

1. Unique identification code of the product-type: **IV 78, IV 92** – commercial version ENERGO78 window
2. Intended use/es: **Wooden windows and balcony doors designed for use in residential and public utility buildings.**
3. Manufacturer: **FAKRO PP Sp. z o.o.
ul. Węgierska 144a,
33-300 Nowy Sącz, Poland
fakro@fakro.pl**
4. Authorised representative: **./.**
5. System/s of AVCP: **3**
6. Harmonised standard: **EN 14351-1:2006+A2:2016**
Notified body/ies: **ift Rosenheim (0757), Instytut Techniki Budowlanej (1488)**

7. Declared performance/s:

| Essential characteristics | | Performance | | Harmonised technical specification |
|---------------------------|---|--|--|------------------------------------|
| | | IV78 | IV92 | |
| Glass unit | | 71U (4-12-4-12-4) | 66U (4-18-4-18-4) | EN 14351-1:2006+A2:2016 |
| 7.1 | Resistance to wind load | Class C3/B3 (1) | Class C3/B3 (1) | |
| 7.2 | Watertightness | Class 5A | Class 5A | |
| 7.3 | Dangerous substances | npd (2) | npd (2) | |
| 7.4 | Load-bearing capacity of safety device | Threshold value | Threshold value | |
| 7.5 | Acoustic performance | 35 (-1,-5) [dB] | npd | |
| 7.6 | Thermal transmittance Uw | 1.0 [W/m ² K] (3), (5) 1.1 [W/m ² K] (4), (5) | 1.0 [W/m ² K] (3), (5) 1.1 [W/m ² K] (4), (5) | |
| 7.7 | Radiation properties: - Light transmittance τ_v - Solar factor g | 0.74 0.53 | 0.74 0.53 | |
| 7.8 | Air permeability | Class 3 | Class 3 | |

(1) for the windows with the width of >1,80 m and height of >2,25 m: npd, (2) npd – no performance determined, (3) reference dimension (1.23 x 1.48 m) – calculation according to standard PN-EN ISO 10077-1, p. 6 (window made of pinewood), (4) reference dimension (1.23 x 1.48 m) – calculation according to standard PN-EN ISO 10077-1, p. 6 (window made of meranti wood), (5) for windows with cross bars the thermal transmittance (Uw) should be increased by 0,2 W/m²K according to EN 14351-1:2006+A2:2016 Annex J.

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed on behalf of the manufacturer by:

Ewa Łukaszczyk-Haslik

Nowy Sącz, 03/07/2019

