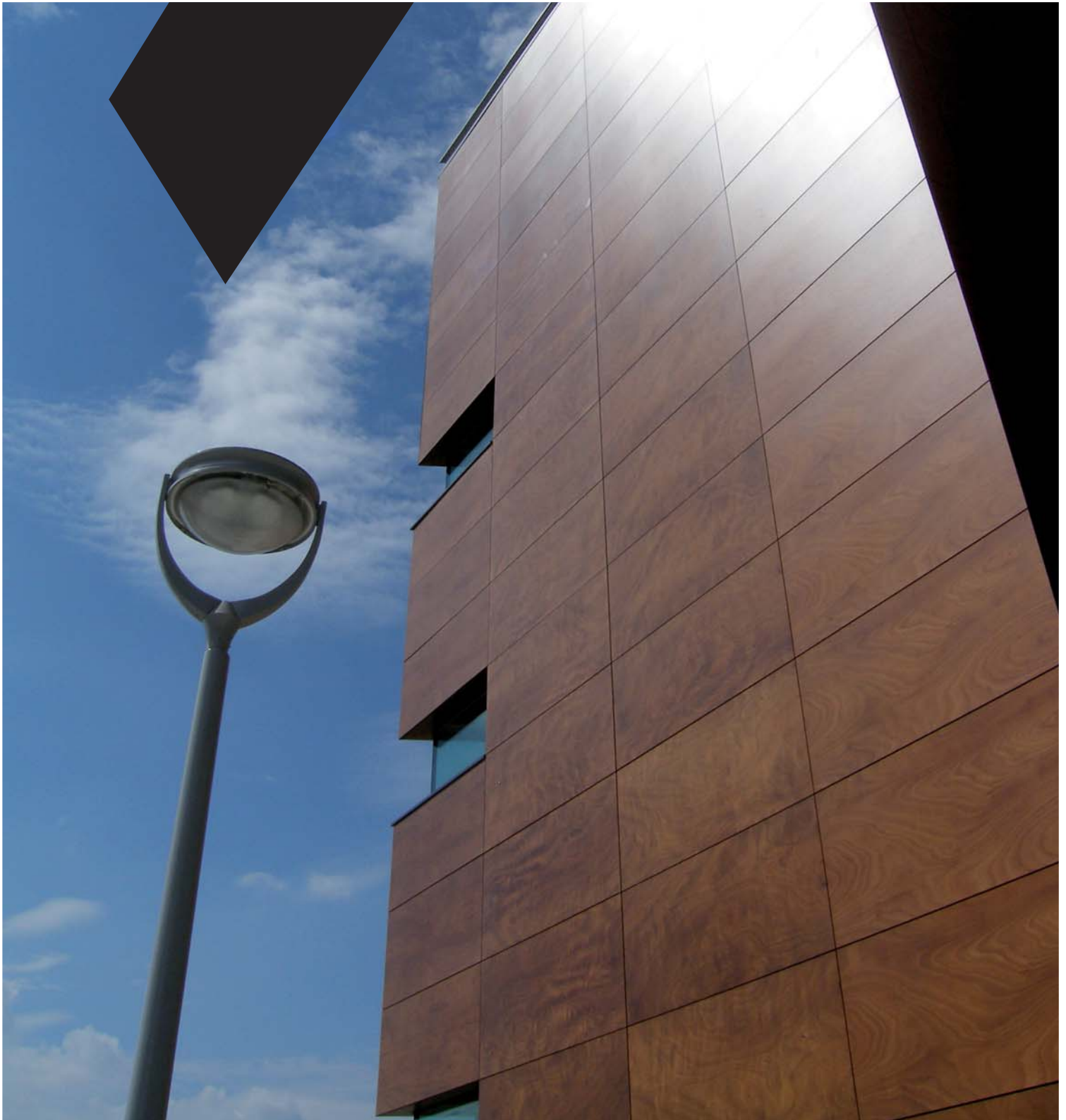




The durable, contemporary timber solution.

External Parklex[®]





Outdoor wood coverings.

Only with materials manufactured from natural wood is it possible to transmit the sensation of quality and comfort that wood can give a building.

Parklex has a wide range of special outdoor paneling, all manufactured from natural wood and subjected to a manufacturing process that gives the wood properties of strength and durability, that make it ideal for use on building exteriors.

Whether it rains, is sunny, hot or cold, Parklex makes it possible to cover the façades of buildings with natural wood, giving them a look of quality and comfort from the outside, with quality absolutely guaranteed. Don't just settle for showing comfort on the inside.

Parklex[®] Facade

High-density stratified timber panels for external use.

Parklex Facade is a high-density stratified timber panel manufactured from kraft paper treated with resins thermoset under high pressure and temperature, finished with natural timber veneers highly resistant to UV radiation and atmospheric agents.

