

What's the best U value of insulated glass?

Insulated glass is widely used in curtain wall, glass wall, high rise buildings. The most common glass combination is 6-12A-6 with double silver low-E, U value is around 1.6W/m².K.



Double silver low-E has the highest cost performance. reference price for :

single silver low-E IGU- USD22.5/SQM,

double silver low-E- USD26.5/SQM,

triple silver low-E- USD45/SQM.

While passive building is becoming more and more popular in European countries, the passive building windows&doors U value is usually below 0.8W/m².K and even sometimes below 0.6W/m².K.

Then how we can decrease the glass U value to achieve the passive building low U value requirement?

a. Argon filled

b. Triple glazing

c. reasonable aluminium spacer.

Here is a comparison of different IGU U value:

Glass combination	U value-EN673
6 Clear +12A+6 Clear	2.7
6 SGG-COOLLITE SKN176+12A+6 Clear	1.39
6 SGG-COOLLITE SKN176+12Ar+6 Clear	1.15
6 SGG-COOLLITE SKN176+16Ar+6 SGG-COOLLITE SKN176	1.12
6 SGG-COOLLITE SKN176+12Ar+6 SGG-COOLLITE SKN176+12Ar+6 Clear	0.68
6 SGG-COOLLITE SKN176+16Ar+6 SGG-COOLLITE SKN176+16Ar+6 Clear	0.56

As we can see with more low-E coatings and glass overall thickness,as well as Argon ,U value of **triple glazed units** can achieve 0.56W/m2.k.



In combination with our WR93 **Passive windows system**,overall windows U value is as below:

Glass combination	U value-EN673
WR93 with 6 SGG-COOLLITE SKN176+16Ar+6 SGG-COOLLITE SKN176	1.26
WR93 with 6 SGG-COOLLITE SKN176+12Ar+6 SGG-COOLLITE SKN176+12Ar+6 Clear	0.89
WR93 with 6 SGG-COOLLITE SKN176+16Ar+6 SGG-COOLLITE SKN176+16Ar+6 Clear	0.65

The excellent thermal insulation performance makes the whole windows energy efficient.

Morn is your turnkey passive windows & extremely energy efficient glass supplier,welcome contact us for more info.

Extend:

factors affecting insulated glass quality

Factors causing glass curtain wall visual distortion

Methods to increase energy efficient performance for windows&doors,curtain wall

The benefits of double glazed units in curtain wall

Materials that affect double glazed units energy efficiency and lifetime



QINGDAO MORN BUILDING MATERIALS CO.,LTD

Your turnkey China tempered glass/laminated glass/insulated glass supplier

How to select the right energy efficient glass

Factors affect insulated glass performance

The advantage of insulated glass in Glass curtain wall

Warm edge spacer insulated glass production

Tags: argon filled IGU, double silver low e, energy efficient glass supplier, insulated glass, passive building windows&doors, Passive windows system, SGG-COOLLITE SKN176, Single silver Low-E, triple glazed units, triple glazing, triple silver low e

About Morn Building Materials:

Morn Building Materials Co.,Ltd is trading company offering the right facade materials for a wide range of applications for architectural,design and system requirements.Cooperating with China premium glass fabricators,Morn is able to supply whatever glass products applied in facade,Spandrel ,roof ,handrail,partition,balustrade,canopy,greenhouse,sun room ,interior exterior application.

Other facade materials:Aluminium alloy profiles,aluminium plates,aluminium windows&doors,Assa Abloy hardware,spider fitting,railing systems,shower rooms,polyurethane panels,machines&tools,steel structure, are also available since 2019.

From aesthetics, to strict environmental and energy specifications, to critical budget and delivery requirements, our input can make a difference.

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