

# Appendix A

Certificate No: 2358-CPR-0218

Issue No: 2 Date: 08.07.2020

Product Description			
Product name		Aluprof MB-78EI	
Product definition	Class	Fire resistant external single leaf hinged door sets and openable windows	Fire resistant external double leaf hinged door sets and openable windows
Fire resistant side	E90 EI <sub>2</sub> 90 EW90 S <sub>200</sub> , S <sub>a</sub>	Both	
Frame - max width x height, mm ** Maximum height of door set with top light	E90	1400 x 2500 (3500)**	2500 x 2500 (3500)**
Frame - min width x height, mm	EI <sub>2</sub> 90	392 x 392	
Leaf - max are, m <sup>2</sup> *are of one door leaf (active or inactive)	EW90	3.5	
Frame - max width x height, mm ** Maximum height of door set with top light	E60 EI <sub>2</sub> 60	1350 x 3006 (4000**) or 1400 x 2500 (4000**)	2200 x 3006 (4000**) or 2500 x 2500 (4000**)
Leaf - max are, m <sup>2</sup> *are of one door leaf (active or inactive)	EW60	4.06	3.50
Frame - max width x height, mm ** Maximum height of door set with top light	S <sub>200</sub> , S <sub>a</sub>	1350 x 3006 (4000**) or 1400 x 2500 (4000**)	2252 x 2248
Frame - min width x height, mm		500 x 600	
Frame thickness, mm	E90	78	
Leaf thickness, mm	EI <sub>2</sub> 90 EW90	78	
Frame and leaf material	S <sub>200</sub> , S <sub>a</sub>	Aluminum	
Glass pane - max width x height, mm	E15 EI <sub>2</sub> 15	1260 x 2360	
Non-transparent panel - max width x height, mm	S <sub>200</sub> , S <sub>a</sub>	1200 x 2360	
Top panel and Side panel - max width x height	E30	2800 x 2380	
Glass pane - max width x height, mm * The specific dimensions depends of the glass brand/model	EI <sub>2</sub> 30 EW30	1075-2678 x 2832-2866 *	
Glass pane - max are, m <sup>2</sup> * The specific dimensions depends of the glass brand/model	S <sub>200</sub> , S <sub>a</sub>	3.45-3.60*	

<b>Non-transparent panel - max width x height, mm</b>		1100-1260 x 2250-2360
<b>Top panel and Side panel - max width x height, mm</b>		2800 x 2380
<b>Glass pane - max width x height, mm * The specific dimensions depends of the glass brand/model</b>		870-1358 x 2358-2360 *
<b>Glass pane - max are, m<sup>2</sup> * The specific dimensions depends of the glass brand/model</b>	<b>E60</b>	2.05-3.47*
<b>Non-transparent panel - max width x height, mm</b>	<b>EI<sub>2</sub>60</b>	
<b>Glazing beads</b>	<b>EW60</b>	
<b>Hinges per leaf</b>	<b>S<sub>200</sub>, S<sub>a</sub></b>	1200-1358 x 2358-2360*
<b>Installation foam/wool</b>		Aluminum profile
<b>Supporting construction</b>		≥ 2 for door sets/windows maximum height of 2600 mm and ≥ 4 for higher door sets/windows
<b>Top panel and Side panel- max width x height, mm</b>		Fire resistant PU foam or mineral wool
<b>Glass pane - max width x height, mm * The specific dimensions depends of the glass brand/model</b>		Rigid or flexible
<b>Glass pane - max are, m<sup>2</sup> * The specific dimensions depends of the glass brand/model</b>		1800 x 2350
<b>Non-transparent panel - max width x height, mm</b>		1260-1262 x 2360 *
<b>Glazing beads</b>	<b>E90</b>	2.97-2.98*
<b>Hinges per leaf</b>	<b>EI<sub>2</sub>90</b>	
<b>Installation foam/wool</b>	<b>EW90</b>	1100-1260 x 2250-2360*
<b>Supporting construction</b>		Aluminum profile
		≥ 2 for door sets/windows
		Mineral wool
		Rigid

