

SOUND SOLAR PANEL

Our goal: solving the noise problem without any cost

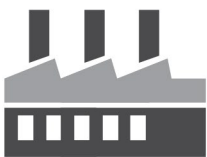
POSSIBLE APPLICATIONS



Along transport routes with high noise pollution, such as roads, motorways, railways;



Near sensitive sites, such as schools, hospitals, parks, residential areas;



On industrial sites, to reduce the noise caused by production and manufacturing activities.



BENEFITS OF OUR PROPOSAL



Solve the noise problem



Prevent property devaluation, which is otherwise estimated to be at least 20%



Comply with legal requirements



Guarantee an important economic return



Certified at the top level of sound absorption and energy production



Designed to minimize environmental impact



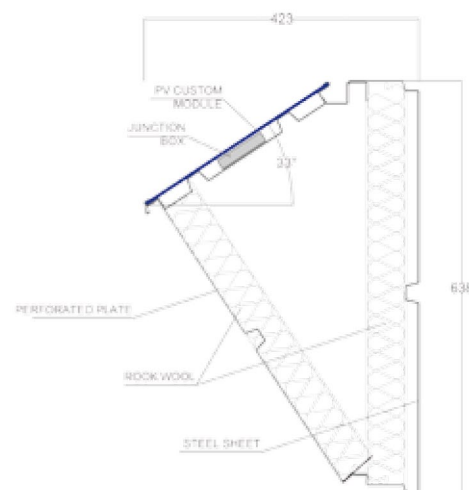
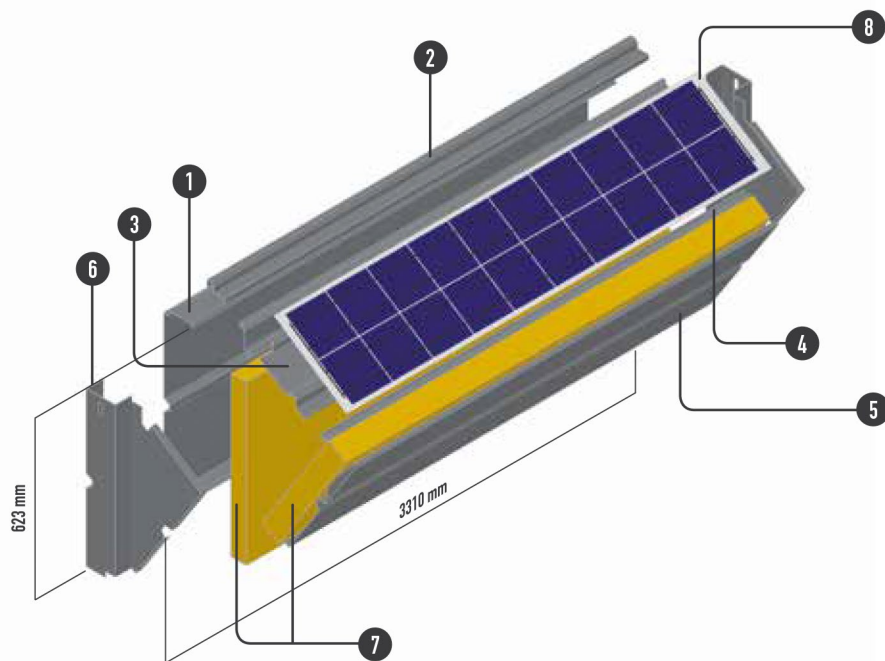
Panels available in several colors and in combination with transparent sheets



SSP (Sound Solar Panel)



SOUND-ABSORBING PANEL INTEGRATED WITH PHOTOVOLTAIC MODULE



GENERAL DESCRIPTION

1. Solid, coated galvanized-steel sheet, nominal thickness 0,8 mm
2. Upper connection element, shaped male-female for laplinking
3. PV module supporting element, shaped for ventilation and cables duct
4. PV module fixing element, for maintenance and substitution
5. Perforated, coated galvanized-steel sheet, nominal thickness 0,8 mm
6. Lateral cover with EPDM soundproofing and vibration-damping bulb seal
7. Mineral wool blankets, nominal density 70 kg/m³
8. Photovoltaic module

