

# **Installation Training Report**

Subject:Installation training of Schuco Male-Female Unitized Curtain Wall PMU @ ExovaProject:Rafal Living Tower, RiyadhCustomer:AMG - Advanced Manufacturing for Metal & Glass Co, DammamReport by:Motasem Husni, Customer Service Manager, Schüco Middle EastDate:June, July 2018CPS Number:1520929



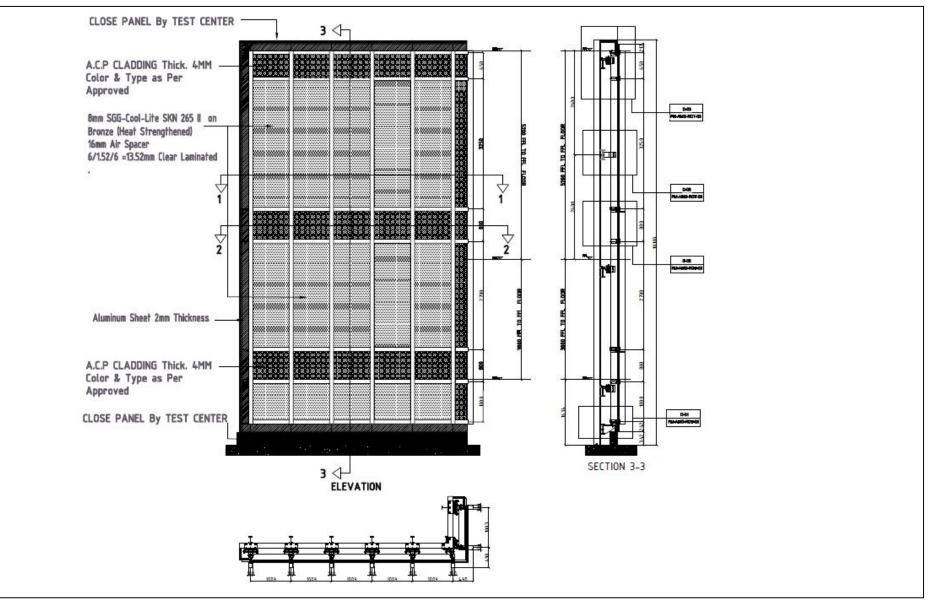
## Rafal Living Tower, Riyadh





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#### The installation works: the PMU





## The installation works: The panels



The panels



The installation of the starter gutter profile





At the bottom joint of the panels, additional coupling profiles are added in the starter gutter for more rigidity of the installed panels (yellow arrows)

Foam material was added under the joint of the panels for better airtightness (blue arrow)





The starter gutter profile was filled with water to check the leakage from the fixing.

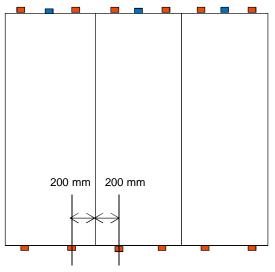
The top of the panels was also tested in the same way.





Notching the continuous gasket 200mm (Red) offset of the joint between the panels. 2 no. / panel The starter gutter profile has drainage slot under the center of each panel.

The top of the panels has 1 drainage slot in the center (Blue) The continuous gasket on the top of the panels is notched in the same way like the gutter





### The installation works: end dams



The sides of the starter gutter and the top of the panels must have end-dams





The installation works: The installation and aligning of the panels

Installing and aligning the panels



## The installation works: top joints



The top joints of the panels are sealed with coupling profile and Schuco Flex



## The installation works: top joints



All top joints of the panels are sealed with coupling profile and Schuco Flex

The outer joints (in addition to sealant) are sealed with Schuco Butyl tape.





The gasket joints are sealed with Schuco Flex



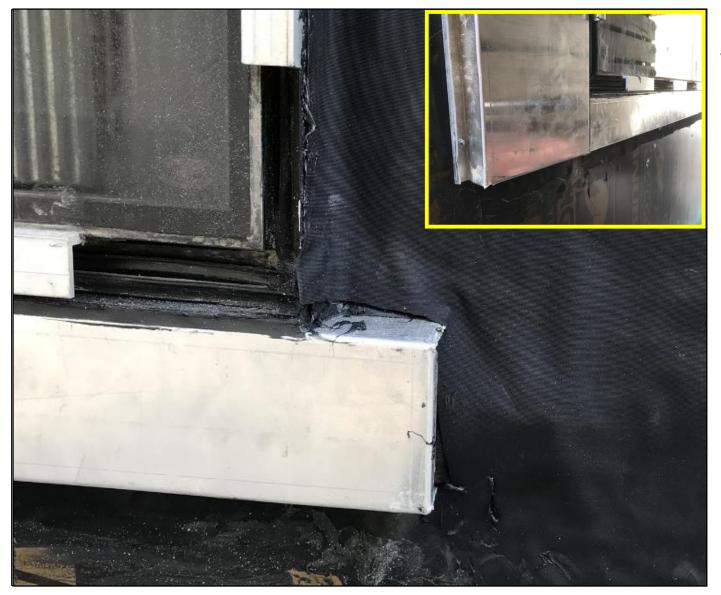
## The installation works:



