



INCOPERFIL®

INGENIERÍA Y CONSTRUCCIÓN DEL PERFIL

Curved Self-Supporting Roofing

www.incoperfil.com

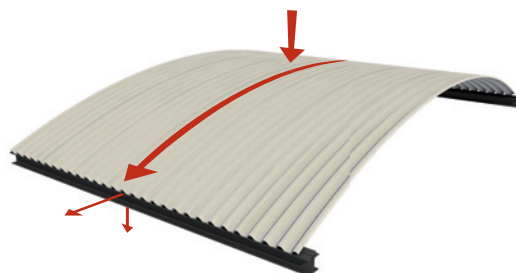
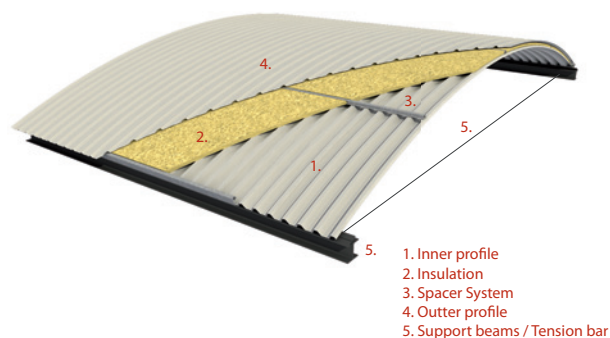
CURVED ROOFING

SYSTEM DESCRIPTION

Ingeniería y Construcción del Perfil S.A. has developed the **Self-Supporting Curved Roofing system**, where the curved profile is able to **support the loads** and transmit them to the supports without intermediate structure.

Self-Supporting Curved System allows covering a **wide span (up to 13 meters)** with only a single piece.

This system is broad in scope: sports facilities, agricultural buildings, industrial premises, warehouses, parking and logistics Centre.



Inner profile. Free-standing covering element, any of the following products could be used- INCO 44.4, INCO 44.6, INCO 70.4-.

Insulation. Lay out in a continuous length over the roof, usually consisting of rock wool felt.

Spacer System. Metal framing consist of omega shaped profile, to form a double skin roof.

Outer profile*. Upper corrugated sheet which may or may not be free-standing.
**In case of using skylights, please contact our Technical-Commercial department.*

Support beams and tension bar*. Structural elements that receive the reactions generated by the roofing. **Horizontal tension bars for spans larger than 7 m.*

COMPONENTS

ADVANTAGES

Reduced weight of the structure in comparison with the traditional system.

Execution Speed, rapid assembly as it is a prefabricated system.

Improving Aesthetics, innovative image far away from industrial typologies.

High Durability, guarantee up to 25 years in the cover material.

Efficient transport, parts dimensions allow the use of a traditional transport.

Versatility, allows the use of metal or concrete structure.



Request a **CALCULATION REPORT** for your roofing and structure design.
Scan this QR.



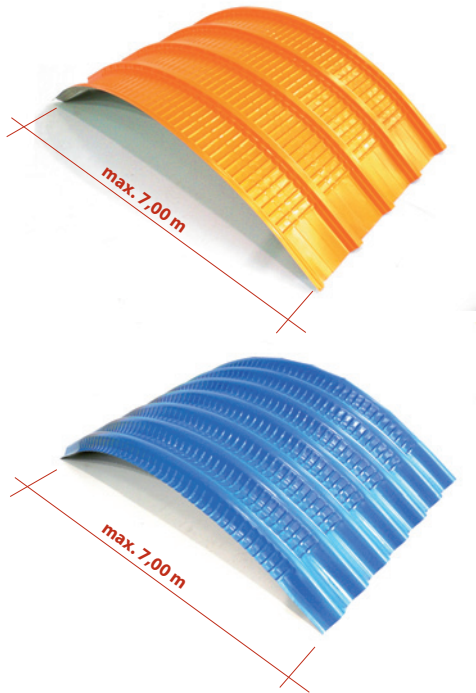
In collaboration with the **Valencia Polytechnic University** Department of Continuum Mechanics and Structural Theory of the School of Industrial Engineering, Ingeniería y Construcción del Perfil S.A., has calculated the effective characteristics of the INCO 44.4, INCO 44.6, INCO 70.4 Curved profiles.

