UPVC WINDOW & DOOR PROFILES

Open up to an Eco-World

INTERPLAST COMPANY LIMITED
Welcome to Interplast Building Materials Division’s world of thoughtful innovations. As an integral part of Group Harwal Technologies - an international investment and management company specialized in various manufacturing industries, Interplast started the Building Materials Division specifically to provide state-of-the-art products for the continuously growing construction industry of the Middle East.

The primary goal of this division is to innovate and create quality products that enhance the new-age building architecture. And the latest addition to our impressive range is DURAMAX® UPVC Window & Door Profiles.

DURAMAX® is a unique combination of technological expertise in plastic processing over the last 60 years, and the use of vast resources in manufacturing - to give you high quality UPVC window and door profiles. And this path-breaking innovation is created at a fully-integrated manufacturing facility that includes high-tech co-extrusion equipment, in-house tooling expertise and specialist supervision.
is the final word

Everything that you want of your windows and doors, DURAMAX® has it. Today, DURAMAX® is a market leader and a pioneer in manufacturing UPVC windows.

Having been developed in the Gulf, DURAMAX® is backed by the understanding of the specific needs of the Gulf climate, and factoring in the harsh climatic nature of this region. Extensive research and development behind the product range ensures that it is the perfect solution in UPVC Windows & Doors.
DURAMAX® UPVC windows are designed to enhance the quality of your life in various ways.

Advantages over conventional windows systems

WELDED JOINTS
Unlike ordinary, conventional systems, DURAMAX® UPVC windows/doors are welded, ensuring that there is no air gap. This high quality precision binding keeps the house free from dust and noise.

THERMAL BREAK REDUCES ELECTRICITY COST
DURAMAX® windows are made from UPVC materials, which are bad conductors of heat, thus keeping the house cool and reducing consumption of electricity.

ISLAMIC ARCHES POSSIBLE
Unlike conventional window, DURAMAX® UPVC windows are more flexible and can be easily shaped into arches and various styles of Islamic designs.

FIRE RETARDANT
UPVC material used in DURAMAX® profiles eliminates the hazards of fire, and ensures safety for you and your family.

ANTISTATIC PROPERTY
The antistatic nature of UPVC repels dust and other harmful dust particles from the panel.

WOODEN FINISH LAMINATES AS GOOD AS WOOD
Wooden Finish laminates are aesthetically designed to match the look and feel of real wood. So when laminated on profiles it appears like a natural wooden window.
MAXIMUM WATER TIGHTNESS AND WIND RESISTANCE

DURAMAX® window systems incorporate broader corner profiles, which have high resistance to driving rain and joint tightness, ensuring added protection from strong wind, heavy rain and salty air.

RECYCLABLE

UPVC is easy to recycle and as such do not leave any hazardous waste into the environment.

SMOOTH SURFACE FOR EASY TO CLEANING

The surface of the UPVC is non-porous and does not allow dust or any other dust particle to settle on its surface. This allows easy cleaning of all doors and windows.

Coextruded UV Protection Layer key to performance

All DURAMAX® UPVC profiles come with a COEXTRUDED UV PROTECTION LAYER, specially suited to the harsh weather conditions of the Gulf region. This extra coating gives additional thermal protection, keeps out the heat and dust.

Note: Blue Colour shown in the picture is to indicate transparent UV Layer of the actual profile.
It’s the technology of the future, designed to make the quality of life richer and help preserve the environment and natural resources.

DURAMAX® UPVC’s slimmer, lighter profiles optimize material usage. Subject to the number of sashes, various design alternatives permit a maximum size of 3600 mm. The frame depth of 60 mm, allows easy combination with all profiles of the DURAMAX® system. For instance; Coupling and Angle or Extension Profiles.

Different types of glass, like security glass of up to maximum 28mm thickness can be installed. This colourfast, UPVC requires minimum maintenance to be kept in superior condition. Research proves that even extended exposure to harsh environmental conditions does not affect the UPVC. Keeping them looking as good as new!

UPVC technology improves the window system’s performance, through increased thermal insulation with a reduction of energy consumption and improved sound insulation. The technology also optimizes the use of raw material components and refines the product, ensuring longevity with an increased lifespan of UPVC profiles. It can be recycled easily, by this it reduces the consumption of raw materials, energy and protects the environment.
Beautiful things are readily noticed. On this count too DURAMAX® scores high. They are strikingly attractive and beautiful. They bring fresh aesthetic beauty to new and old buildings alike. DURAMAX® UPVC windows are built according to a carefully designed profile concept. This concept allows for many different window designs, with the widest variety.

With these windows of all shapes and designs, varying from rectangular, polygonal, round or extra large units you can implement your own personal style. When it comes to making your ideas a reality, DURAMAX® profile systems give you virtually unlimited freedom.

Quality & Beauty are No Compromise
Interplast Building Materials Division has been in the business of window and door technology for a while now. All our products are exclusively created with state-of-the-art inhouse formulation, that makes ‘LEAD FREE’ UPVC profiles more resistant to weathering. The creation of DURAMAX® is yet another means of pursuing our philosophy of excellence in an effort to help ensure human health and preserve the environment.

