MERMET

Intelligent fabrics

PRESS RELEASE
A project by Mermet

The new Gadagne museum in Lyon is equipped by Mermet

Once again, Mermet, the manufacturer of glass yarn based fabrics for solar protection (located in Veyrins Isère), is able to demonstrate its technical capabilities at a prestigious project site: **the brand new Gadagne museum in the city of Lyon**, the opening of which took place in the presence of Christine Albanel, Minister of Culture and Communication, on 12th June 2009.

The building complex situated at the heart of "Old Lyon", an area designated as a World Heritage Site, includes the Lyon History Museum and the Puppets of the World Museum. A magnificent Renaissance building, itself classified as a Historic Monument in 1920, it is reopening its doors after 10 years of restoration.
To protect the historical works and other objets d'art, the architect (Bizouard et Pin Architecture) selected Mermet® fabrics for the 146 interior moveable frames specially designed to provide solar protection, and for the 16 printed kakemonos used as signage in certain rooms.

Solar protection between light and transparency
The difficulty for museums is to find the right balance between shade and light and to provide:
- on the one hand, the necessary protection for exhibits which must meet pre-defined levels of luminosity (a maximum of 50 Lux is permitted),
- and on the other hand, protection which does not obscure completely, for the comfort and visibility of the public.
The selected fabric must meet two main requirements: to provide sufficient brightness quality while limiting the amount of natural light.

In addition, the historical aspect of the Renaissance style had to be taken into consideration:
- tailor-made panels of different dimensions made for the various windows in the 40 exhibition rooms, spread out over 3 buildings and 5 floors, giving a total of 294 m² of fabric,
- an installation system which preserves the period wooden features,
- the deployment of solar protection which needed to be unobtrusive in order to:
  - melt into the interior decor,
  - let the coloured light effect of the stained glass windows and the interior courtyard show through.

The proposed solution was a fairly original one: fitted as a sheet stretched over a frame, just a few centimetres from the existing window panes. The attachment system, fixed on one side and held down by magnetisation on the other, allows the frame to be opened like a superimposed window.

Mermet, adaptable to all applications
The architect's overriding requirement was to maintain the harmony of the buildings. It was therefore necessary to find a supplier who could offer unique solutions in the area of solar protection and signage. In addition to the 146 window panels, 16 kakemonos were therefore produced for printing.
Not being able to fix directly onto the original walls, the tensile panels are secured by cords to the floors and ceilings (varying between 2.1m and 4.1m high)
With each individual fabric panel able to provide both solar protection and signage, Mermet offers the museum a harmonious and high-quality solution.
The chosen fabric, M-Screen 8503, meets all the requirements of a public building:
- Non-flammable,
- High mechanical resistance and good dimensional stability,
- Oeko-tex standard 100 and Greenguard® certification and the Enduris™ Glass Core quality label for visitor health and safety.

The decorative colour 0207 White Pearl and the basketweave of this coated fibreglass fabric offer transparency and thermal comfort while controlling the amount of natural light (around 87% of light rays are filtered for superior glare control).

Suitable for many different applications (solar protection, tensile structures and signage), Mermet offers you a mix of properties.
Already present in numerous museums and historical buildings, the company is returning to its home region to give the Gadagne Museum in Lyon the benefit of its know-how. Between shade and light, Mermet is helping to provide this exceptional location with its own very special atmosphere…

Press contacts: Dépêches
                   Bérengère Vital – Florence Le Berre
                   Tel: (0) 437 490 202
                   E-mail: depeches@depeches.fr

■ www.sunscreen-mermet.com

Project Specifications

Gadagne Museum Project

Type of project: Public sector - museum

Description:
2 museums spread out over 3 Renaissance-style buildings, classified as Historic Monuments

Description of textile structures

Quantity of fabric: 146 mobile interior frameworks, a total of 294m² of fabric
16 kakemonos for interior signage, a total of 66m² (digitally printed panels using environmentally-friendly solvent-based inks)

Dimensions:
Kakemonos
Panels fixed using stainless steel sets of cables Ø 3mm fixed to floors and ceilings, supplied by the company Mustang.
Panels are between 84cm and 90cm wide; height varies between 2.1m and 4.1m for 90cm panels and between 80cm and 120cm for 84cm panels.

Moveable frames
Dimensions vary according to the sizes of the existing windows.
Fixed panels, frame-stretched, attached by a velcro fastening system.
Metal moveable frames of colourless varnished poly-steel + metal fittings for moving parts + magnetised latch for closing.

Fabric reference: M-Screen 8503 colour 0207 White Pearl

Composition: 36% Glass yarn/64% PVC
Openness coefficient: 3%
Weave: Natté 1 X 2

Fire classification: M1 (France)
Eco label: Oeko-tex Standard 100 class IV, Greenguard®, Enduris™ Glass Core
Weight per m²: 430g ± 5%
Thickness: 0.55mm ± 5%
Breaking strength:
  Warp > 150 daN/5cm
  Weft > 150 daN/5cm
Tear resistance:
  Warp ≥ 5 daN
  Weft ≥ 4 daN
Resistance to fold:
  Warp and weft > 20 daN/5cm

Colour fastness to light: 7/8 (reference scale of 8 colours) white not rated

Construction: Welding (thermal, high frequency, ultrasound) or stitching
Marking: Digital printing/ Screen printing/ Transfer/ Paint
Guaranteed 5 years

Participants

Client/Building owners: Gadagne Museums

Project Manager/Architect/Designer: Bizouard et Pin Architecture (BPII)

Printer: Normandie Gravure

Fastenings/Metalwork: MORENO

Installation: MORENO

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