

Aluminium Composite Panel  
Luxury ACP Collection PVDF Coating



[www.maco.co.id](http://www.maco.co.id)

**European Quality**  
Number 1 PVDF Coating



**FIRE  
RETARDANT**

Available In **A2 & B1**  
Aluminium Composite Panel

## COMPANY PROFILE



**PT Kencana Panelindo** adalah perusahaan lokal pertama yang mulai memproduksi Aluminium Composite Panel di Indonesia pada tahun 2012 dan berkomitmen untuk menjadi yang terbaik dan market leader di Indonesia.

**PT Kencana Panelindo** merupakan sister company dari Kencana Group dan produk kami Maco ACP dan Alcopan ACP tercipta dengan didukung teknologi modern.

Kami mempunyai staff dan tenaga ahli bekerja sama dengan salah satu produsen Aluminium Composite Panel terbaik di dunia. Pabrik kami berada di Tigaraksa-Tangerang, dengan teknologi ACP line terkini, dual extruder screw yang membuat proses produksi cepat dan efisien.

Komitmen kami tidak hanya menjual produk, tapi juga menyediakan technical dan application advice kepada project sekaligus memberikan training kepada para pengawas dan tenaga kerja di lapangan.

Seiring dengan semakin meningkatnya standard kualitas material bangunan di Indonesia, dan harapan dari pihak para owner, konsultan dan kontraktor akan kualitas yang semakin baik bagi proyek-proyek mereka.

**PT Kencana Panelindo** memegang peran yang sangat penting bagi proses peningkatan kualitas dengan memberikan produk ACP yang tepat beserta layanan pendukungnya dalam rangka memenuhi harapan mereka.

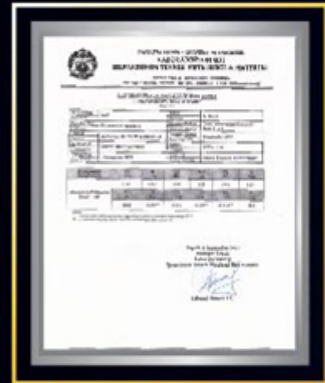
# SERTIFIKAT



Sucofindo



SGS Test



Laporan Uji Departemen Teknik Metalurgi & Material



ISO 9001 : 2015

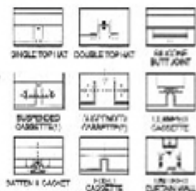


Fire Retardant Test



Balai Besar Bahan & Barang Teknik

## Economy & Ease of Installation

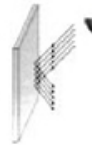


MACO panel will reduce the replace cost and installation time since this system does not require additional reinforcing structure and insulation layer.

## Great Impact Resistant Weather Durability



Viscoelastic high molecular resin comprises the core, preventing cracking or breaking, yet comes with the exceptional high stiffness and impact resistant



MACO panel coated with fluoro-carbon (PVDF) resin. It withstands the extreme weather conditions and minimizes the possibility of acid alkali and saltspray corrosion, hence unaffected by the temperature change and the long-term bath of ultra violet ray. And it can be used for 20 years without fade

## Easy to maintain and clean



MACO panel performs well in its pollute resistance. Even it is used in seriously polluted area the panel just needs to be maintained and cleaned after several years use. Only neutral cleanser and water needed for its self-clean performance. It looks like new after clean.

## Recycling



MACO is fully recyclable, i.e. both the core material and the aluminum cover sheets can be remelted and used for the production of new material.

## Sound Transmission Loss



Compared to other materials of the same weight (steel, solid aluminum, tile, plywood, etc.), MACO panel has a greater sound transmission loss

## Smooth coating and Various color



Dealing with the surface of aluminum material and with the application of Henkel technology makes the panel stamped with a very strong smooth face and various color for your choice.