Parklex Facade includes **Everlook[®]**, a special overlay that dramatically increases the normal life of the panel, improving UV resistance and colour stability. It also allows for the development of new panels with an extensive range of finishes.

Finish range



Ambar



Antra



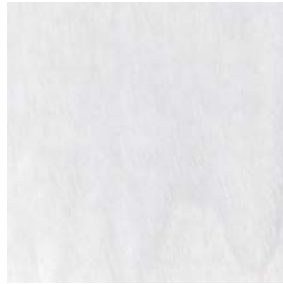
Copper



Gold



Onix



Quartz



Rubi

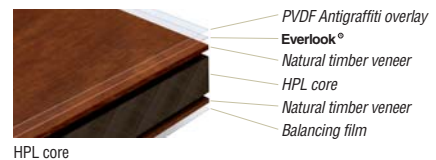


Silver

Surface characteristics

Smooth. Traditional Parklex finish. Reveals the simple, natural beauty of the wood it is manufactured with.

Panel construction



HPL core

Quality that's plain to see

Water resistant.

Parklex is successfully installed in a wide range of climatic environments throughout the world. Our extensive manufacturing experience and commitment to R & D has allowed us to develop a unique timber building material able to withstand the harshest weather conditions. In addition, our process provides timber panels for use in the aggressive environments created in and around swimming pools, spas and shower rooms.

Sun resistant.

One of the enhanced features of the new Facade panel is its high resistance to UV degradation, sunlight being the harshest natural element. As a progressive company, at Parklex we constantly thrive to deliver superior performance by way of advanced manufacturing techniques in panel production. Our materials offer the highest level of colour stability possible, whilst maintaining the beauty and variations found with natural timber.

Anti-graffiti and maintenance.

It is an unfortunate fact of life that many of the best architectural projects have their appearance marred by the random application of graffiti, often applied with cellulose based spray paints. The surface of Parklex Facade has been specifically designed to ensure the simple removal of the graffiti, without damage to the panel characteristics or appearance. In addition, Parklex Facade resists soiling by airborne pollutants, and requires a very low frequency of general cleaning. Both important factors when considering the ongoing cost of building maintenance.

Long term performance.

At Parklex we don't settle for simply complying with the necessary regulations. We strive to produce materials which far exceed the performance requirements laid down in the European Regulation EN 438-6:2005. This norm specifies a result after Artificial Weather Conditions Resistance Tests of 3.000 hours. After extensive development, Parklex Facade has achieved a result for most finishes of more than twice the published requirement. As leaders in our field, we don't just comply with regulations, we exceed. Which is exactly what our clients expect.

Technical characteristics

1. Inspection requirements

Thickness ≥ 6 mm

| Tests | Standard | Property or Attribute | Mesure Unit | Result |
|------------------------------------|------------------------|--|-------------|--------|
| Colour, pattern and surface finish | EN 438-8 Apto. 5.2.2.3 | Due to the fact that wood is a natural product, each veneer may be considered as unique. Colour and structure differences are considered as normal. Singularities such as knots and resin inclusions are not considered as defects, but as a part of the décor. There are differences in light fastness performances depending on the wood species and the source of the wood. | | |

2. Dimensional tolerances

| Tests | Standard | Property or Attribute | Mesure Unit | Result |
|-------------------|------------------|--|-------------|--|
| Thickness (t) | EN 438-2 Part. 5 | 6,0 ≤ t < 8,0 8,0 ≤ t < 12,0 12,0 ≤ t < 16,0 16,0 ≤ t < 20,0 20,0 ≤ t < 25,0 | mm | ± 0,40 ± 0,50 ± 0,60 ± 0,70 ± 0,80 |
| Length and width | EN 438-2 Part. 6 | - | mm | +10 / -0 |
| Edge straightness | EN 438-2 Part. 7 | - | mm/m | 1,5 |
| Edge squareness | EN 438-2 Part. 8 | - | mm/m | 1,5 |

3. Physical properties

| Tests | Standard | Property or Attribute | Mesure Unit | Result |
|--|-------------------|--|--|--|
| Flexural strength | EN ISO 178 | Longrain Crossgrain | Mpa | > 80 > 80 |
| Flexural modulus | EN ISO 178 | Longrain Crossgrain | Mpa | > 9.000 > 9.000 |
| Resistance to wet conditions | EN 438-2 Part. 15 | Moisture absorbed Appearance | % Rating | ≤ 5 (S), ≤ 8 (F) ≥ 4 (S), ≥ 4 (F) |
| Dimensional stability at elevated temperatures | EN 438-2 Part. 17 | Cumulative dimensional change (t ≥ 6mm) | % max | 0,30 0,60 |
| Resistance to impact y large diameter ball | EN 438-2 Part. 21 | Maximun height for which no visible surface cracking or imprint greater than 10 mm (t ≥ 6mm) | mm | ≥ 1.800 |
| Tensile strength | EN ISO 527-2 | Longrain Crossgrain | Mpa | > 60 |
| Density | EN ISO 1.183 | Density | gr/cc | ≥ 1,35 |
| Determination of graffiti resistance | ASTM D 6578:2000 | Cleanability level | Permanent blue maker Spray red paint Wax black crayon Water based ink black maker | Level 4 Level 4 Level 1 Level 2 |

