
Disclaimer:

These programs are used for the approximate determination of technical parameters. The results of these pre-dimensionings do not replace the required detailed planning and do not constitute proof of compliance with building regulations. The calculated value is for planning purposes; it applies to Schüco mullion and transom constructions, as shown in the Schüco design drawings. The exact determination of the assessed sound reduction index R_w can only be carried out by means of a test rig measurement. The exclusive rights of use are owned by Schüco International KG.

1. Facade Information

Profile System:

Mullion Profile:

Transom Profile:

Insert Outer Profile:

Vent Profile:

Glass:

Glass ID Make up

2. Codes and Specifications

- [1] **EN 13830:2015**, Curtain walling - Product standard.
- [2] **DIN 4109-35:2016**, Sound insulation in buildings – Part 35: Data for verification of sound insulation(component catalogue) – Elements, windows, doors, curtain walling.

3. Results

In accordance with the ift RESEARCH REPORT (March 2017) "Developing a component catalogue for determining airborne sound insulation as well as flanking sound insulation of curtain walling" by ift Rosenheim, an area-based energy calculation of $R_{w,res}$ has been carried out for the user defined window unit.

Rw,res =

dB

The following are taken into account: official test certificates, results of internal profile measurements as well as national and international correction factors in accordance with DIN EN 4109-35:2016 and EN 13830:2015. The output value $R_{w,res}$ currently does not take account of the safety coefficients specified in national standards for the calculation.

The detailed geometry information is listed in the table below.

Fields and Profiles Details