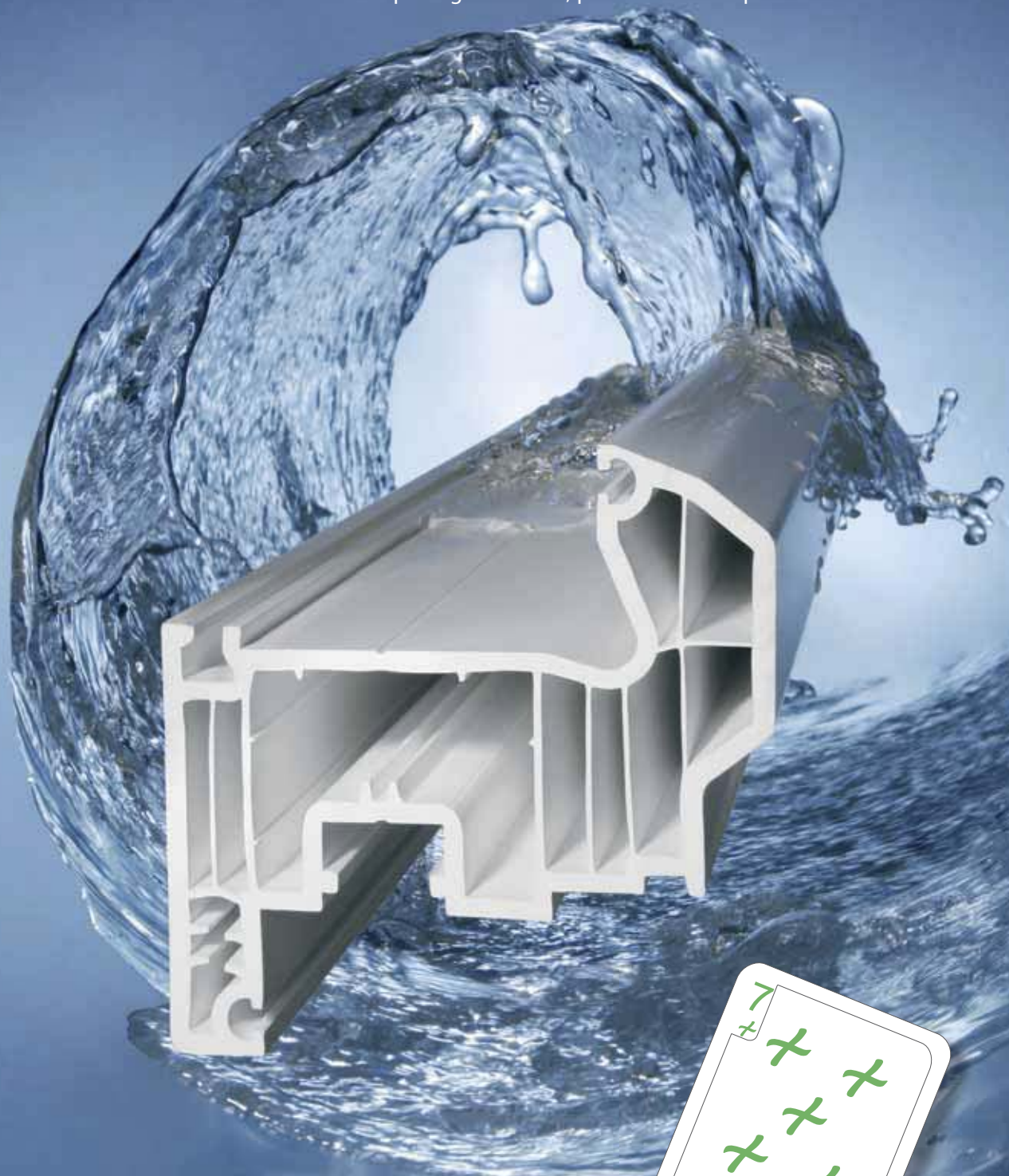


HORIZONT PS® penta plus

The new profile system from Czech Republic. The basic element for your new plastic windows. Seven chamber for low heat passage. Modern, perfect and compact.

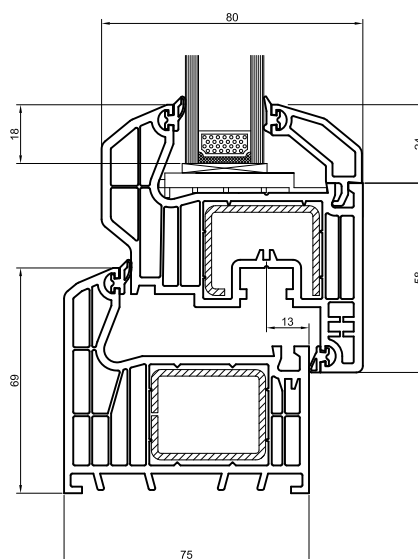


**The Real Ace
Among Windows**



The HORIZONT PS® penta plus profile system is the fourth generation of our profiles, and – compared to its predecessors – offers many significant technical improvements. One of the most important features of the new HORIZONT PS® penta plus profile system is its low heat passage (U_f), which reaches to values of $1,08 \text{ W/m}^2\cdot\text{K}$. This value ranks our profile with the best multi-chamber profiles available and creates technical prerequisites for minimizing the heat passage through the entire window.

The steel reinforcement is placed as far as in the fifth chamber, to prevent cooling of the interior side of the window due to low temperatures outside of the building. Side-to-side width is 75 mm for window frame, and 80 mm for window casement.



Up-to-date design with a soft weather moulding on the casement gives the window a modern and dynamic feel. Double-edged moulding on both frame and casement make the window construction look sturdier, yet still keeping neat shapes.

Rigidity of the window construction is assured by a chamber for placing a well sized reinforcement, as well as by six lateral partition walls. This enables for a perfect stiffness of the window, and – as a result – an easy handling of the window. Security is ensured by moving the fitting groove more to the centre of the assembly. With a proper fitting assembly with security elements, it creates an efficient obstacle against forcible trespass.

The HORIZONT PS® penta plus profile system is manufactured as an “A” class profile with wall thickness according to the EN 12 608 standard. Only primary material is used for production, without any harmful lead-based stabilizers. The system itself is variable, and allows for using several double and triple glazing units, from 24 to 40 mm thickness. You may find this option useful when thinking of windows with better heat or noise insulation, which requires glazing with a thicker double or triple glass.

Windows manufactured from this profile are certified according to the European standard EN 14 351-1.



Deep glass – deep glazing unit embedment

Deep Glass is a unique construction feature of plastic windows manufactured from the HORIZONT PS® penta plus profile system. It is based on elimination of the negative effects caused by the spacer in the double or triple glass unit. This spacer increases the risk of creating water condensation in the lower part of the glass unit on its interior side.

The HORIZONT PS® penta plus profile system is manufactured and delivered by:
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