4. Weather resistance requirements

| Tests | Standard | Property or Attribute | Mesure Unit | Result |
|--|---|--|-----------------------------|---|
| Resistance to climatic shock | EN 438-2 Part. 19 | Appearance Flexural strength Elastic modulus | Rating min min | ≥ 4 ≥ 0,95 ≥ 0,95 |
| Resistance to UV light | EN 438-2 Part. 28 Rating EN 20.105 - A02 | Contrast Aspect | Grey scale rating Rating | ≥ 3 ≥ 4 |
| Resistance to artificial weathering (including light fastness) | EN 438-2 Part. 29 Rating according to EN 20.105 - A02 | Contrast Appearance | Grey scale rating Rating | Gold (3.000 h) ≥ 3 Quartz (3.000 h) ≥ 3-4 Rubi (5.000 h) ≥ 3 Ambar, Antra, Copper, Onix (6.000 h) ≥ 3 ≥ 4 |

5. CE safety requirements

| Tests | Standard | Property or Attribute | Mesure Unit | Result |
|---------------------------------|--------------------|---------------------------------|-------------|------------|
| Thermal resistance/Conductivity | EN 12664 | Thermal conductivity (λ) | W/m K | 0,26 |
| Water vapour permeability | EN 438-7 Part. 4.4 | Wet cup meted Dry cup method | μ | 110 250 |
| Resistance to fixings | EN 438-7 Part. 4.5 | Screw holding value | Nw | > 2.000 |

6. Fire reaction (UNE EN 13.501-1)

| Spec. | Thickness | Result | Spec. | Thickness | Result |
|-------|-----------|---------|-------|-----------|---------|
| S | ≥ 6 mm. | D S2 d0 | F | ≥ 3 mm. | C S2 d0 |
| S | ≥ 8 mm. | C S1 d0 | F | ≥ 6 mm. | B S2 d0 |
| - | - | - | F | ≥ 10 mm. | B S2 d0 |

Panel dimensions

| Length x width | Smooth thickness |
|-----------------|--|
| 2440 x 1220 mm. | 3, 6, 8, 10, 12, 14, 18, 20 and 22 mm. |

Other thicknesses may be available upon request.

Projects



1. European Center for Business and Innovation

Granada, Spain.
Architect: Francisco Martínez Manso, Rafael Soler Márquez

2. Hospital

Korea.
Architect: Seo hae-cheon

3. Children Museum

Ireland.
Architect: Traynor O'Toole

4. Metro Hotel

Seoul, Korea.
Architect: Oh Moon-Seok (H&A)

5. Semilcos head office

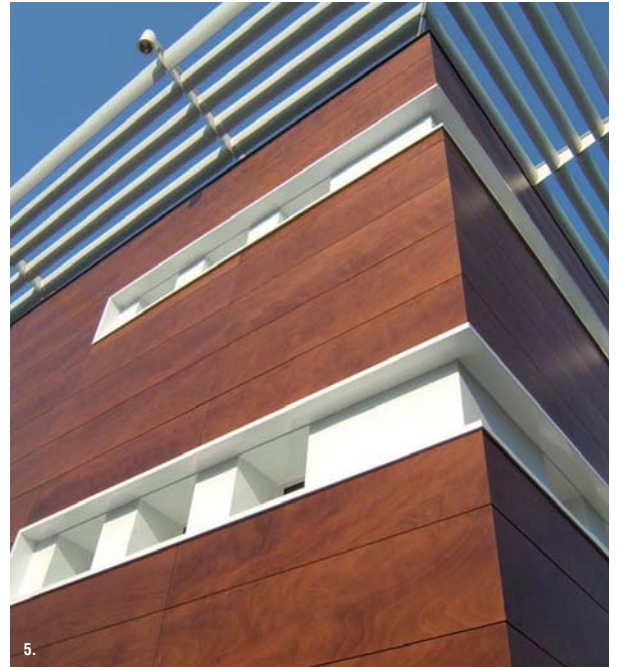
Vicenza, Italy.
Architect: Pollini+Smania

6. Alhambra Information points

Granada, Spain.
Architect: Francisco Martínez Manso, Rafael Soler Márquez

7. Leeds Valley Park

Leeds, United Kingdom.
Architect: dn-a www.mydn-a.com





Private housing (Korea)
Architect: Lim Jae Yong (OCA)



Parklex®

Parklex® Facade

Parklex® 700

Parklex® 500

Parklex® 2000

Parklex® 3000

EN/02/0812



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