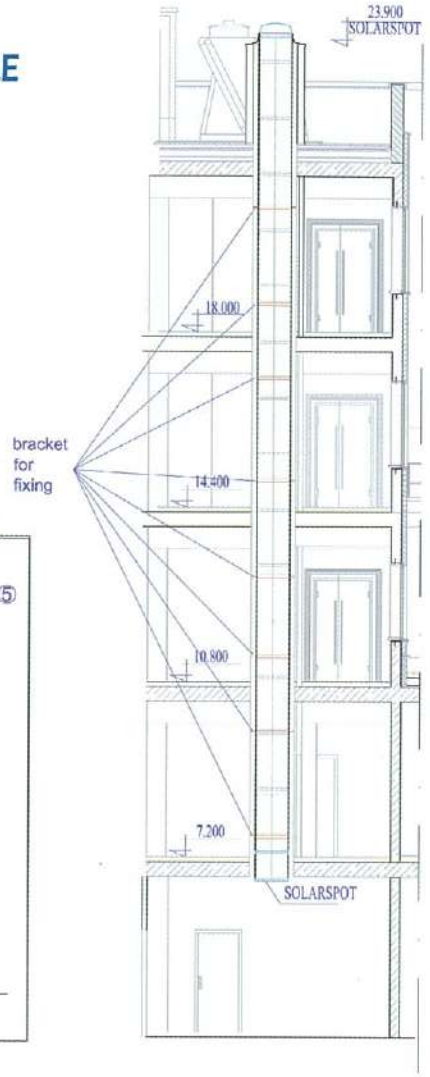
Ø	D-25	D-38	D-53	D-65	D-90
CHARACTERISTICS	The smallest system, designed for smaller areas of domestic and commercial buildings, it fits pratically to every building, including attics (mansards) and below rooms, also with false ceiling. Effective diameter: 255 mm Max length suggested: 7 m Lighting area: 6-8 m² Square and round diffusers style available. Available flashings suitable for tile roofs or with metallic sheets, coplanar or zenithal on pitched roofs.	Mid-sized system, designed for larger domestic installations and smaller areas of commercial buildings. It fits in with the most diffused building construction technics, without needing structural alterations. Perfect also for attics (mansards) and below rooms. Effective diameter: 380 mm Max length suggested: 11 m Lighting area: 13-18 m² Square and round diffusers available. Available flashings suitable for tile roofs or with metallic sheets, coplanar or zenithal on pitched roofs.	Ideal for lighting medium sized spaces, fit perfectly in a false ceiling made with modular panels 60 x 60, as well as with plasterboard finishing. It can be used for lighting larger offices, classrooms or commercial spaces. Effective diameter: 550 mm Max length suggested: 15 m Lighting area: 25-35 m² Square and round diffusers available. Available flashings and supports for every type of industrial roofing.	This unit has been designed to be used to light larger spaces with high ceiling levels. It can be used as a simple lamp unit for lighting open-ceilinged industrial spaces, or it can be supplied with adjustable angles and extensions, allowing for daylight to be piped into the heart of a building. Effective diameter: 675 mm Max length suggested: 20 m Lighting area: 35-50 m² Square and round diffusers available. Available flashings and supports for every type of industrial roofing.	The largest Solarspot® system in the range, ideally suited for lighting large open spaces with high ceilings. Effective diameter: 910 mm Max length suggested: 30 m Lighting area: 70-100 m² Available only round diffusers and also flashings for every type of industrial roofing.
IDEAL FOR	- Bathrooms - En suites - Corridors - Landings - Hallways - Attics	- Large bathrooms - Kitchens - Corridors and entrance halls - Living rooms - Smaller offices - Attics	- Offices - Workshops - Smaller manufacturing facilities - Wider corridors - Classrooms	- Manufacturing facilities - Warehouses - Retail sheds - Entrance galleries - Sports arenas and centres - Logistics and distribution facilities	- Manufacturing facilities - Warehouses - Retail sheds - Exhibition spaces - Sports arenas and centres - Logistics and distribution facilities
LAYOUT					
ROUND					
A	6 LED - 2000 lm - 3000°K Max suggested: W 25 Power supply: LPF-40D-36	12 LED - 4400 lm - 3000°K Max suggested: W 55 Power supply: LPF-60D-36	20 LED - 8000 lm - 3000°K Max suggested: W 80 Power supply: LPF-90D-36	30 LED - 12000 lm - 3000°K Max suggested: W 120 Power supply: HLG-150H-36B	40 LED - 16000 lm - 3000°K Max suggested: W 160 Power supply: HLG-240H-36B
A2	6 LED - 2950 lm - 4000°K Max suggested: W 25 Power supply: LPF-40D-36	12 LED - 5950 lm - 4000°K Max suggested: W 46 Power supply: LPF-60D-36	20 LED - 9900 lm - 4000°K Max suggested: W 80 Power supply: LPF-90D-36	30 LED - 14850 lm - 4000°K Max suggested: W 120 Power supply: HLG-150H-36B	40 LED - 19800 lm - 4000°K Max suggested: W 160 Power supply: HLG-240H-36B
B	6 LED - 4450 lm - 4000°K Max suggested: W 27 Power supply: LPF-40D-36	12 LED - 8250 lm - 4000°K Max suggested: W 50 Power supply: LPF-60D-36	20 LED - 14800 lm - 4000°K Max suggested: W 95 Power supply: HLG-120H-36B	20 LED - 14800 lm - 4000°K Max suggested: W 95 Power supply: HLG-120H-36B	30 LED - 22250 lm - 4000°K Max suggested: W 142 Power supply: HLG-150H-36B
SQUARE / ROUND					
A		20 LED - 8000 lm - 3000°K Max suggested: W 80 Power supply: LPF-90D-36	24 LED - 10000 lm - 3000°K Max suggested: W 100 Power supply: HLG-120H-36B		
A2		20 LED - 9900 lm - 4000°K Max suggested: W 80 Power supply: LPF-90D-36	24 LED - 11900 lm - 4000°K Max suggested: W 96 Power supply: HLG-120H-36B		
B		20 LED - 14800 lm - 4000°K Max suggested: W 95 Power supply: HLG-120H-36B	24 LED - 17800 lm - 4000°K Max suggested: W 114 Power supply: HLG-120H-36B	30 LED - 22250 lm - 4000°K Max suggested: W 142 Power supply: HLG-150H-36B	40 LED - 35700 lm - 4000°K Max suggested: W 225 Power supply: HLG-240H-36B