DURAMAX®’s highly impact resistant profiles are built to last. A wide variety of mullion and transom options offer many design possibilities for architects to create beautiful creations throughout the world. Durability, comfort and style are further enhanced through engineered design for excellent insulation and “easy clean”, low maintenance surfaces. Brush seals ensure that they are tight and allow smooth operation. The perfectly adapted universal hardware is easy to operate.

Our working philosophy involves not just providing you with our products, but partnering with you and customising solutions according to your needs. We are with you all the way. Through the entire course of the work plan, followed by after sales service and additional services for fabrication equipment, training and accessories being made available.
The technical requirements, combined with continuous improvements, form the circle of quality established by DURAMAX®. The level is maintained with regular checks on the quality of their profiles by way of analysis of random samples taken from daily production. This ensures that their quality always accords with the highest of demands. At DURAMAX®, quality must meet the most stringent standards of the industry 100% of the time. This means extending quality control to the entire profile manufacturing process.

Range of laminates & colours

DURAMAX® UPVC window & door profiles give you a whole colour palette and a range of veneer finishes, to choose from. Your DURAMAX® windows and door profiles can be made to match your choice of colour or wood finish. Design and aesthetics are not a compromise when you choose DURAMAX®.

Raw Materials
- Granulometry
- Humidity as %
- Impurities
- Adhesive bonding capacity, etc.

Manufacturing
- Jellification
- Vicat Temperature
- Modulus of elasticity
- Dimensions and Tolerances

Finished Profile
- Impact resistance
- Xenotest for resistance to Weathering
- Strength of corners

Colours & textures are indicative, for actual wood texture & colour please request for sample
There are many windows to this eco-world...

The DURAMAX® UPVC technology may be one-of-kind but the choices within the range are many. To begin with our window systems include:

Profiles used

- TNT 01 - Fix frame
- TNT 02 - Sash open in
- TNT 09 - Double-glazed bead
- TNT 16 - Architrave
- TNT 06 - Mullion

Advantages

- The design of three-chamber system enhances the thermal and sound insulation.
- The outer wall thickness using state-of-the-art special UPVC compound ensures high strength of corner welding, high impact resistance equivalent to international standards. Indigenously developed co-extruded UV protection layers provide an additional protection to profiles to withstand harsh weather conditions in the Gulf region. A unique advantage over many profiles available in the market.
- Various glass beads with co-extruded gasket provide single glaze, double glaze and triple glaze options.
- A detachable architrave is equipped with the frame profiles so that architrave can be used both in external and internal applications.
- Anti static surface of DURAMAX® profiles prevents depositing of dust/dirt and this making it easier to clean.

TURN & TILT WINDOW
DURAMAX® high impact strength profile can be used for windows as well as door, which makes assembly much easier.

Studs inside the reinforcement chamber will keep the metal reinforcement profile away from touching the outer wall of the UPVC profile.

The sash and frame profiles are designed to accept all kinds of accessories available in the market.

Metal reinforcement chambers are scientifically designed to withstand high wind load. Chambers are designed to accept standard steel or aluminum profiles, easily available in the market.

Elegant 15º edges on profiles are visually pleasing.

**Profiles used**

- TNT 01 - Fix frame
- TNT 04 - Door Sash open inside
- TNT 05 - Door Sash open outside
- TNT 07 - Dummy Mullion
- TNT 09 - Double-glazed bead

**Advantages**

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SLIDING DOOR

Profiles used
• SW 01 – three track sliding frame
• SW 04 – Sliding door sash
• SW 05 – Sliding fix frame
• SW 07 – Sliding door interlock
• SW 09 – Sliding fly screen sash
• SW 12 – Sliding double glazed bead

SLIDING WINDOW

Profiles used
• SW 01 – three track sliding frame
• SW 03 – Sliding window sash
• SW 05 – Sliding fix frame
• SW 08 – Sliding window interlock
• SW 09 – Sliding fly screen sash
• SW 12 – Sliding double glazed bead

Advantages
• Slope on inner sliding area [below the tracks] ensures smooth and isolated water drainage.
• Window sash scientifically designed to accept all kinds of accessories available in the market.
• Large metal reinforcement chambers are designed to withstand maximum wind resistance.
• Glass beads with co-extruded gaskets are provided for single and double-glazing.
• Specially made sleek design of sliding fix frame [SW 05] makes the construction of sliding and fixed windows easier, as it can be used as transom too.
• The profiles are designed to have an impressive and harmonious view.
DURAMAX® TILT & TURN PROFILES SERIES

