Installation Guidelines for pre-fabricated Trespa Meteon panels
(drained and back ventilated rain screen cladding)

General:

1. Aluminum sub-framing, panel and sub-framing fasteners and anchors to comply and be installed in accordance with specifications. Sub-framing to be installed in accordance with the shop drawings and/or manufacture's recommendations.
2. Sub-framing anchors should not interfere with and conform to the guidelines of weather barrier manufacture and/or specifications.
3. If the system does not allow integral shimming, shim should be done behind the vertical sub-framing. This will create a level and plum plane for the panels.
4. A continuous ventilation cavity of 1" shall be present behind the façade cladding. This ventilation cavity can be reduced locally to 1/4" per manufacturers written recommendations.
5. Ventilation inlets and outlets shall allow for uninterrupted vertical airflow. Every linear foot shall have at least 2.36 inches^2 / foot of ventilation opening at inlets at every uninterrupted vertical cladding section.
6. Sub-framing anchor distances shall be in accordance with shop drawings or engineers recommendations.
7. Sub-framing anchors must engage in intended support system (steel stud, backing plate, etc.).
8. Individual sub-framing rails must allow for independent thermal expansion and contraction.
9. Caution shall be used at areas of discontinuity (expansion joints, flashing details, anchor penetration points, etc.) At no point can sub-framing be placed over expansion joints. Dissimilar load bearing wall assemblies will require a break in the sub-framing assembly. A joint in the sub-framing shall always happen at a panel joint.
10. Make sure in case of metallic and natural colors that panels have the proper orientation, as indicated on the panels and / or shop drawings.
11. Establish a level starting position and use removable shims and/or blocking when setting the panels to ensure proper joint spacing. Joints shall be equal or in accordance with specifications and/or shop drawings.
12. If joint closures are specified they shall not hinder the free movement of the panels or the sub-framing.

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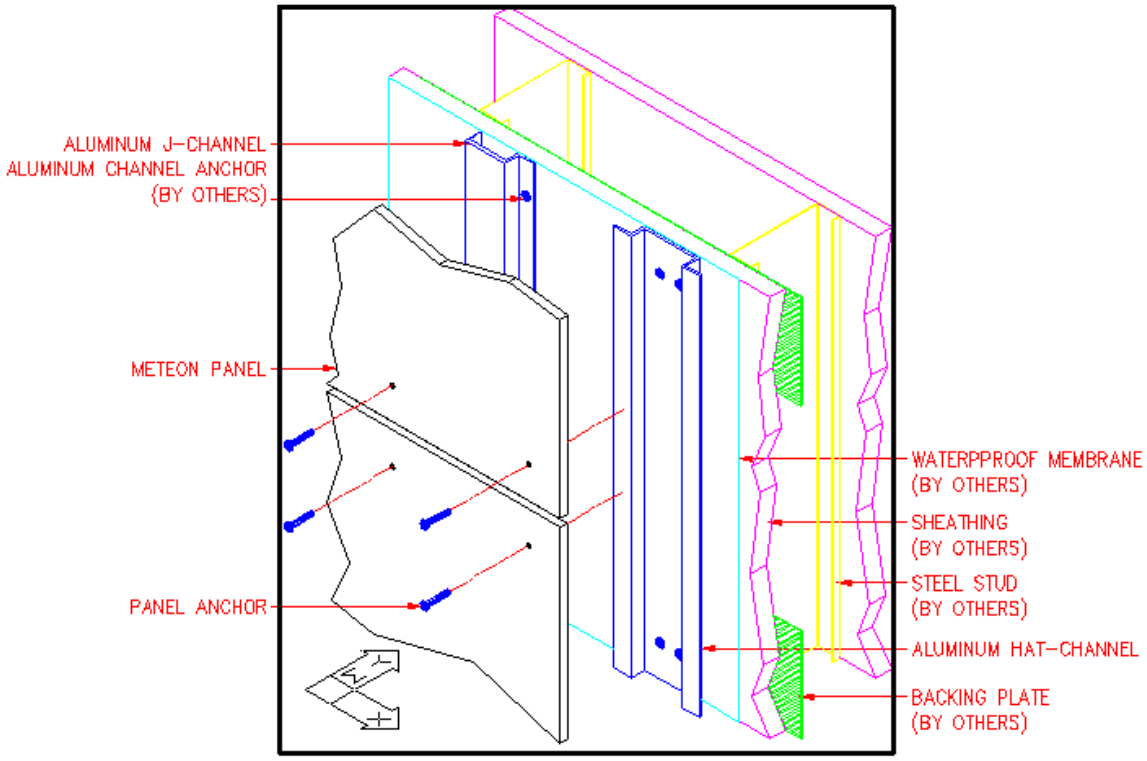
Exposed fastening with panel fasteners or panel rivets (TS 100 or TS 700) :