GREAT SOLID EFFICIENT

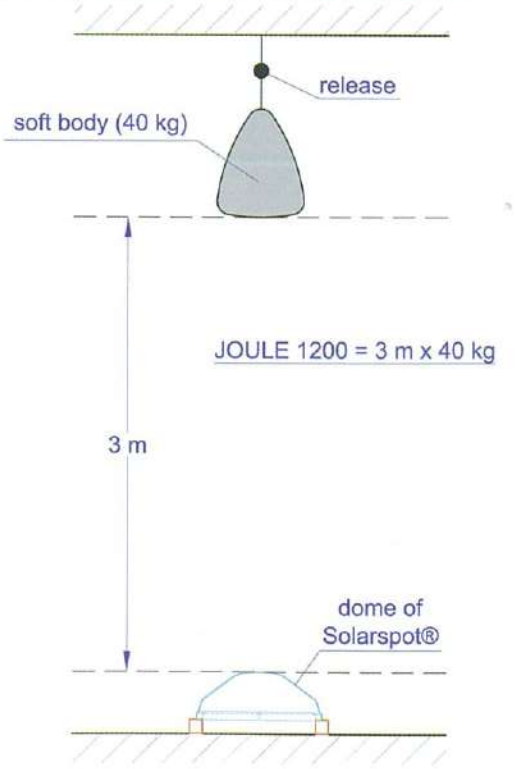
Almost 20m. It resist to 1200Joule. It restitutes more than 55% of the light available with overcast sky

DESIGN EXAMPLE





ANTICHOC TEST 1200 JOULE

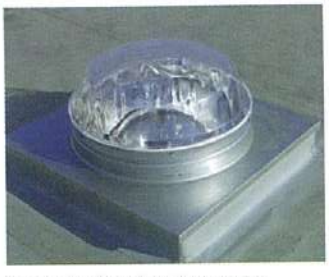


Installations in industrial and commercial buildings

EUROSPED, Italy, 4600 sq.m.
lighted by Solar-work lamp kit:
N. 105 D650 - N. 6 D530 - N. 5 D375
(2001-2002)

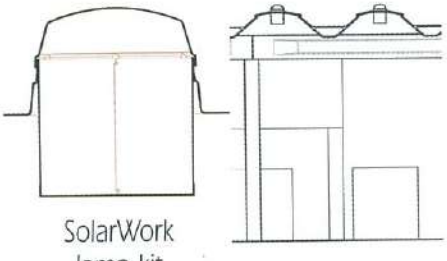
Giannino Distribuzione spa, Italy
18.000 sq.m. lighted by Solar-work lamp kit
N. 580 D650
(2006)

Square and isolated lifting bearing



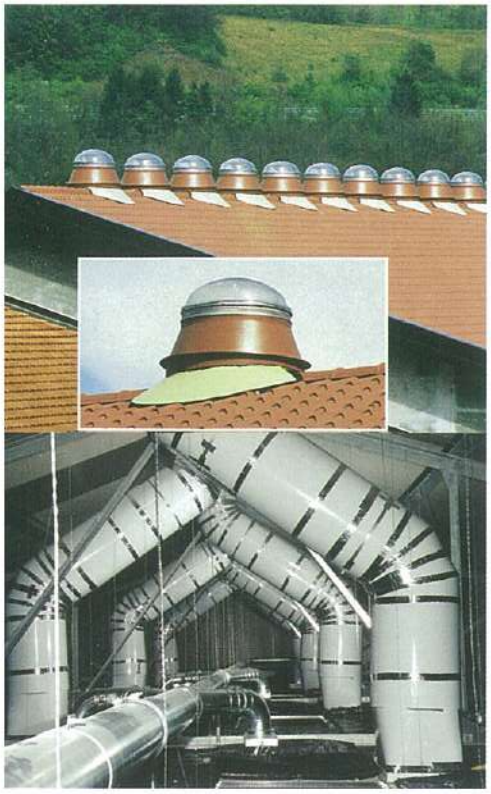
Square flashing installed on the bearing (Tesco - 2009)