## General Properties

### Aluminium thickness :

No	Top & Bottom	Coating	Usage
1	0.30 mm	PVDF	Below 8 <sup>th</sup> floor
2	0.40 mm	PVDF	Between 8 <sup>th</sup> - 12 <sup>th</sup> floor
3	0.50 mm	PVDF	Above 12 <sup>th</sup> floor

*Maco aluminium composite panel have total thickness 4 mm*

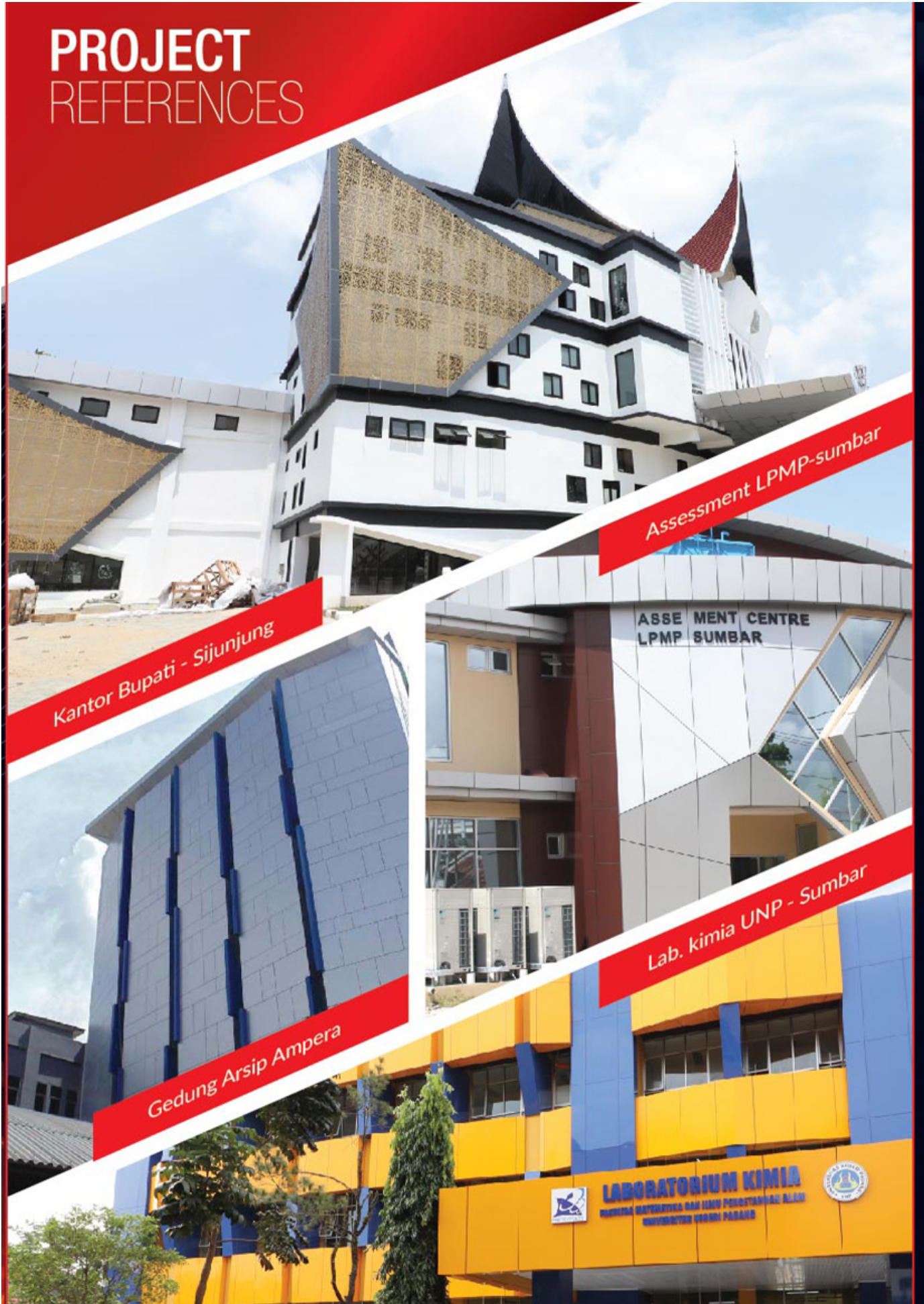
### Result test :

No	Test Item	Test Method	SGS Result	B4T Result
1	Coating thickness	ASTM D7091-12	34,3 $\mu$ m	-
2	Pencil hardness	ASTM D3363-05(2011) <sup>e2</sup>	2H	No scratch
3	Adhesion	ASTM D3359-09 <sup>e2</sup> method B	Classification: 5B	-
4	Alkali resistance	ASTM D1308-02(2007)	$\Delta E = 0.9$	-
5	Heat deflection temperature	ASTM D648-07	106,6 °C	111,8 °C
6	Flextural strength	ASTM D790	116 MPa	125,4 MPa
7	180° peel strength	ASTM D903	11,5 N/mm	-
8	Tensile strength	ASTM D638	47,6 MPa	53,5 MPa
9	Shear strength	ASTM D732	28,0 MPa	-
10	Flexibility test	ASTM D522	No cracking or other visual change	No cracking
11	Unit weight		5,76 kg/m <sup>2</sup>	-

