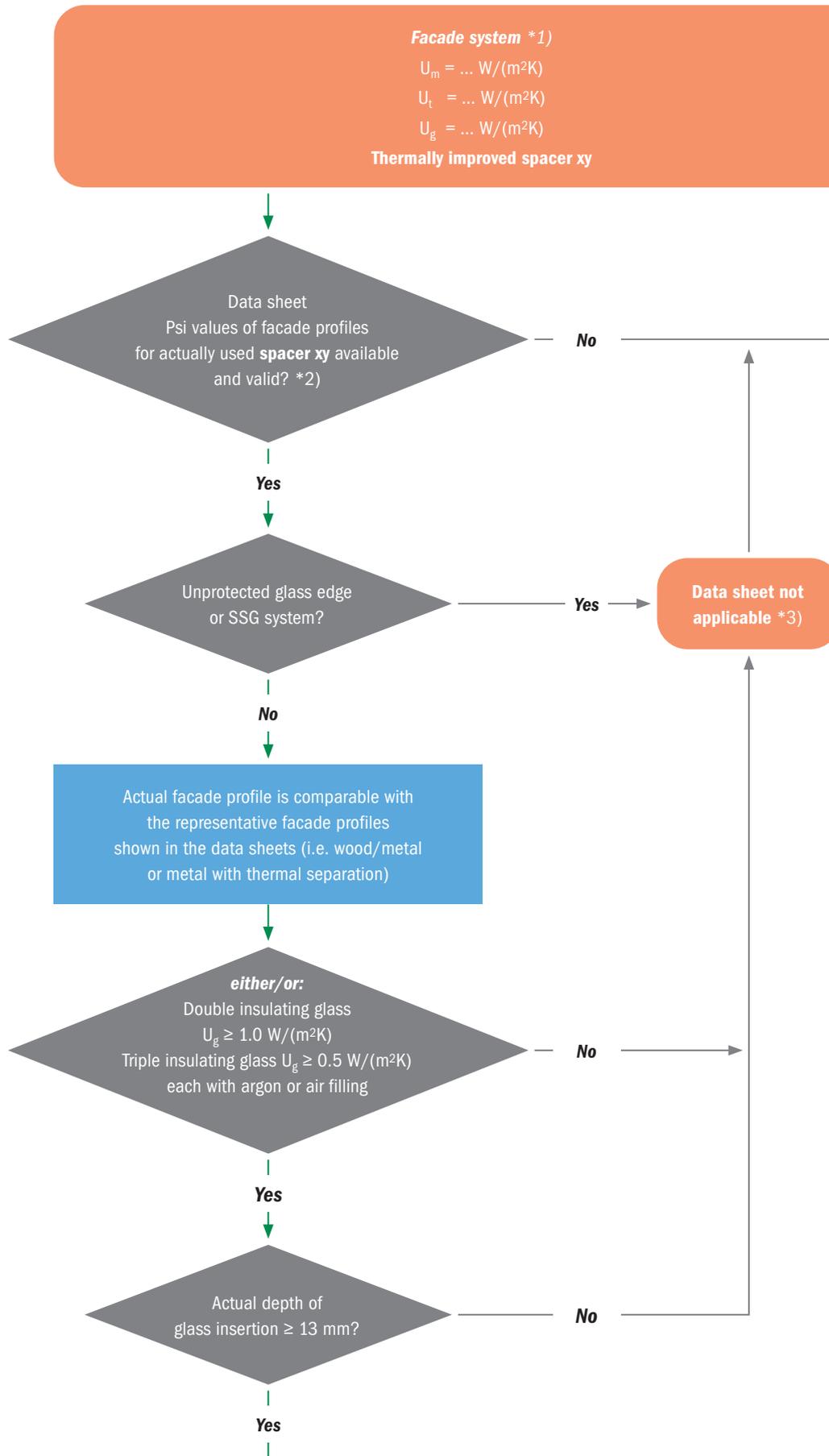


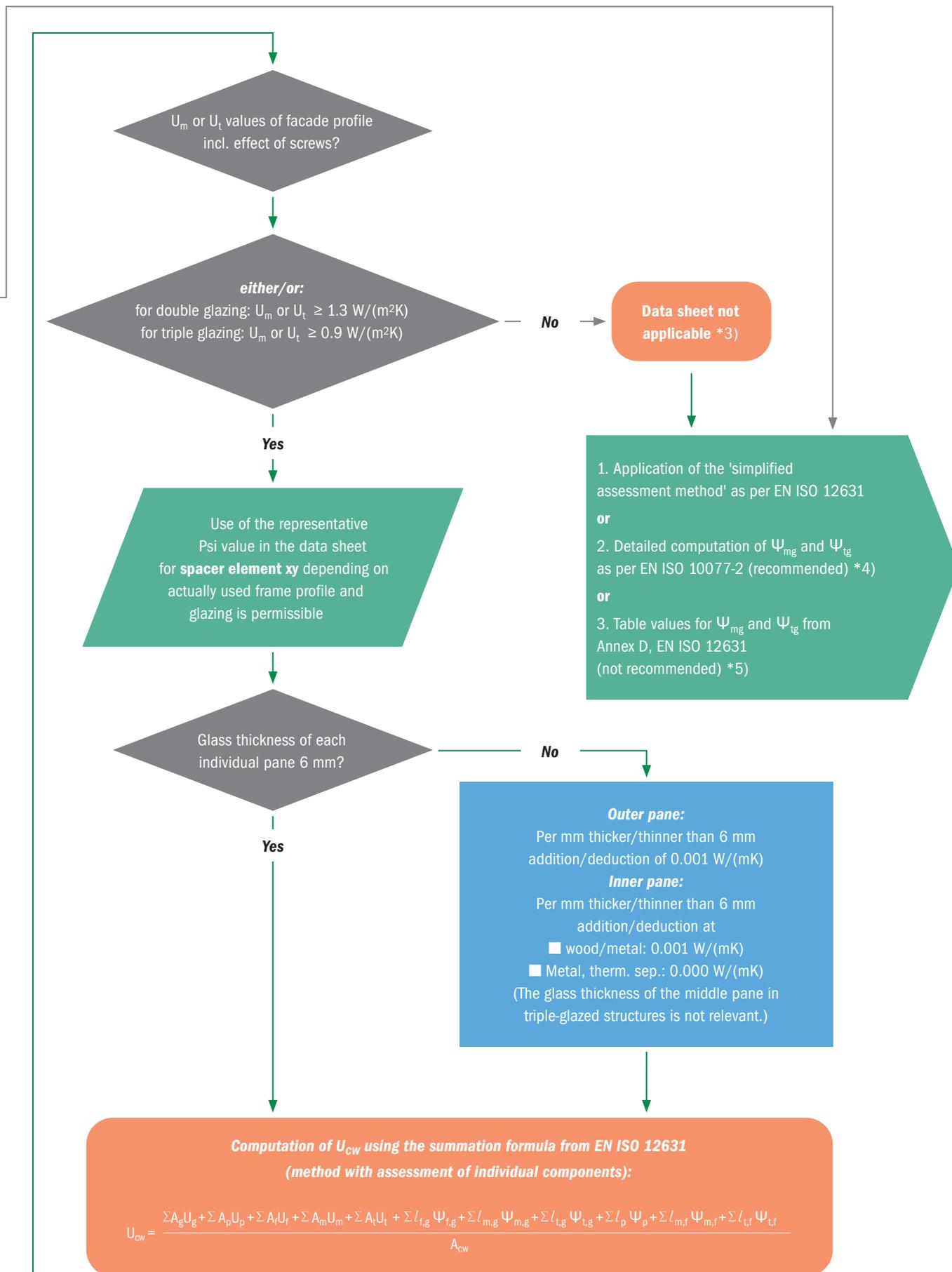
## ***Guide to 'Warm Edge'***

***Windows and facades***

***Brief instructions for data sheets Psi values for facade profiles***

# Brief instructions for data sheets Psi values for facade profiles





\*1) Only for facade systems of which the heat transfer coefficient  $U_{CW}$  can be ascertained as per EN ISO 12631 using the “method with assessment of the individual components” (e.g. element facades, mullion/transom facades and dry glazing with support of two sides). For bonded glass structures with or without silicone bonding and for rear-ventilated facades, this method is unsuitable; in these cases EN ISO 12631 requires use of the so-called “simplified assessment method” with detailed computations of the heat transmission through an entire structure.

\*2) Verification of validity: Data sheets valid at the respective date must be activated on the homepage of BF Bundesverband Flachglas (see <https://www.bundesverband-flachglas.de/en/downloads/data-facade-profiles/>).

\*3) In line with the specifications in the ift guideline WA-22/2 Thermally improved spacers Part 3: Determining the representative  $\Psi$  values of facade profiles

\*4) For the detailed computation as per EN 10077-2 the so-called 2-Box Model is recommended for simpler modelling of the edge seal, using the equivalent thermal

conductivity  $\lambda_{eq,2B}$  of the spacer element. The value  $\lambda_{eq,2B}$  ascertained by measurement of an individual spacer system is indicated in the data sheet for Psi values of facade profiles, bottom right in Box 2.

\*5) The table D.2 from Annex D in EN ISO 12631 with  $\Psi$  values for thermally improved spacer elements depending on the glazing type and the type of mullions/transoms must also apply for the worst spacer system that only just meets the definition of “thermally improved”. They are therefore not very advantageous and do not exploit to the full the improvement potential of the warm edge.

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