Numerous tests have been carried out on several spans and thicknesses, based on the EUROCODE-3, to validate theoretical results.

Ingeniería y Construcción del Perfil S.A. technical team will provide you a personalized **calculation report** will and further guidance on the structure modelling and calculation.

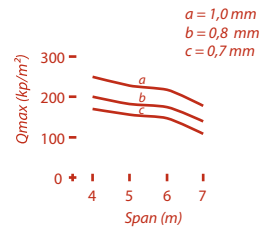
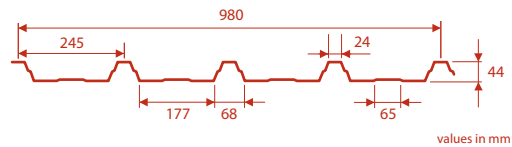
CALCULATIONS AND TESTS

INCO 44.4 / 44.6 Curved



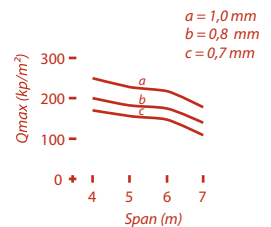
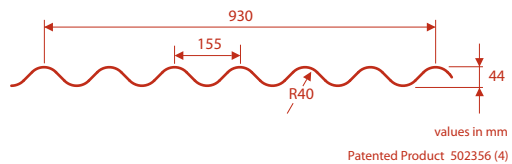
INCO 44.4 Curved

Self-supporting curved roof. Spans up to 7 meters.
Base Material Quality S250GD / Galvanized / Pre-lacquered / PVDF/HDX, etc.
Perforated for Acoustic Applications, Arched Skylights, etc.
Thickness 0.6 - 1.0 mm.



INCO 44.6 Curved

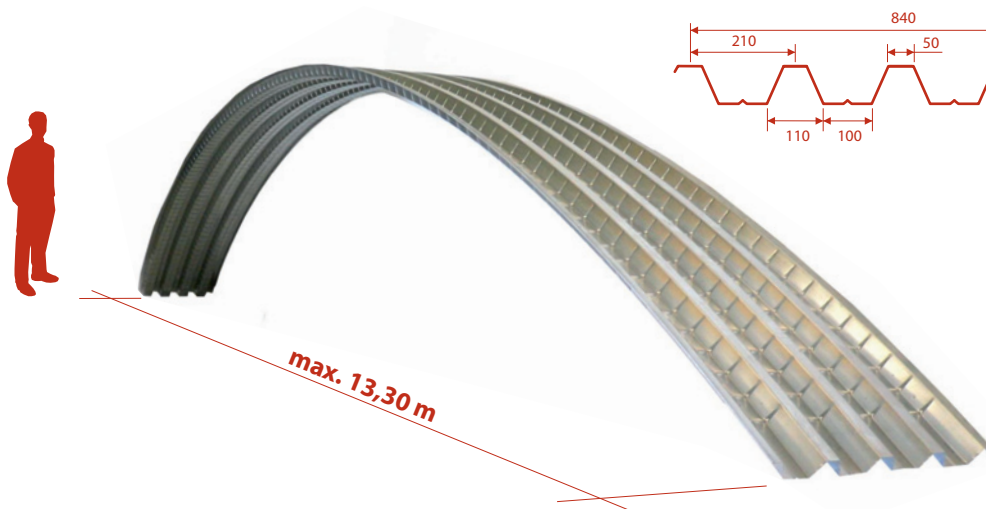
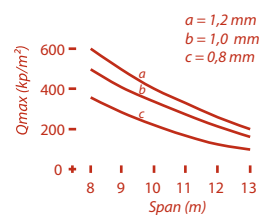
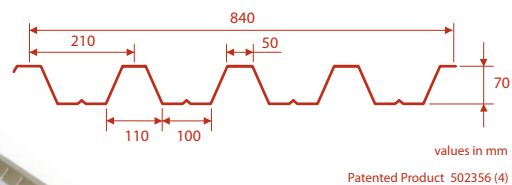
Self-supporting curved roof. Spans up to 7 meters.
Base Material Quality S250GD / Galvanized / Pre-lacquered / PVDF/HDX, etc.
Perforated for Acoustic Applications, Arched Skylights, etc.
Thickness 0.6 - 1.0 mm.



