

APTON CERTIFICATION SCHEDULE

for

APTON GLAZED PARTITION SYSTEM UTILISING TWIN-GLAZED PANELS INCORPORATING PYROBELITE EW30/10 FIRE RESISTANT GLASS

This Schedule should be read in conjunction with Certificate No. **IFCC 1163**. It relates to the performance of Apton partition systems in accordance with BS 476-22:1987.

1. The following partition configurations are approved:

- Apton twin-glazed partitions utilising 10mm Pyrobelite EW30/10 fire resistant glass and 6mm toughened glass

2. The following options are approved for the above configurations

- i) Partitions incorporating the twin-glazed referred to in Section 3 of this Schedule
- ii) Size variations for partitions with regard to the 30 minute integrity requirements of BS 476-22:1987



Director, IFC Certification

Issued: 15 December 2015

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3. The following steel profiles, and frame components are approved

3.1 Apton APX/AHP Series components (steel frame profiles etc.)

The Apton APX/AHP profiles are manufactured from galvanised mild steel folded into profiles to suit their function within the frame system. These profiles have steel thicknesses ranging from 0.5mm to 3mm as denoted in the following table.

Series Code	Section Type	Dimensions (mm)
APX-1-00-3000	Head track – U-section	50 x 50 x 1.5
APX-1-01-3000	Base track – U-section	48 x 21 x 1.2
AHP-1B-Rumaillah-S101	Inner base track	50 x 92 x 1.2
APX-1-05-3000	Studs – I section mullions	48 x 38 x 0.55
APX-1-60-SC	Levelling platform – bolt adjusted	75 x 20 x 0.55
AHP-FR30-HG-100	Glazing head section	88 x 30 x 0.7
AHP-FR30-BG-101	Glazing base section	89 x 20 x 0.7
AHP-FR30-VT-3000	Glazing vertical trim	28 x 20 x 0.8
AHP- FR30-VG-103	Vertical glazing kit	57 x 22 x 0.7

Table 1: Apton APX/AHP Series steel frame profiles etc.

3.2 Intumescent tape, glazing seals & packers

Material code	Description	Dimensions (mm)
58PY 10x2	FG Pyrotape fitted between glazing head section and head track, and between ceramic tape and vertical glazing kit	10 wide x 2 thick
M152TAPE	Ceramic tape fitted to the profile of glazing head, base and vertical glazing kit on unexposed face	10 wide x 3 thick
APL09-P007	Glazing seal fitted to the profile of glazing head, base and vertical glazing kit on exposed side of toughened glass	8 wide x 5 thick
AHP-FR30-CaIS	Calcium silicate blocks supporting bottom edge of glazed panels	100 long x 14 wide x 6 high (thickness)

Table 2: Intumescent & sealing materials

Figures 01 & 02 show sectional details of the Apton glazed partition system.

3.3 Glazed Panels

The Apton glazed screens are installed with twin-glazed panels comprising toughened glass, 6mm thick, a 76mm thick air gap, and 10mm thick Pyrobelite EW30/10 fire resistant glass manufactured by AGC Flatglass. The total twin-glazed panel thickness is 92mm.

The IGU panels are installed with the toughened glass layer on the fire exposed side and the Pyrobelite EW30/10 glass on the unexposed side.

The maximum glass panes dimensions approved are 900mm wide x 2600mm high.

3.4 Installation and supporting construction

The following glazing media system is approved (See Table 2 herein):

- Ceramic tape fitted to both sides of the Pyrobelite EW30/10 glass
- Glazing seal fitted to the exposed-face toughened glass

The glass panels are positioned on calcium silicate setting blocks with dimensions 100mm long x 14mm wide x 6mm thick. The centre of the setting blocks should be positioned at between 100 and 150mm from the glass pane corners.

The Apton glazed partitions may be fastened directly to the floor, structural soffit and a rigid supporting construction, e.g. concrete, blockwork or masonry.