Installing all panels



## The installation works: WPM and flashing



Fixing the water proofing membrane and the flashing





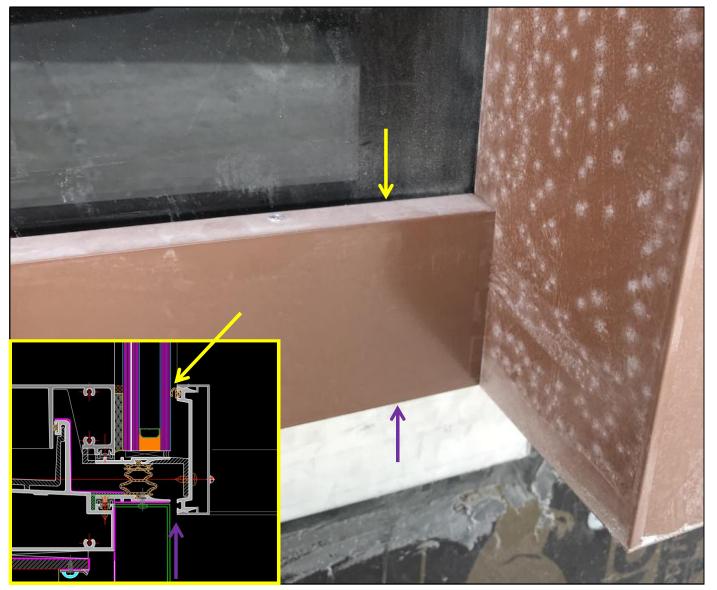
#### The installation works: decorative features

Fixing the vertical decorative features and the horizontal covers

The bottom covers have drainage holes



#### The installation works: horizontal cover caps



The horizontal pressure plate profiles at the stack joints have only the top line of the gasket (yellow), the bottom line has no gasket (blue).





Sealing the bottom joints with Schuco Flex





During the first static water test, there was water leakage, coming from the sides of stack joints at the end dams (dashed line)

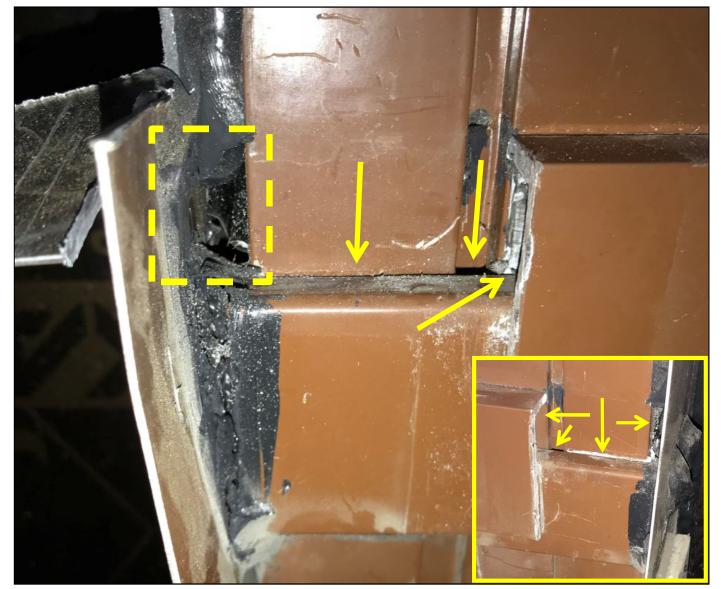




Cutting the skirting profile to check the water leak

This was done at all stack joints end dams, on right and left sides





The stack joints and the profiles were not sealed properly and the open joints allowed for air & water to come in freely





The open joints were sealed with Schuco Flex





The open joints were sealed with Schuco Flex and the skirting cut pieces were re-sealed back to the joints



#### The installation works: spandrel area



During the Main test, a big air leakage was observed through the drainage/ ventilation slots at the sides of the profiles at the spandrel area. Due to uninstalled back pan sheets, these areas were not sealed to prevent the air leakage.



#### The installation works: spandrel area



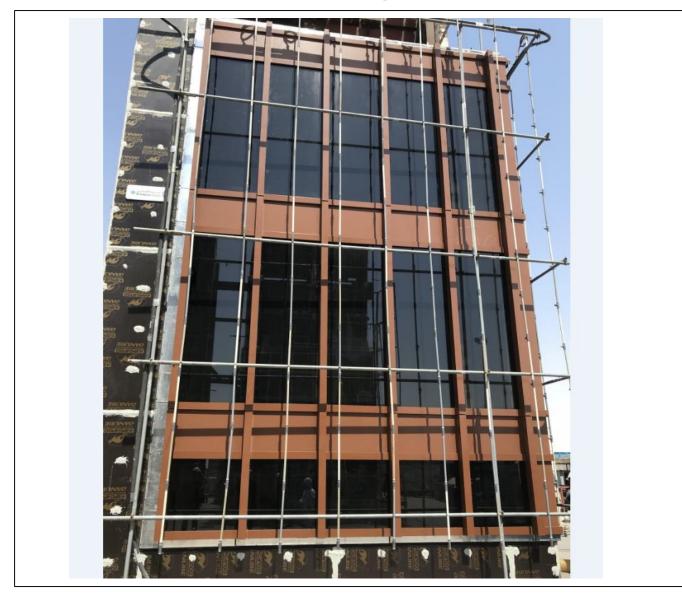
The air leakage was terminated by closing these slots with Schuco butyl tape.

This enhanced the performance of the PMU and air leakage was not noticed any more.

Only 2 slots were left open during the water test as requested by the third party MFT.

No water came through during all water tests.





## The installation works: The PMU during the main test

All tests were successfully carried out and no failure appeared in any stage of the testing process.



## 4. Attendees List

#### Installation Training Sign-in Record

CPS No.: 1520929

Project Name : Rafal Living Tower, Riyadh KSA

Location : Dubai

System: Male – Female UCW

Partner: Advanced Manufacturing for Metal & Glass Co.

NO.	Name	Company	Position	Note
1	Motasem Husni	SCHUCO M.E	Customer Service Manager	
2	Hameed Jalaludeen	AMG	Project Manager	
3	Dumaguing Sandy	AMG	Technician	
4	Picardal Frederic	AMG	Technician	
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## THANK YOU

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