Essential characteristics of door set and openable window Aluprof MB-78EI		
Classification characteristic	Class	Reference to classification and test evidence
Resistance to fire	Integrity – E	<p>Test reports:                      271 43913;                      10-000646-PB01-F12-01-de-01;                      Fires-FR-049-11-AUNE;                      LP01-01036/14/R166NP;                      LP03-01036/14/R166NP;                      LP-03555.9/09;                      LP-03555.10/09;                      LP-03555.11/09;                      LP-03555.12/09;                      LP-03555.13/09;                      LP-03555.14/09;                      LP-03555.15/09;                      LPP00-01036/11/R54NP;                      LBO-374/12;                      LBO-459-13;                      LBO-460-13;                      LP05-01036/15/R221NP;                      LPP01-01036/13/R130NP;                      IRES-MP-065-10-AUNE;                      LPP01-01036/13/R120NP;                      LBO-756/15;                      LPP01-01036/12/R81NP;                      EFR-15-V-000849B;                      EFR-14-V-003553B;                      EFR-14-V-003555B;                      EFR-14-V-003554B;                      EFR-14-V-003552B;                      EFR-14-V-003556B;</p>
	Integrity and thermal insulation – EI <sub>1</sub>	<p>LP09-01036/15/R221NP;                      15-000882-PR01                      (PB-C04-01-en-02);                      15-000882-PR02                      (PB-C04-01-en-02);                      LBO-842/16;                      LZP02-01036/16/R279NZP;                      EFR-15-V-000202B;                      EFR-14-V-003557B;                      FIRES-FR-103-11-AUNE;                      FIRES-FR-221-07-AUNE;                      LPP03-01036/13/R130NP;                      LP02-01036/14/R166NP;                      LP05-01036/14/R166NP;                      LP-03555.1/09;                      LP-03555.3/09;                      LP-03555.5/09;                      LP-03555.7/09;                      LP-03555.17/09;                      LP-03555.18/09;                      LP-03555.19/09;                      LPP00-01036/12/R59NP;                      LPP04-01036/12/R81NP;                      LPP03-01036/12/R81NP;                      LBO-514-14;                      LBO-553-14;                      RS-13/B-064;                      LP01-01036/15/R221NP;</p>
	Integrity and thermal insulation – EI <sub>2</sub>	<p>FIRES-FR-022-16-AUNE;                      EFR-16-V-000509B;                      LBO-827/16;                      LBO-851/16                      LPP01-01036/12/R130NP;                      LP09-1036/15/R221NP;                      LBO-1087/17;                      LBO-1216/18;                      LBO-1284/19;                      LBO-1285/19;                      LBO-1217/18;                      LBO-1151/18;                      LZP06-01036/17/R352NZP;                      LBO-1189/18;                      LPP03-01036/12/R130NP/e;                      LBO-827/16;                      LBO-1099/17;                      LBO-1137/18;                      LZP08-1036/17/R352NZP;                      LP-03555.1/19;                      LZP01-1036/19/R426NZP;                      LBO-1123/18;                      271 43105e;                      271 43598;                      FIRES-FR-029-10-AUNE;                      I-4123/17-1;                      I-4145/17-1;</p>
	Integrity and radiation - EW	<p>EW20;                      EW30;                      EW60</p> <p>Classification reports:                      1036/16/R267NZE                      1036.1/19/R436NZE/ENG</p> <p>Extended application reports:                      1036/19/R436NZE</p>
Smoke leakage	Smoke leakage at ambient temperature - S <sub>a</sub>	<p>Test reports:                      LP-792/03</p>
	Smoke leakage at ambient and 200 C° temperature - S <sub>200</sub>	<p>Classification reports:                      1036/16/R267NZE/e</p> <p>Extended application reports:                      NA</p>
Self-closing	C	<p>Test reports:                      NA</p> <p>Classification reports:                      NA</p>

**Remarks:**

The product description table already takes account of direct and extended field of application and does not always reflect actual tested product description.