

open
your

mind

ROOF DESIGN SYSTEM



YOUR ROOFING AND WATERPROOFING PARTNER

FLEXIBLE ROOF DESIGN SYSTEM

The dream of architects and designers has always been creative freedom.

Flag SpA has added a new medium to the creative palette – three innovative, contemporary, waterproofing membranes (mechanically fixed or adhered), each with a striking and enduring finish.

- COPPER ART® – SILVER ART®
- METAL APPEARANCE WITH DÉCOR PROFILES
- COLOURED MEMBRANES that can be used to create a variety of graphics and logos

Now, in addition to the technical features for which Flag SpA membranes are deservedly renowned – great tensile strength, excellent elongation and UV resistance – the new finishes add a further innovative dimension.

Whatever the application, the Flag system adapts to any 3-dimensional shape. Hot air welded seams guarantee a water-tight seal.

A further major asset of the Flag system is its light weight, making Flag the essential choice for large projects or refurbishments.



new solutions
for cutting edge design

Copper Art® and Silver Art®

metal becomes flexible



Combining the beauty of traditional materials with modern technology, Flag's innovative metallic range comprises two patented membranes – copper (Copper Art®) and aluminium (Silver Art®).

These metallic membranes are easily installed. Decorative profiles can be added to reproduce the beauty of a traditional folded metal seam.



Membrane which is
in accordance to the standards



The marriage between real copper powder and the thermo-plastic membrane guarantees that all Copper Art® membranes will oxidise, taking on the patina of age, gradually changing from tawny brown to dark brown, just like real copper, when exposed to the elements.

Copper Art® and Silver Art®

Copper Art® and Silver Art® systems:

- The system reproduces the traditional metal folded joint, or standing seam profile, by utilising Flag décor profiles;
- This creates an unbeatable cost/benefit, with enhanced appearance;
- The system eliminates the risks associated with traditional metal roofing such as cold bridging, airtightness, corrosion and water ingress at penetrations and details on low pitch systems;
- Flag membranes are simple to install, can be applied on all substrates and ensure total waterproofing and virtually maintenance free benefits to the client.

Via Flag's innovative production system, a very fine metal powder (copper or aluminium) is incorporated into the membrane giving it the same aesthetic qualities as the metal itself.

The marriage between real copper powder and the thermo-plastic membrane guarantees that all Copper Art® membranes will oxidise, taking on the patina of age, gradually changing from tawny brown to dark brown, just like real copper, when exposed to the elements.

Similarly, the aluminium particles in Silver Art® membranes are an integral part of the waterproofing membrane resulting in long term stability of colour.

Additionally, the UV reflectability of Silver Art® membranes reduces heat build up within the system during summer months.

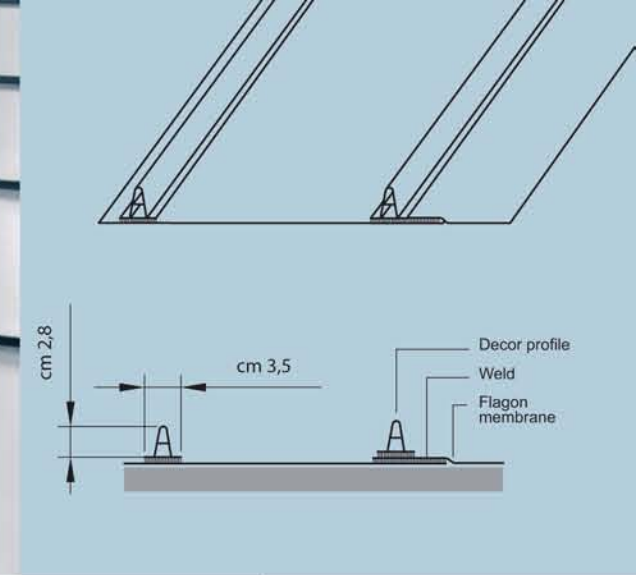
Metallic appearance with decor profiles

the membrane system with a **metallic** appearance

The desire for tradition, without the risks or cost of using metal – this is the need that Flag's Metallic Appearance addresses.

Flagon membranes, produced in three shades - zinc, lead, and verdigris - with the addition of decor profiles, provide a practical and pleasing alternative to folded joint or standing seam metal coverings.





To reproduce the appearance of a metal folded joint, the standing seam profile (décor profile) is heat-welded onto a pre-installed, identically coloured waterproofing membrane. Profiles are available for all Flagon membranes.

Membrane which is in accordance to the standards



Metallic appearance with decor pro files

To reproduce the appearance of a metal folded joint, the standing seam profile (décor profile) is heat-welded onto a pre-installed, identically coloured waterproofing membrane.