### Important

All the colours reproduced on this colour chart are subject to printing limitations. For exact colour matching , actual colour samples are available on request. To avoid possible reflection differences, it is recommended to install the panels in the same direction as marked on the protective film. The protective film should be removed within 6 weeks of installation. In case of metallic colors, sparkling colors and wooden & stone series, the color may vary slightly between production lots. Therefore, it is recommended to place total requirement for a project in one order to ensure color consistency for these colors.

# PROJECT REFERENCES



Kantor Bupati - Sijunjung

Assessment LPMP-sumbar

Gedung Arsip Ampera

Lab. kimia UNP - Sumbar

**LABORATORIUM KIMIA**  
PUSAT PENELITIAN DAN LAYANAN PENELITIAN  
KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN

SOLID COLOR



Dark Blue KPF 2012



Ruby Red KPF 2002



Black Coffee KPF 2019



Signal Blue KPF 1001



Chinese Red KPF 1002



Coffee KPF 2014



Blue KPF 2026



Orange KPF 1004



Pink Coffee KPF 2007



Sea Blue KPF 2008



Dark Yellow KPF 2003



French Grey KPF 6130



Lake Blue KPF 6126



Lemon Yellow KPF 1003



Grey White KPF 6114



**KYNAR500**

**HYLAR 5000**



SOLID COLOR



Peak Green KPF 6119



Green KPF 2011



Light Green RAL 6027



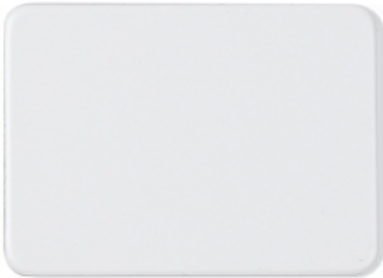
Lime Green KPF 2027



Rose Red KPF 2016



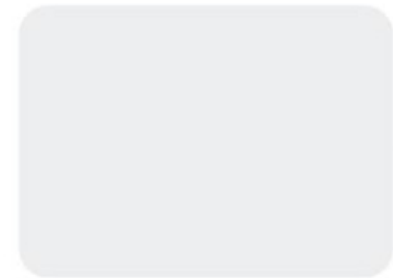
Black KPF 6819



Pure White KPF 1005



Ivory White KPF 2015



GLOSSY COLOR



Red Glossy KPF 2032



Blue Glossy KPF 2031



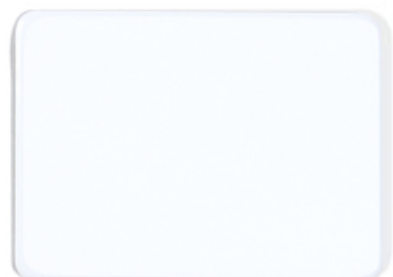
Signal Blue Glossy KPF 2033



Green Glossy KPF 2024



Yellow Glossy KPF 2057



White Glossy KPF 2023

METALLIC COLOR



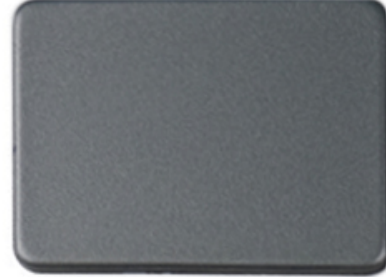
Black Galaxy

KPF 2076



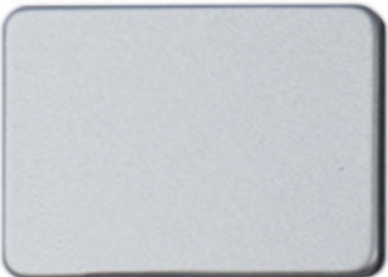
Metalic Black

