

B2B PURCHASE

for Project Procurement

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SOUND selections

An overview on some
great choices for ceilings
and acoustical walls

PAVING
a new era of growth



Lingel: Creating revolution in fenestration

Established in 1959 in Ellwangen, a small town in Germany, Karl Lingel Fensterbau GmbH and Co. KG has come a long way in establishing itself as one of the leading manufacturers of high quality doors and windows in Europe. Lingel set foot in India in 2006, and has already become a name to reckon with in this short period of its presence in the country.

Lingel takes pride in the sound background of building-construction projects, and cutting-edge technology and services. The products offered play a critical role in helping conserve energy in a world that is growing in population, with ever-increasing demand for water, food, shelter, sanitation, energy, health services and economic security.

Collaboration

Lingel is using profiles in collaboration with the German company Dimex which designs special profiles customised for the Indian environment, and in tune with consumer needs of the country.

The UPVC material required for India is different to German profiles. In Germany, the company has to focus on

the cold climate, whereas in India Lingel has to take care of the extreme summer heat, along with the high UV retention of the sun.

To give the profiles a long life time and protect them from colour fading, the percentage of titanium oxide is much higher compared to the German profiles. Lingel provides the exact raw material mix if requested by the customer.

Lingel along with Dimex:

- 1 Lingel, along with Dimex creates a wide range of unique products with unmatched designs. For sliding systems, the company provides the choice of one track to 5 track systems and a glass thickness of up to 24 mm. The casement systems are able to carry the weight of each panel up to 120 kg and maximum glass thickness of 36 mm.
- 2 Lingel also uses all its accessories and profiles from the sliding sections in combination with casement system, and in any required profile combination. For

example, all glazing beads from sliding system can be used in casement system and vice-versa.

- 3 All the profiles have 2.5 mm of outer well thickness, whereas competitors of Lingel are working with 1.8 to 2 mm thick sections.
- 4 For the window hardware, the company develops a range of hardware under its own brand, Lingel. This hardware is made out of SS304 (stainless steel) and performs perfectly under extreme Indian weather conditions, including in coastal areas where high humidity leads to corrosion on ordinary hardware within a short span of time.
- 5 Being a certified company under ISO 9001-2008, Lingel maintains the quality control of all the raw material purchase, the same way Lingel does it in Germany.
- 6 As per research, 25 per cent of the overall performance of Lingel depends on the usage of right materials, another 25 per cent

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on state-of-the-art factory setup and machinery, another 25 per cent on an organised installation done by well-trained technicians. The remaining 25 per cent is purely based on the service provides to the customers, which has been the key reason of success in the last 8 years.

UPVC vs Traditional window materials

- UPVC does not let in heat from outside in summers, and does not let the inside heat get out of the room during winters.
- Since 25 per cent of the total energy in a building is lost through the windows, using UPVC windows is the wiser option as it can bring down energy loss anywhere between 10 per cent and 15 per cent.

- UPVC casement sections are dust proof, water proof and along with the right glass, sound proof as well. The material is also termite proof, does not rust, crack, chip or fade in colour. Hence, UPVC windows are very durable and require minimum maintenance.
- One key point with UPVC windows is the use of gaskets between the frame and the sashes, similar to the way car doors and refrigerators are sealed with gaskets.
- In comparison to wooden windows, there is no swelling of the material during the monsoon season.
- On the aesthetics front, UPVC windows are very stylish, elegant and provide maximum security to a home.

Conclusion

Almost 50 years ago, Lingel set in motion



an individual approach to help meet the challenges of sustainable development. Lingel is extremely happy that this effort is now delivering real progress worldwide. ■