Profiles are available for all Flagon membranes and can be welded in any position and to any design requirement, including over the membrane seams. This system gives the flexibility for the designer to use décor profiles to create any desired effect without the limits or constraints associated with traditional metal systems.

In addition, this method negates the disadvantages of airtightness, cold bridging and three dimensional flexibility associated with traditional metal folded joints.

- Gutters and changes in levels are easily formed in the membrane providing a seamless waterproof envelope for any roof.
- Flag waterproofing membranes are unaffected by snow, ice and heat. They conform to all environmental requirements and have world wide independent certification.
- Flagon membranes are characterised by a high

coefficient of water vapour permeability ($\mu = 30.000$) and therefore reduce the possibility of condensation problems within the roof system.

- The system is compatible with most supporting structures including timber, metal, and concrete. Vapour retarders/barriers can be incorporated together with insulation boards to comply with all necessary environmental and climatic conditions.
- Easy to lay, they are quick and economical in comparison to traditional metal finishes in zinc, lead or copper.

• **Virtually maintenance free.**

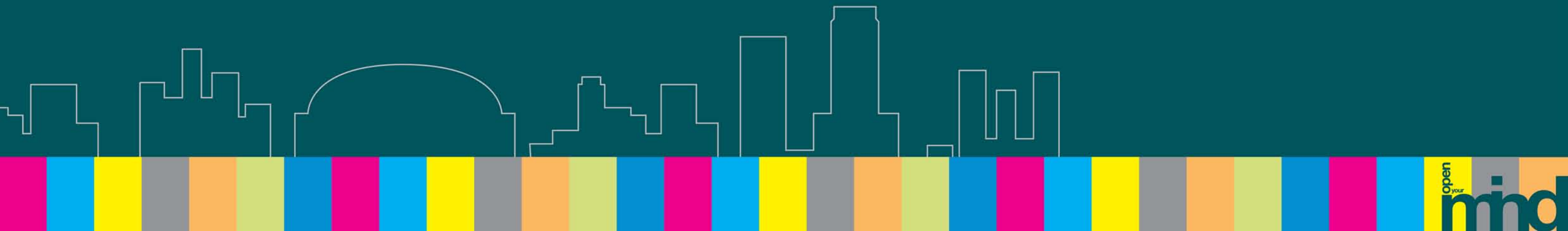
- The system is ecologically sound with both membrane and décor profile being recyclable and conforming to the European Consortium's "ROOFCOLLECT®" programme addressing the reclamation of synthetic coverings at the end of their life.

Coloured finishes & graphics

enhance your roof covering

With Flagon coloured finishes, the membrane itself becomes an expressive element.

Building on the experience acquired in creating membranes for swimming-pools where Flagpool is produced in 16 different colours, Flag SpA has created coloured Flagon membranes that allow the designer to customise the waterproofing system in limitless ways.





Corporate logos, trade marks and customised graphics can be created digitally, traced onto membrane, cut out and heat-welded to the main main field sheet. Any standard RAL colour/s may be selected.

Membrane which is in accordance to the standards

 Recycling System for Thermoplastic Membranes

Coloured finishes & graphics

By choosing the coloured finish system, each project carried out with Flag SpA's synthetic membranes is unique and incomparable. Indeed, customised colouring of the membrane can immediately identify a particular architectural feature for a company, shop, trade centre museum, cinema, theatre or sports stadium. Moreover, by choosing one or more appropriate colours a building may be either camouflaged in its

surroundings or rendered more visible from the air or an elevated road. Corporate logos, trade marks and customised graphics can be created digitally, traced onto membrane, cut out and heat-welded to the main main field sheet. Any standard RAL colour/s may be selected.

The pigmentation of coloured finish membranes is homogeneous, long lasting with proven durability. From a technical viewpoint, the caste spread manufacturing system enables the chosen colour to be mixed directly into the membrane compound together with plasticizing and stabilizing resins. This process ensures durability of the colour. After a number of years, should the roof become dirty, the

membrane can easily be cleaned using a mild detergent and pressure-washer.

The information contained in this brochure has been verified in Flag's own and/or in independent laboratories.

All the applications suggested take into account the prevailing local and national standards and regulations in force in each country.

The reliability of our products, and the guarantees to which we refer, apply only to installations carried out by approved contractors.

For specific requirements or applications, please refer to our technical office.

All colours comply with EOTA UV resistance standards; nevertheless, they are subject to natural alteration over time.

Flag SpA retains the right to modify the information contained within this document.



Company Quality System Certificate UNI EN ISO 9001
Company Environmental System Certificate UNI EN ISO 14001

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