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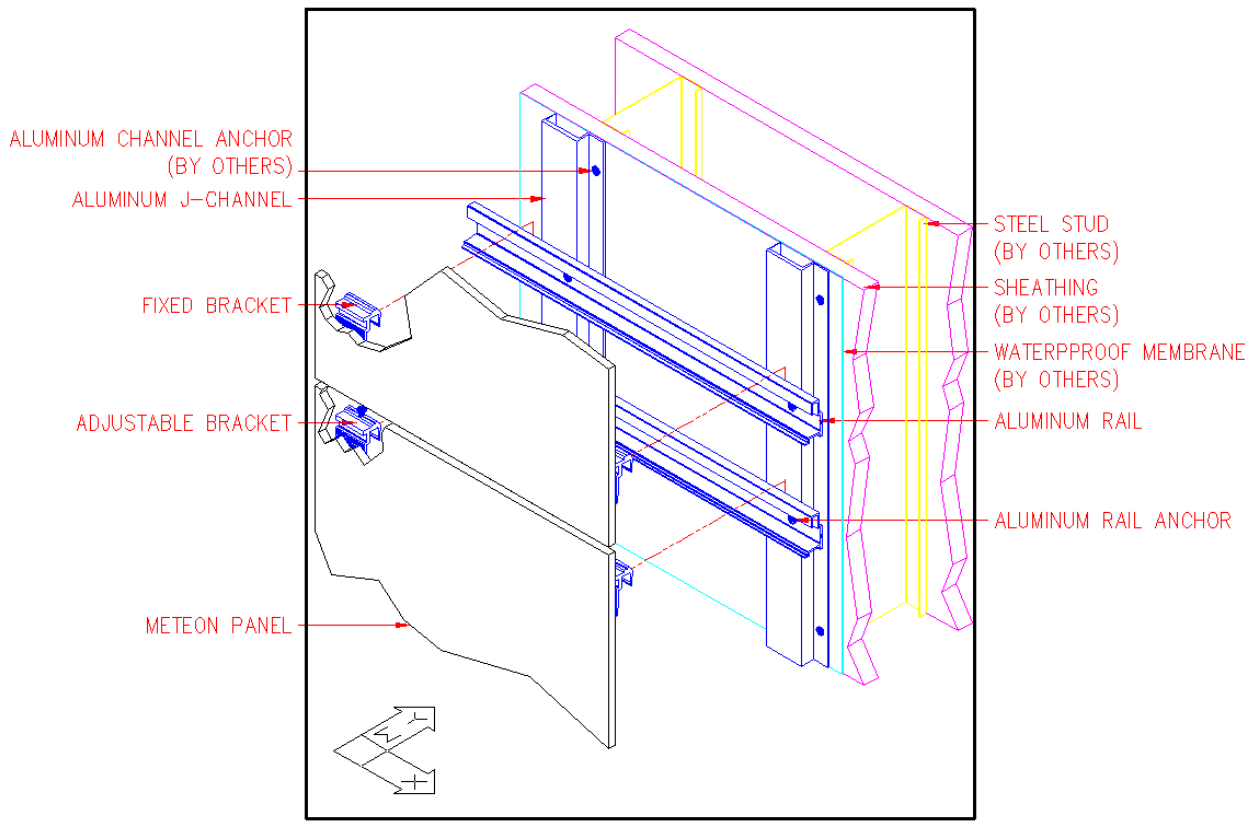
13. Place panel on wall, secure it's position.
14. To ensure that the fastener is properly centered the supplied centering tool must be used. First attach the fixing point prior to attaching the sliding points. Fixing points shall align with corresponding panels as indicated on shop drawings. Use approved panel anchors. Then attach all remaining fasteners (sliding points in pre-drilled panel holes using the supplied centering tool to ensure a centralized position in their hole).
1. Make sure all fasteners are centralized in their holes. In the case of panel fasteners, do not over tighten the panel fasteners. In case of rivet fastening use setting gauge for all sliding points.
2. For panel fasteners the sliding point shall be 0.332" and fixing point shall be 0.221". The sub-framing fastener hole shall be 0.1875".
3. For panel rivets the sliding point shall be 0.394" and fixing point should be 0.200". The sub-framing rivet hole shall be 0.200".
4. If applied, the protective foil and labels shall be removed from the face of the panels.
5. If applicable, clean the cladding per manufactures recommendations (non-abrasive).

Concealed fastening using brackets (TS 200):



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1. The brackets are fastened to the rear side of the panels at positions in accordance with the engineering and shop drawings. Adjustment-brackets are set at the top row in most outside position; the fixing bracket is set at the top row in the middle position (if not indicated different in the shop drawings) Use approved panel inserts. Make sure all brackets are set in 'top-up' position, no bracket shall be fastened twisted or be capable to freely rotate after fastening.
14. The façade cladding is installed from bottom up to top. Place panel on wall. Adjust the panel position in accordance with the grid/joint lines by using the adjustment-screws in the outer brackets of the top-row.
15. Secure the panel position by tapping the pre-assembled fastener through the center top-row bracket and it's supporting rail.

16. If applicable, install the vertical joint closures.
17. If applied, the protective foil and labels shall be removed from the face of the panels.
18. If applicable, clean the cladding per manufactures recommendations (non-abrasive).