TNT 01 - Fix Frame
TNT 02 - Sash Open In
TNT 03 - Sash Open Out
TNT 04 - Door Sash Open In
TNT 05 - Door Sash Open Out
TNT 06 - Fix Mullion
TNT 07 - Door Dummy Mullion
TNT 08 - Single Glazed Bead
TNT 09 - Double Glazed Bead
TNT 10 - Triple Glazed Bead
TNT 11 - Multi-System Adaptor
TNT 12 - Adaptor Big
TNT 13 - 90° Adaptor
TNT 14 - Round post
TNT 15 - Round post Adaptor
TNT 16 - Architrave
TNT 17 - ADAPTOR SMALL
TNT 18 - Architrave
TNT 19 - Architrave
TNT 20 - Architrave
TNT 21 - Architrave
TNT 22 - Architrave
T&T-INJ-03 T&T Dummy Mullion End Cap-Right
T&T-INJ-01 T&T Mullion End Connector
T&T-INJ-02 T&T Dummy Mullion End Cap-left
RTNT 01 for TNT 01, TNT02 and TNT 03
RTNT 04 for TNT 04 and TNT 05
RTNT 06 for TNT 06
RTNT 07 for TNT 07
RTNT 13 for TNT 13
RTNT 14 for TNT 14
RTNT 12 for TNT 12
RSW 1 for SW1 & SW5
RSW 2 for SW2
RSW 3 for SW3
RSW 4 for SW4
RSW 6 for SW6
RSW 4 for SW4
RSW 6 for SW6
RSW14 for SW14
RSW15 for SW15
RSW16 for SW16
RSW15 for SW15
RSW16 for SW16

DURAMAX® SLIDING PROFILES SERIES

SW1 - Three Track Sliding Frame
SW2 - Sliding Frame
SW3 - Sliding Window Sash
SW4 - Sliding Door Sash
SW5 - Sliding Fix Frame
SW6 - Sliding Mullion
SW7 - Sliding Door Interlock
SW8 - Sliding Window Interlock
SW9 - Sliding Flyscreen Sash
SW10 - Sliding Sash Cover
SW11 - Sliding Single Glazed
SW12 - Sliding Double Glazed
SW13 - Sliding Small Adaptor
SW14 - Sliding Big Adaptor
SW15 - Sliding 90° Adaptor
SW16 - Sliding 135° Adaptor
SW4-INJ-03 Sliding Window Sealing Block
SW-INJ-01 Sliding Window Mullion End Connector

STEEL REINFORCEMENT SERIES
DURAMAX PVC Sandwich Panel

- Available in standard sizes
- Option of sandwiching Glass panels to create see through mechanism
- Different finishes possible (Wooden like)
- Various designs possible for the Doors (Architectural)
- Efficient Silent mechanism, Fully insulated.
- Can be adapted to any security systems 3 point code security.
- Can be accessorized easily
- Multiple door installation possible (3 door 4 door etc)

**Available Panel Sizes**

<table>
<thead>
<tr>
<th>UPVC Skin Thickness</th>
<th>Thickness of EPS/XPS Insulation</th>
<th>Total Panel Thickness</th>
<th>Standard Size</th>
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</thead>
<tbody>
<tr>
<td>1.00 mm</td>
<td>22 mm</td>
<td>24 mm</td>
<td>1220 x 2440 mm</td>
</tr>
<tr>
<td>1.50 mm</td>
<td>21 mm</td>
<td>24 mm</td>
<td>1220 x 2440 mm</td>
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<tr>
<td>1.00 mm</td>
<td>16 mm</td>
<td>18 mm</td>
<td>1220 x 2440 mm</td>
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</table>

Note: The decorative glass design shown are only for fabrication options

Available range of design with specifications and size details
## Our quality standards

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>VALUE/RESULT</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vicat Softening Point</td>
<td>°C</td>
<td>83</td>
<td>BS EN 12608</td>
</tr>
<tr>
<td>Charpy Impact SV</td>
<td>KJ/m²</td>
<td>23.52</td>
<td>BS EN 12608</td>
</tr>
<tr>
<td>Tensile Impact</td>
<td>KJ/m²</td>
<td>828.7</td>
<td>BS EN 12608</td>
</tr>
<tr>
<td>Heat Reversion</td>
<td>%</td>
<td>1.53</td>
<td>BS EN 12608</td>
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<tr>
<td>Difference in reversion between individual faces</td>
<td>%</td>
<td>0.01</td>
<td>BS EN 12608</td>
</tr>
<tr>
<td>Heat aging Test at 150 °C, 30 min</td>
<td>-</td>
<td>No bubbles, cracks or visual delamination</td>
<td>BS EN 12608</td>
</tr>
<tr>
<td>Modules of Elasticity</td>
<td>Mpa</td>
<td>2349</td>
<td>BS EN 12608</td>
</tr>
</tbody>
</table>

### ARTIFICIAL WEATHERING TEST

- **Irradiance:** 0.55 W/m²
- **Temperature:** 70 °C
- **Hrs-Exposed, Light/Dark:** 14/10
- **Total Hrs Exposed:** 544/430

- **Xenon colour fastness**
  - \( s L^* \) = 94.51
  - \( s a^* \) = 0.83
  - \( s b^* \) = -2.11
  - BS EN 12608
- **Colour Fastness**
  - Grey Scale
  - 4 to 5
  - BS 1006
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