



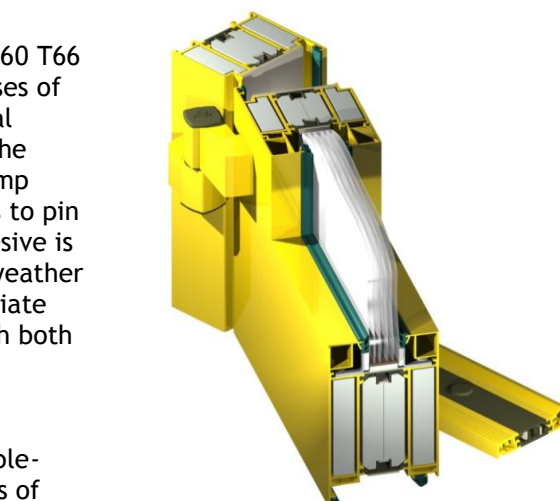
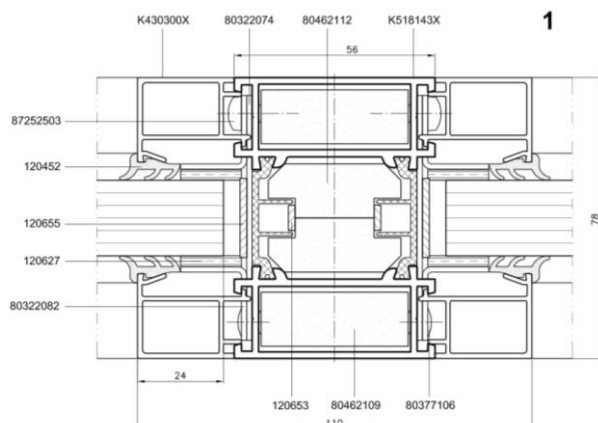
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Aluprof MB-78EI

The profiles are extruded from aluminium alloy 6060 T66 to EN 755, EN 573 and EN 515. The system comprises of sections formed typically with a polyamide thermal break system and specific fire retardant inserts. The system range is of a typical 45° mitre and dual crimp construction with alternative or additional options to pin secure the corner joints. A high performance adhesive is used in the general assembly process, creating a weather tight joint of further enhanced strength. Intermediate transoms are fixed using muntin clips fixed through both ways onto mullion and transom.

The MB-78 EI firewall system is used to construct exterior and interior firewalls with single and double-leaf doors, and has achieved fire resistance classes of EI15, EI30, EI45, or EI60, according to PN-B-02851-1:1997 and PN-EN 13501-2:2005. Intumescent strips and fire retardant sealants are used in the system assembly configured according to the relevant class.

The constructional depth of the profiles is 78mm. The profiles are characterised by a low overall heat-transfer coefficient, U_f , due to the use of, among other things, special developed 34 mm wide thermal breaks. The system allows glazing with any standard fireproof glass pane of the appropriate class (infill thickness between 8 and 49 mm).



The system is fully drained and pressure-equalised, complying with EN12208 and EDN1027. All joints are sealed against the ingress of water with weather strips and glazing gaskets being produced from EPDM or PVC Nitrile in accordance with BS4255.

* For fire rated performance curtain wall please see our MB-SR50EI.

Horizontal Window Section of EI45 & EI60

Overall heat transfer coefficient:
 U_f from 2.65 W/m²K

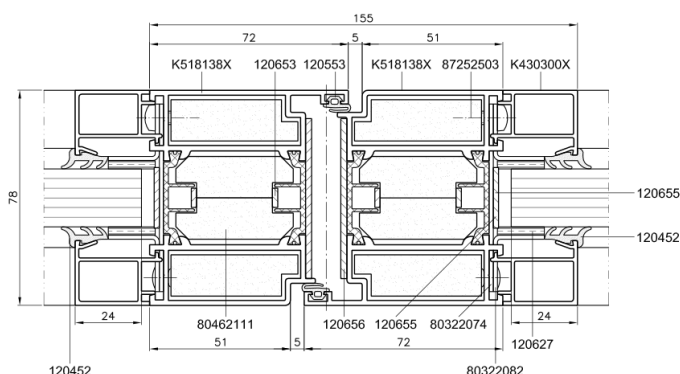
Water tightness:
Class E1200, EN 1027:2001;
EN 12208:2001

