



Ondulit Italiana

# ONDULIT COVERIB MORE STRENGTH TO YOUR ROOF

60 YEARS EXPERIENCE ALL OVER THE WORLD  
25 YEARS PRESENCE IN ISRAEL

INSULATING  
MULTILAYER  
PROTECTED STEEL  
ROOFING



מכון התקני  
הישראלי

## STEEL MULTILAYER PROTECTION HOW WE BUILD EXCELLENCE



COMPLYING WITH  
ISRAEL FIRE STANDARDS  
SI755

**ALUMINIUM FOIL**  
It wraps and protects the anticorrosive layers, preserving their plasticity over time and, in the natural finish, it reflects the solar thermal radiation.

**PLASTIC-BITUMINOUS COMPOUND**  
It shields the steel completely, protecting it from oxidation and making it resistant to corrosion. Moreover it avoids the vibration of the steel sheet, preventing the drumming effect under rain or hail.

**GALVANIZED STEEL**  
It guarantees infrangibility and the mechanical properties of the panel. It also assures reduced thermal expansion.

### מסקנות בדיקה חלקית

הדוגמה הנ"ל שבבדיקה סורגה לפי אמות המידה בת"י 755 (2010) כדלהלן:  
דרגת התלקחות - V (חמש)  
דרגת צפיפות עשן - 3 (שלוש)  
דרגת עליות צורה והספוטוף - 3 (שלוש)  
- הערות -  
כינוי הדגם ושם היצרן שצוייבו לעיל נכתבו בהתאם לתצורת המזמין הבדיקה.  
פרוט מצוי בדפים הבאים של מסמך זה.



\* ITC CERTIFICATION.

# PROFILES

## PROPERTIES AND PERFORMANCES

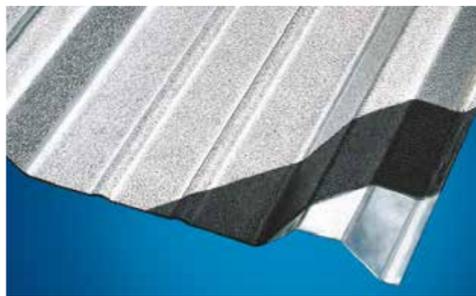
The original Ondulit multilayer coating technology of steel is based on the synergistic protective effect known as "duplex", characterizing those systems in which durability is increased by reciprocal protection of the individual layers. Thanks to an exclusive manufacturing process in continuous, all the different components of the multilayer system are integrated to form a compact material with a complete protection, of great efficacy and durability.



length	custom tailored
nominal width	900 mm
cover width	785 mm
average total thickness	2.4 mm
steel thickness	0.60 - 0.80 mm
mass/m <sup>2</sup>	8.000 kg with steel 0.60 9.400 kg with steel 0.80
tolerances	on length: + 20, - 5 mm on covering width: + / - 5 mm on thickness + / - 0,2 mm

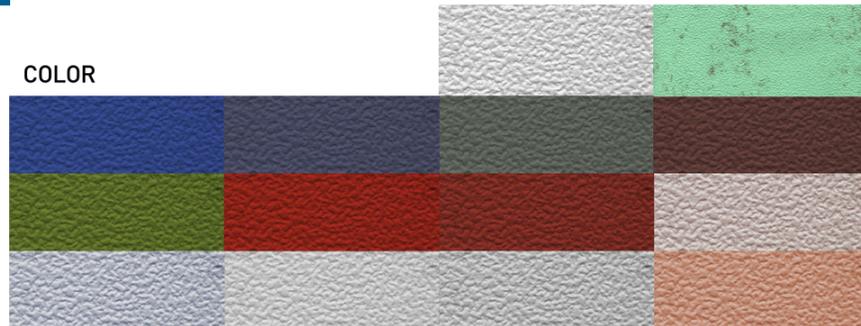


length	custom tailored
nominal width	850 mm
cover width	773 mm
average total thickness	2.4 mm
steel thickness	0.60 - 0.80 mm
mass/m <sup>2</sup>	8.600 kg with steel 0.60 10.000 kg with steel 0.80
tolerances	on length: + 20, - 5 mm on covering width: + / - 5 mm on thickness + / - 0,2 mm



length	custom tailored for minimum lot of 2500 sq. m.
nominal width	1000 mm
cover width	900mm
average total thickness	2.4 mm
steel thickness	0.60 mm
mass/m <sup>2</sup>	7.5 kg
tolerances	on length + 20, - 5 mm on covering width + / - 5 mm on thickness + / - 0,2 mm

## COLOR



## THE MULTILAYER PROTECTED STEEL ROOFING

THE  
PERFORMANCES  
OF A 25 YEARS  
EXPERIENCE IN  
ISRAEL

### A QUIET METAL ROOF

The thick plastic-bituminous compound on the both sides of the steel core absorbs the impact of the rain. the sheet is therefore aphonous.

Material	Noise Level (dB(A))
Covered	~100
Fiber-reinforced	~150
Steel	~250
Aluminum	~350
Aluminum + foil	~400
Composite panel	~150
Steel sandwich panel	~200
Ondulit system	~100

### A HIGHLY CORROSION-RESISTANT METAL ROOF

An incredible resistance to corrosion, even in the most aggressive atmospheres.

Material	Hours
Modified polyester	~500
Silicone-modified polyester	~750
Fluoro-carbon	~1000
Epoxy + silicone-polyester	~1500
Ondulit system	~2800

### A HEAT REFLECTIVE ENERGY SAVING METAL ROOF

Reflective power of 90% with natural aluminium finishing that permits to have a good comfort in hot climates.

Material	Temperature (°C)
Off-white prepainted steel sheet	~29
Covered natural aluminium	~30
Off-white sandwich panel 4 cm.	~36

### A POWERFUL AND WEIGHT-RESISTANT METAL ROOF

In Ondulit systems, mechanical and thermal expansion characteristics are those specific of the steel, constituting the sheet's internal core.

Material	Tensile Strength (N/mm <sup>2</sup> min.)
Copper	250
Aluminum 3103	95-180
Steel Fe E 250	330

Material	Thermal Expansion (mm/m°C)
Copper	0.017
Aluminum 3103	0.024
Steel Fe E 250	0.011



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**IPLA**  
PROJECTS  
[www.ipla.co.il](http://www.ipla.co.il)

**20\***  
YEARS DURABILITY  
WITHOUT  
MAINTENANCE

\* ITC CERTIFICATION.

CE



Ondulit Italiana



[www.ondulit.com](http://www.ondulit.com)



[info@ondulit.com](mailto:info@ondulit.com)