KPF 6225



Black Silver

KPF 2006



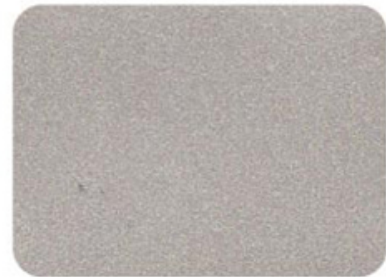
Light Silver

KPF 2001



Champagne Silver

KPF 2075



Champagne Gold

KPF 2004



Sub Silver

KPF 1008



Jade Silver

KPF 6213



Metalic Gold

KPF 6224



Gold

KPF 2005



Cooper

KPF 2084



Shining pearl orange

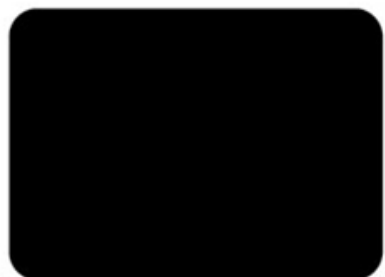
KPF 2086

SHINING COLOR



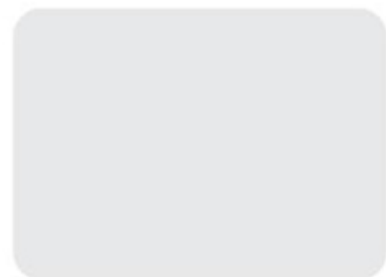
Shining pearl red

KPF 2087



Shining pearl black

KPF 2088



Shining pearl white

KPF 2085



WOOD COLOR



Wooden Finish

KPF 6332



Dark Teak

KPF 2093



Black Walnut

KPF 2095



Cherry Wood

KPF 2091



Teak

KPF 2094



Light Teak

KPF 2092



Wooden Yellow

KPF 6333



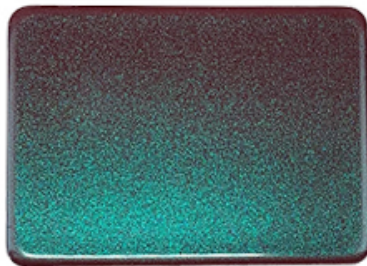
White Oak

KPF 2090



White Maple

KPF 2089



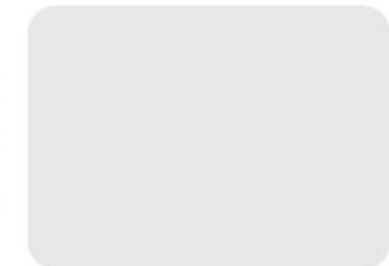
Chameleon Red

KPF2096



Chameleon Ivory

KPF2097



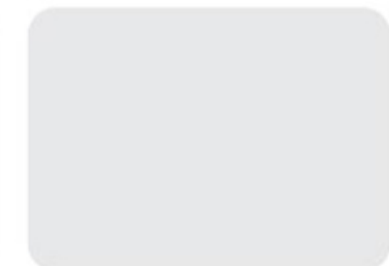
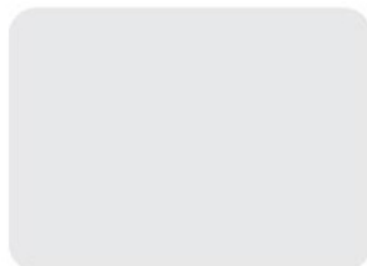
chameleon Blue Cooper

KPF2099



Shining Pearl Blue

KPF2086



CHAMELEON



## Anodized Coating for Exterior and Interior

Market leading innovative and high-quality materials from Kencana Panelindo in collaboration with ALANOD

### OUTDOOR APPLICATION



PT Kencana Panelindo bekerja sama dengan ALANOD GmbH & Co untuk memproduksi ACP dengan aluminium khusus yang di produksi langsung di pabrik Alanod Ennepetal German. ALANOD adalah pabrik German terdepan di dunia di bidang reflektif surface dan aluminium. Di dirikan tahun 1975 ALANOD telah memadukan proses teknologi, dari coating Anodising dan high vacuum (PVD). ALANOD mempunyai team research dan berdedikasi penuh.

Produk Alanod bersertifikat ISO 9001/14001 dan juga ISO energi management yaitu ISO 50001. Di yakinkan dengan adanya kerja sama dengan ALANOD ini memastikan produk MACO dari Kencana Panelindo adalah yang terdepan disegi kualitas dan terbaik di dunia.



