

UWDMA TECHNICAL MEETING – 15 TH SEPTEMBER 2017, HOTEL AVASA, HYDERABAD		
Members Invited	Rajesh Chawla, Mahesh Londhe, Farid Khan, Ullas Guiliani, Y P Singh, Mario Schmidt, Prabhakaran, Ayush (NCL Wintech)Muralidharan, Satish Kumar, Vijay Nawariya	
Special Invitees	Nil	
Members Present	Mario Schmidt, Satish Kumar, Y P Singh, Prabhakaran, Ayush, Vijay	
Points discussed		
1	NBC 2016	
2	Window Label Program	
Points discussed		
Topic / Facilitator	NBC 2016	Action by
SK	<p>Satish updated the group, the points mentioned in the NBC 2016:</p> <ol style="list-style-type: none"> 1. No differentiation for Windows / Doors. The NBC focuses on Glazing and Facades and Openable Windows in them. Sliding Doors are mentioned in one line that cyclic water test is optional. 2. Water Penetration – The rate of water spray shall be 3.4Litre/min.m2 for a period of 15mins. The spray shall be located at 400mm from the glass and 700mm center to center horizontally and vertically. The pressure differential upto 35m height – 300 Pa, 35m to 70m – 450 Pa, above 70m – 600 Pa. 3. Air infiltration – 1.5m3/hr.m2 for fix area and 2m3/hr/m2 for openable panel. Pressure differential for buildings upto height 70m – 150 Pa and beyond 70m – 300 Pa. For store front, openable windows, sliding windows, sliding doors and doors the pressure differential shall at +150Pa. 4. Deflection = Span /175 or 19mm for Single height glazing whichever is less. 5. Double height glazing (big doors) upto 4110mm 	

	Span/175 and more than 4110mm then Span/240mm	
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Topic / Facilitator	Conclusion – NBC 2016	Action by
SK	<p>The above points were discussed and following points were derived.</p> <ol style="list-style-type: none"> 1. Letter to be sent to NBC regarding UWDMA and the test standards for UPVC Windows/Doors. 2. As we have made a detailed guideline on UPVC window fabrication, we should push for the same. The NBC doesn't detail the tests or its pass criteria 3. Water penetration for Sliding Doors and Windows – 300Pa is too high and around 90% of the windows currently installed would fail. The test is silent on windows which have a ledge or side covering. Balcony doors which are recessed and not fully exposed. So it was suggested to adopt UWDMA Guideline. 4. Span /175 is agreeable. It was also discussed that for Sliders considering combined sash as 1 and obtained combined moment of inertia is wrong. 5. Air infiltration for Sliders is not acceptable. For Casement windows or doors with threshold it is ok. 	SK/MS
Topic / Facilitator	UWMDA Window Label Program	Action by
SK	1. Detailed in annexure	SK/MS

UWDMA Window Label Program

With RERA, the Developer needs to maintain the Building for 5 years which in turn means, he has to use good quality windows for lower maintenance costs and lesser customer complaints. How / Who defines a good quality window?

UWDMA has defined parameters for Good Quality Profile in its application form itself. Good Quality window production is defined in UWDMA Guideline. Now we move a step further – Labelling Program.

Why Label – Most products we see today have stickers showing their capacity or performance so that the customer can understand how good it is. UWDMA Labelling program strives to educate customers and industry to put in practice well defined procedures to ensure benefit to Developers by reducing maintenance cost, easy selection of windows for Architects bases on 8 selection criteria – profile, air tightness, water tightness, wind resistance, accidental load, operational forces, thermal and acoustic performance and to the customer – peace of mind.

How?

Profile – Test reports needed are already published by UWDMA.

Window Performance Tests – theoretical calculation should be first followed by Type Tests. UWDMA will conduct a survey amongst Architects / Developers for the Different Type of Windows / Doors and arrive at a combination of windows / doors and select 1 or 2 types from the family which would be considered for Type Test. All items used in the Type Test will be listed down in the report. Incase of any change in reinforcements or reduction in locking points, the performance may vary. If not the Family or Group could then get the same label.

PRODUCT FAMILY - 1

DESCRIPTION of TEST SPECIMEN: Tilt & Turn window with fixed part

WINDOW TYPES	TEST SPECIMEN	PROFILE APPLICATION	ITT REPORT (Page no)
		Zendo profiles except 12600, 12604, 12610, 12615	10.16
		all the profiles in the Zendo system	10.19

* Tilt & turn window applications cover the single openings,

* In the french opening windows, transom/mullion profile must be used.

PRODUCT FAMILY – 1

DESCRIPTION of TEST SPECIMEN: Double Rails Sliding Window

WINDOW TYPES	TEST SPECIMEN	PROFILE APPLICATION	ITT REPORT (Page no)
		Sliding windows (fabricated with 12660, 12664, 12665 and 12671)	11.11
		Sliding windows (fabricated with 12660, 12664, 12665, 12670 and 12671)	11.14

Sample Labeling.

WINDOW PERFORMANCE		
C.U		Resistance to Windload (EN 12210) - the deflection of frame elements shall be determined by calculation or test. Listed in UWDMA Standard 8.3
Conforms to UWDMA Standards		Water Tightness (EN 12208) - the limit of water tightness as per test and classified as per UWDMA Standard 8.2
Name and Address of Manufacturer		Air Permeability (EN 12207) - It classifies the test results based on a comparison of the air permeability of the assembled window at positive and negative test pressures. Listed in UWDMA Standard 8.1
Resistance to Wind Load	C2 / B3	Accidental Load as listed in UWDMA Standard B2. 1KN/m2
Watertightness	5A	Operating Force required to open or Close the window/door - Listed in UWDMA Standard 8.5
Air Permeability	4	Thermal Transmittance as listed in UWDMA Standard Annexure D. Need input from Glass guys
Accidental Load	Passed	Acoustic Performance - Listed in UWDMA Standard - Annexure E. Need input from Glass guys
Operating Forces	1	
Thermal Transmittance		
Acoustic Performance		