Frame fastenings which are suitable for the construction substrate (e.g. expanding anchor bolts for concrete) should be used, with maximum fixing centres of 450mm.



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4. Approved partition sizes

The maximum glass panes dimensions approved are 900mm wide x 2600mm high. The maximum partition height approved is 2700mm high with an unlimited width between the building's structural support elements provided that a level and stable structural soffit is available to support the partition head track.

5. Supporting test data

The following fire test reports were referred to in the preparation of this certification Schedule:

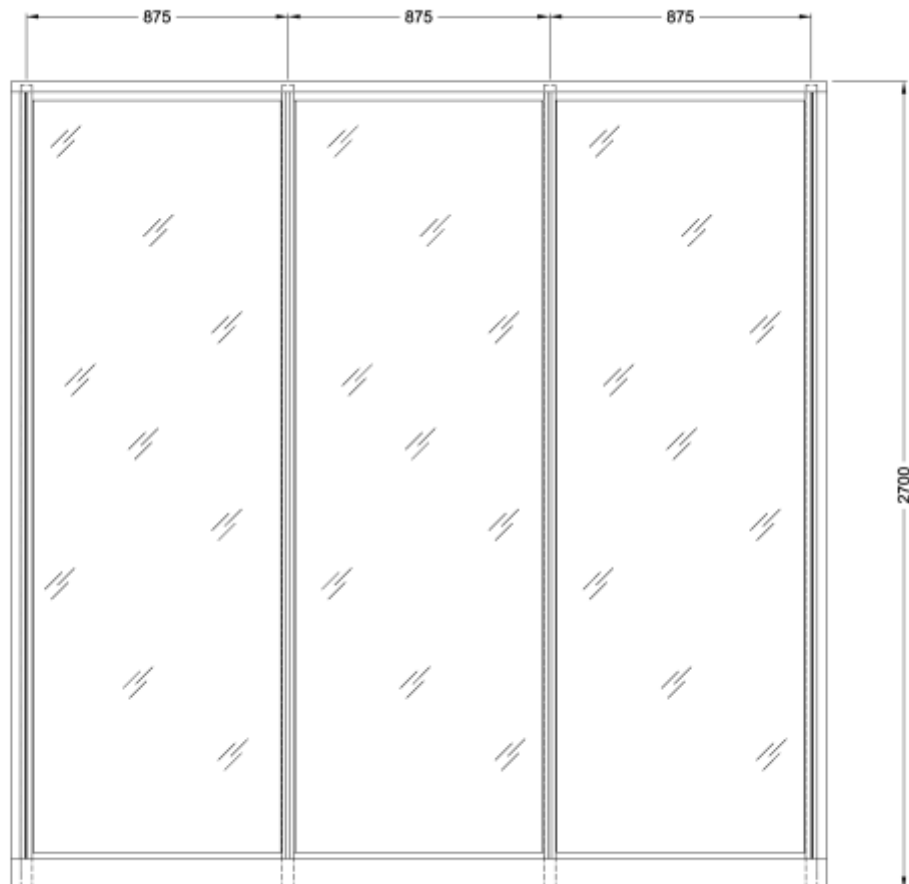
BM TRADA : BMT/FEP/F15136 in accordance with BS 476-22: 1987.

This test was performed at the fire laboratory of BM TRADA, High Wycombe, UK on 18 August 2015 on behalf of Apton Partitioning Ltd. The specimen also included a single-leaf hinged door fully glazed with Pyran S. The full description and test result for the door is not relevant to this assessment.

This report has been used to justify the use of glazed partitions comprising Apton APX series steel frames/trims and 90mm-thick twin-glazed panels with 10mm thick AGC Pyrobelite EW30/10 glass on the non-fire side and 6mm toughened glass on the exposed side. Full details of the steel framing and glazing system are as that described and tabulated in Sections 2.2 and 2.3 herein.