INCO 70.4 Curved

INCO 70.4 Curved

Self-supporting curved roof. Spans up to 13,30 meters.
Base Material Quality S250GD / Galvanized / Pre-lacquered / PVDF/HDX, etc.
Perforated for Acoustic Applications, Arched Skylights, etc.
Thickness 0.6 - 1.0 mm.

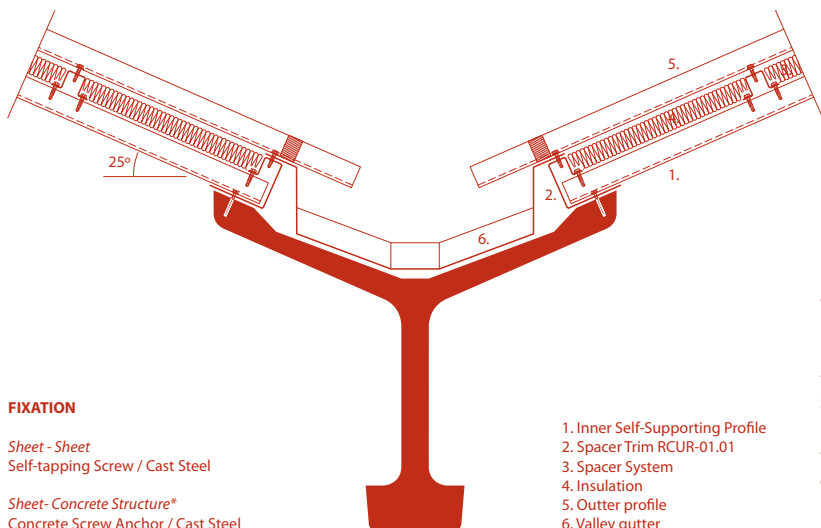


INSTALLATION

ASSEMBLY

INCO 44.4 / 44.6 Curved

Intermediate Beam



FIXATION

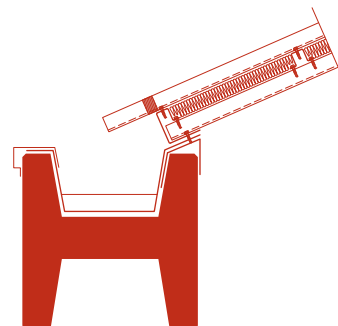
Sheet - Sheet
Self-tapping Screw / Cast Steel

Sheet - Concrete Structure*
Concrete Screw Anchor / Cast Steel

*Please contact with the structure and fixation manufacturer.

1. Inner Self-Supporting Profile
2. Spacer Trim RCUR-01.01
3. Spacer System
4. Insulation
5. Outer profile
6. Valley gutter

End Beam



- Place the inner self-supporting profile with the spacer trim RCUR-01.01 simultaneously.

- Install the spacer system (omega shaped profiles) over the inner self-supporting profile.

- Place the insulation, usually consisting of rock wool felt, to form a double skin roof.

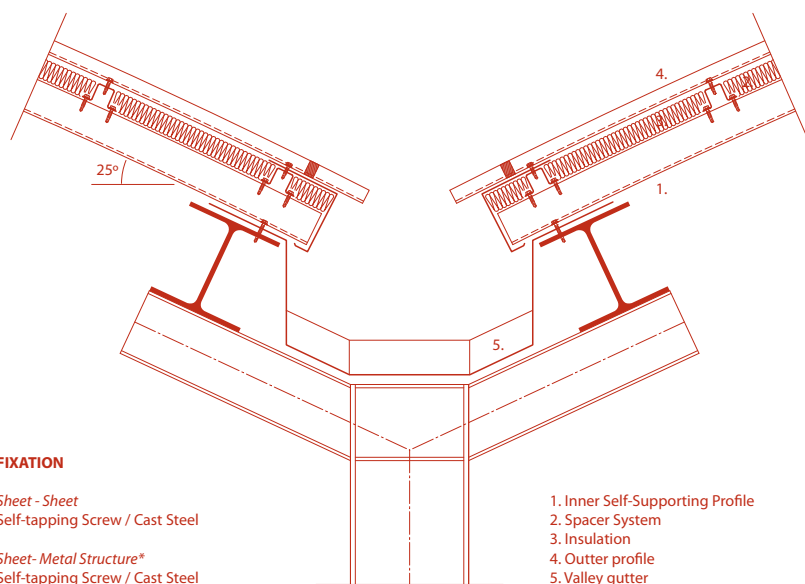
- Fixation of the outer profile on the spacer system.