Acoustic insulation:
 R_w up to 40 dB

Air infiltration:
Class 4, EN 1026:2001;
EN 12207:2001

Resistance to wind load:
Class C5, EN 12211:2001
EN 12210:2001

Technical approvals and certificates



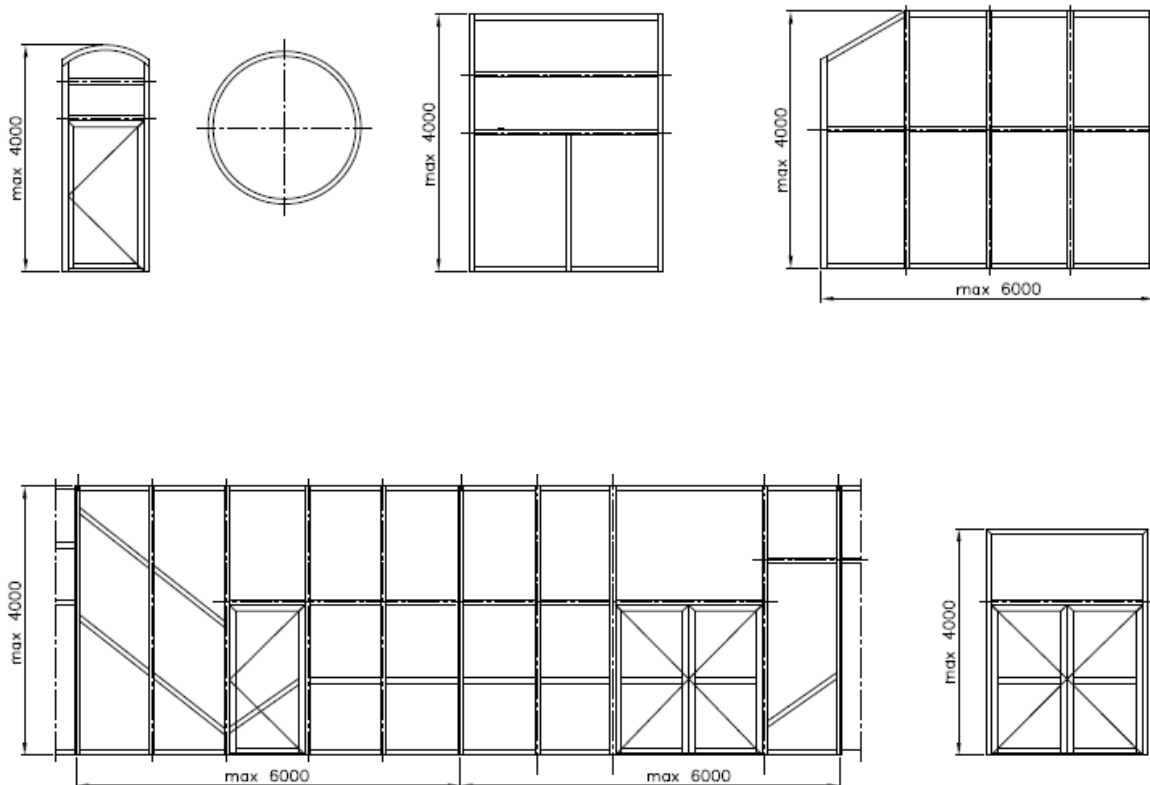
Horizontal Door Section.



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The above examples show fire screens on stairwells in office blocks, fitting in with the modern design of the building but yet still providing the necessary 60 minutes insulation. The below diagram shows the versatility of the system.





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Before and after pictures from fire tests carried out on MB-78EI.



Left and Right - Shows our MB-78EI screens in place for fire testing for integrity and insulation.



Above and left - A test at the Fire Research Laboratory of the Department of ITB. The picture shows the test sample being measured for bending under the influence of high temperatures (over 900° C)

Right - This picture was taken after completion of testing in the laboratory at the Fire Research Laboratory of the Department of ITB. View after 60 minutes from the simulated fire.