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**Figure 01: Elevation of typical glazed partition
(A three-bay example is shown)**

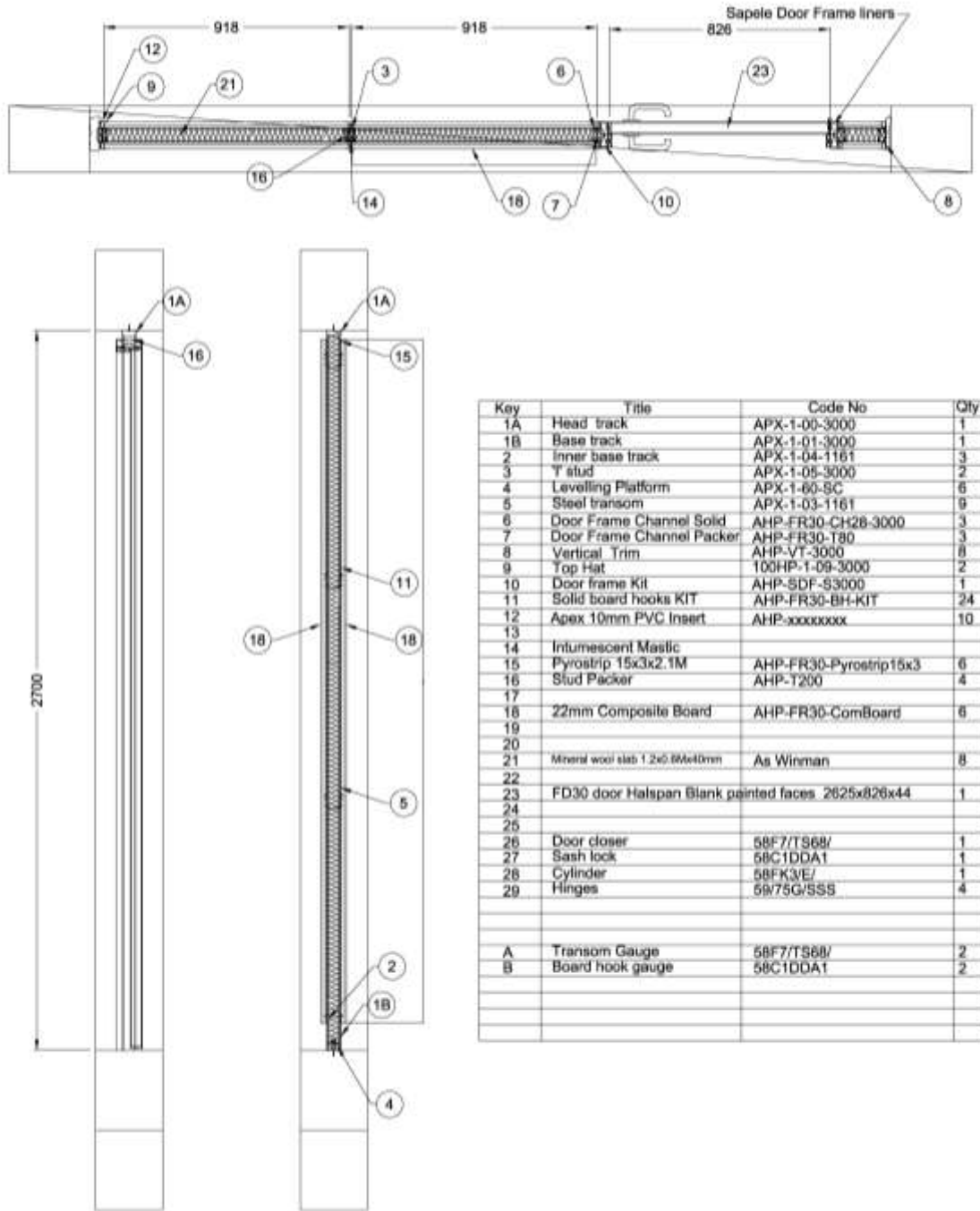


Figure 02: Sections and components of typical assembly