The Self-Supporting Profiles could be installed in metal and concrete structures.

ASSEMBLY

INCO 70.4 Curved

Intermediate Beam



FIXATION

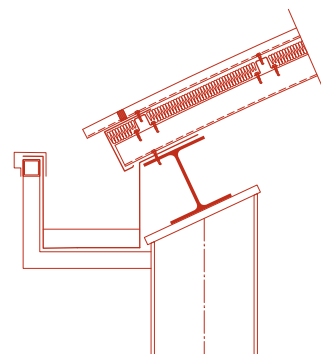
Sheet - Sheet
Self-tapping Screw / Cast Steel

Sheet - Metal Structure*
Self-tapping Screw / Cast Steel

*Please contact with the structure and fixation manufacturer.

1. Inner Self-Supporting Profile
2. Spacer System
3. Insulation
4. Outer profile
5. Valley gutter

End Beam



- Place the inner self-supporting profile and its fixation to the structure.

- Install the spacer system over the inner self-supporting profile.

- Place the insulation, usually consisting of rock wool felt, to form a double skin roof.

- Fixation of the outer profile on the spacer system.

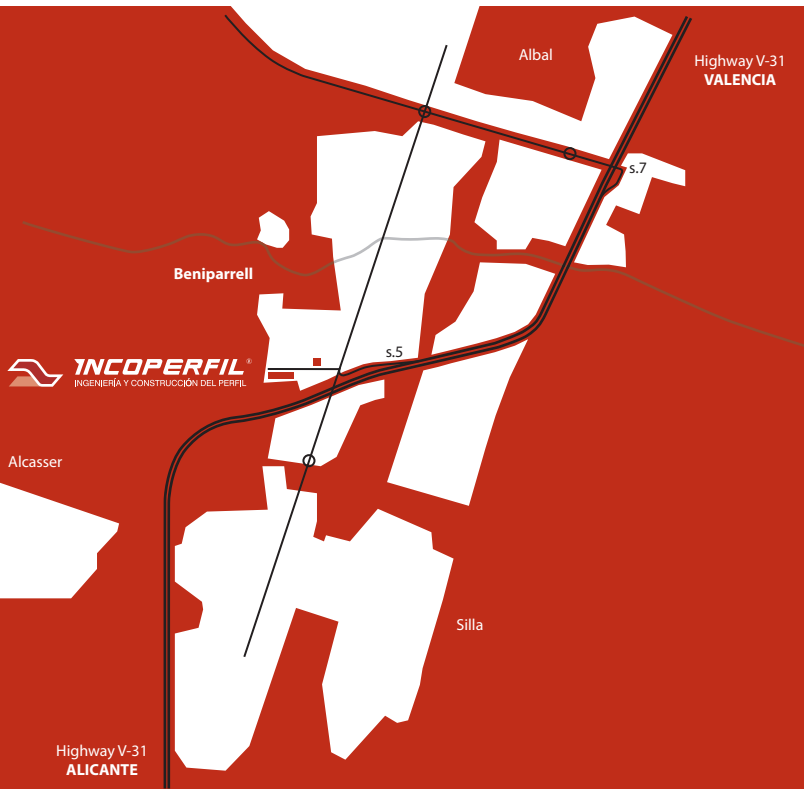
The Self-Supporting Profiles could be installed in metal and concrete structures.

INCO 44.4 / 44.6 Curved



INCO 70.4 Curved





ISO 9001

BUREAU VERITAS
Certification



UNIÓN EUROPEA
FONDO EUROPEO DE
DESARROLLO REGIONAL
UNA MANERA DE HACER EUROPA



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