Bearing and square-based flashing with cylindrical flue and transom flashing (Massalengo school 2009)

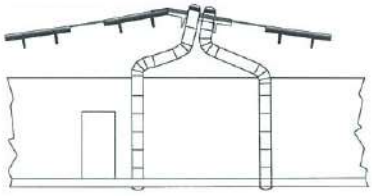


SolarWork lamp kit

Installation examples



N. 14 SOLARSPOT 650,
of very complex configuration,
made of 22 tubular sections,
light 560 sqm of the enlarged
workshop FRE.TOR
in Puos d'Alpago, Belluno (Italy).
(2001)



Hungary - Tesco Supermarket
Surface : 3200 mq
n° 120 SOLARSPOT D900 L= 60 cm

Various Installation examples

Round and square diffusers

round in pearled acrylic with ceiling ring, available for D-250-375-530

(25DR10N+25-1DTPN) (38DR10N+38-1DTPN) (53DR10N+53-1DTPN)

round in prismatic acrylic with ceiling ring, available for D-250-375-530.

(25DR10N+25DTPN) (38DR10N+38DTPN) (53DR10N+53DTPN)

round vision in transparent or pearled acrylic, or in polycarbonate, with ceiling ring, available for D-250-375-530.

(25DR10N+25DTVN) (38DR10N+38DTVN) (25DR12NP+25DTNPOV)(38DR12NP+38DTNPOV)

lamp VISION Fleur in pearled or prismatic acrylic, available for D530 e 650

53-1DCNACPV 65-1DCNACPV
53DCNACPV 65DCNACPV 90DCNACPV

round VISION in polycarbonate with ceiling ring in polycarbonate available for D530

(53DR12NP+53DTNPOV)

lamp VISION Fleur in transparent acrylic available for D530 e 650

53DCNPOV 65DCNPOV

Transition box with frame and square diffuser, radial Fresnel lens (available for D250, 375, 530 e 650)

38RT40R+38DQL3 25RT30R+25DQL30
38RT66R+65DQL59 53RT66R+65DQL59
65RT66R+65DQL59

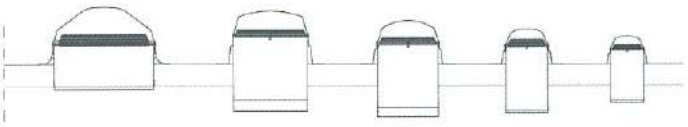
Lamp, radial Fresnel lens with metal finishing frame, lacquered grey or white (available for D250, 375, 530, 650, 900)

65DCNLEF + 65GEDAL15 + 65GISAL15

Transition box RT60R without frame and with square diffuser, radial Fresnel lens available for D375-530

38RT60R + 53DQL57 53RT60R+53DQL57

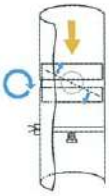
SOLARSPOT



(Patented in Europa e USA)

With electrical accessories

Solar-Dimmer™



Controls of the amount of light by the ease of an electric switch; negligible lost of light when Dimmer open (<6%); available for all standard diameters

Available for standard diameters
250-375-530-650

LEDSOLARSPOT®

For architects and building designers needing to provide daylight solutions with guaranteed minimum light levels

Solar-Fan™

Areas ventilation

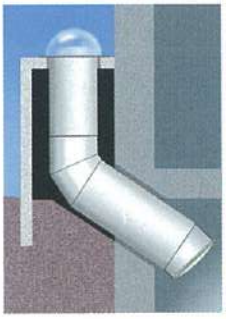
Solar-ATTIC™

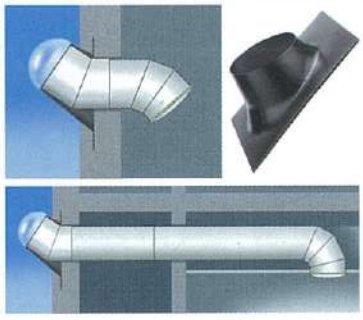
Ideal to enlighten garrets and lofts

SOLAR-WALL™

When areas can be reached only from ground and wall. Solarspot® can convey light horizontally and...uphill thanks to angle adapters and tubes made of

VEGALUX® R = 99,5%





For the large surfaces of new buildings and restyled ones

SOLAR-WORK™

traditional or lamp, provides natural light, but not heat

Standard

Lamp kit

3 November 2009, Solar Project Srl and Energo Project Srl merged in SOLARSPOT INTERNATIONAL SRL.

E 05/2017

Producer
ISO 9001: 2008 COMPANY

Solarspot International S.r.l.

Solarspot International S.r.l.
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