Butlerfinish Clear Lacquer  
DP7FL22



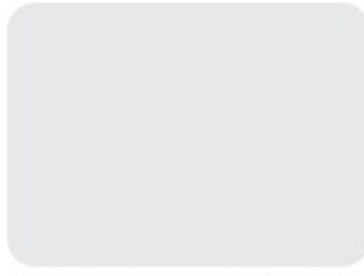
Butlerfinish Translucent Cooper  
DP7FL22



High Specular Transparent Lacquer  
DP4FL01



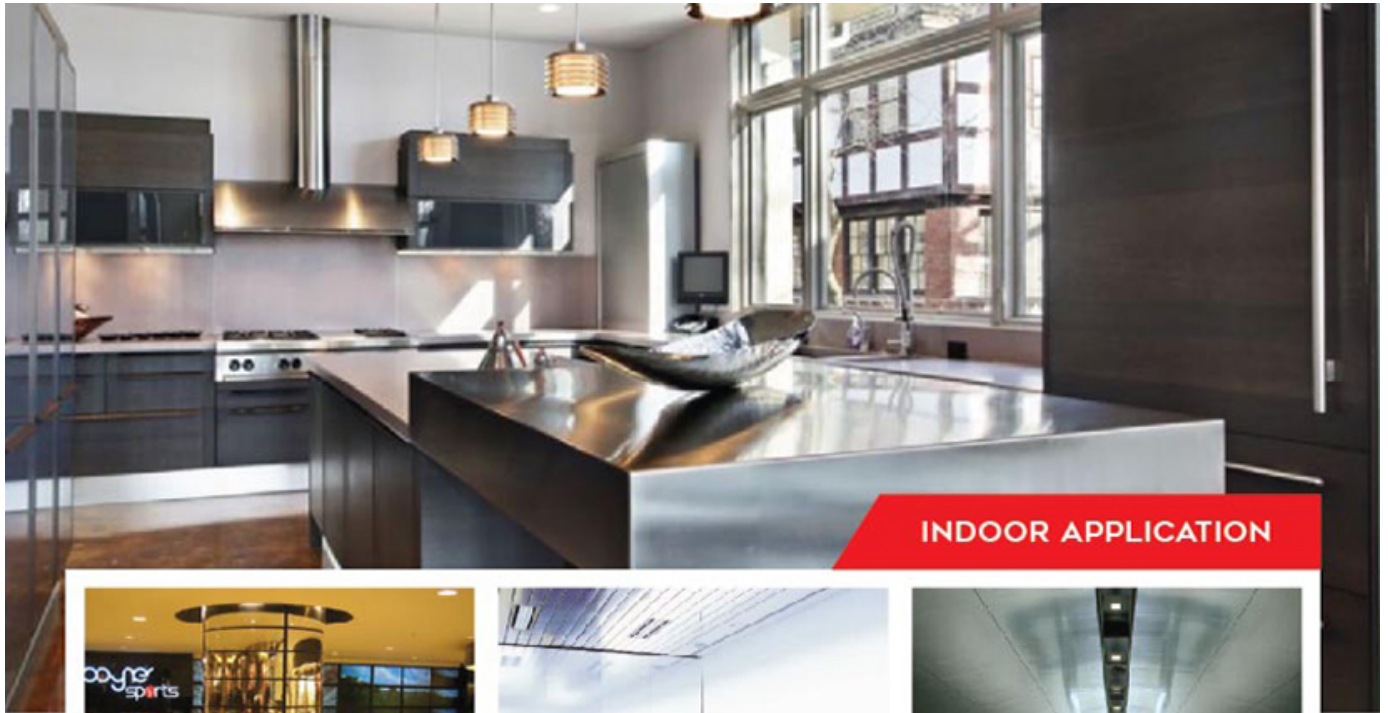
Gloss Mirror Translucent Bronze  
DP4FL22



Gloss Mirror Translucent Stainless Steel  
DP4FL22



Gloss Mirror Translucent Gold  
DP4FL22



**INDOOR APPLICATION**



Alanod provides a

**20 YEAR**  
MATERIALS WARRANTY



Butlerfinish Clear Lacquer  
DP7FL22



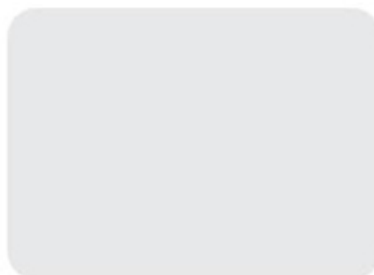
Butlerfinish Translucent Cooper  
DP7FL22



High Specular Transparent Lacquer  
DP4FL01



Gloss Mirror Translucent Bronze  
DP4FL22



Gloss Mirror Translucent Stainless Steel  
DP4FL22



Gloss Mirror Translucent Gold  
DP4FL22



UNP Auditorium



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