PROPERTIES

SOUND-ABSORPTION	A4 (UNI EN 1793)
SOUND-PROOFING	B3 (UNI EN 1793)
WIND LOAD	2,00 kN/mq (UNI EN 1794)
STONE IMPACT	OK (UNI EN 1794)
PV MODULE POWER (P _{max})	170-190 Wp
PV TEMP. COEFFICIENT FV (P _{max})	- 0,46%/°C

STEEL

S235J0 according to UNI EN 10025 thickness 0,8 mm. Galvanized and painted with polyester-thermosetting powders.

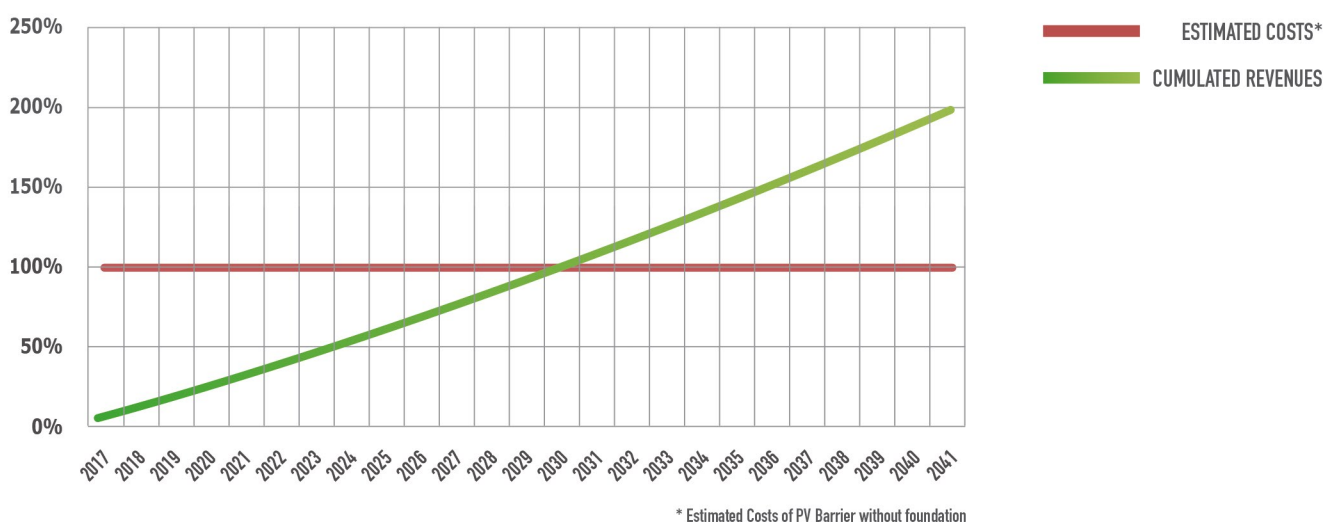


DESCRIPTION	U.M.	VALUE
Lenght Barrier	meters	300,00
Concrete curb	meters	0,40
DiffraCTOR	input	YES
Tilt Barrier	degrees	0
Vertical Barrier Height	meters	3,52
Total tilt barrier height with diffractor	meters	3,92
Surface Barrier reference (Lenght x Height top included)	mq.	1.174,50
Nominal Power	kWp	107,36
PVWatts Calculator – OTTAWA	kWh/kWp/year	1.362
First year energy	kWh	146.224,32
Loss of power in ten years	%	6%
Energy sale/ Net metering / Energy direct consumption	CAD \$ / kWh	0,30
Return from renewables in the first year	CAD \$	43.867,30
Return from renewables after 20 years	CAD \$	1.051.204,49
Return from renewables after 25 years	CAD \$	1.379.052,20
Loss in CO2 releasing into the atmosphere	kg.	77.499



PHOTOVOLTAIC BARRIER ANNUAL AND TOTAL REVENUES

EXAMPLE CUMULATED PAYBACK – NOISE PV BARRIER 25 YEARS



CERTIFICATIONS

