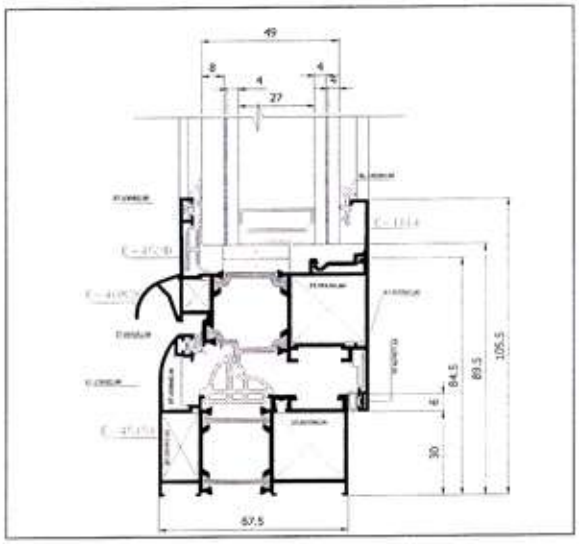
Sound Insulation According to ISO 140/3

A5

Authorizing Company: ETEM S.A.

Dimensions in mm



Specimen description:

Single sash side/bottom hung aluminium window E-45 series

Area : 1,9 m^2
Total glazing thickness: 49 mm

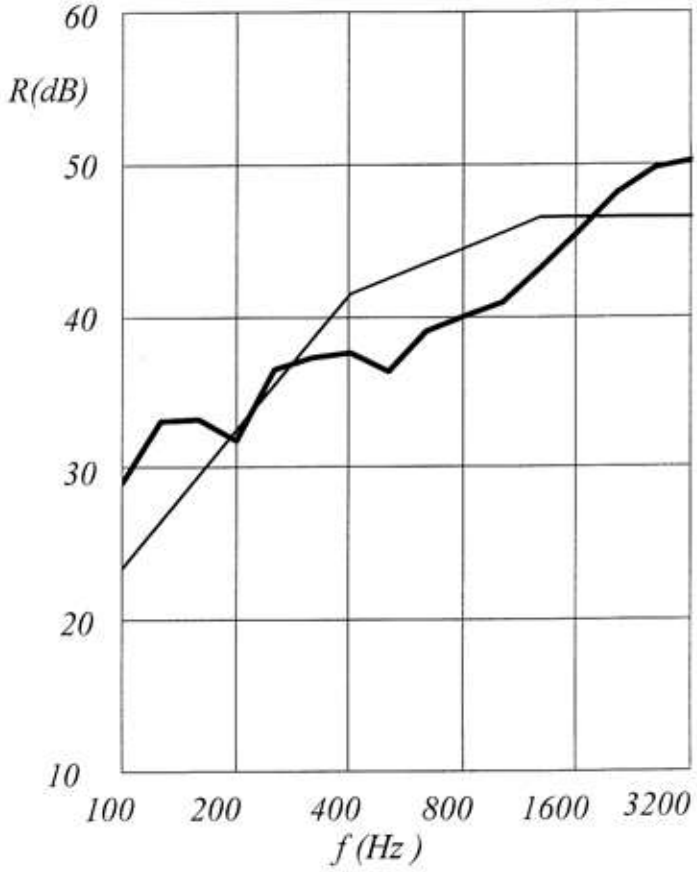
Layers:

Thermal insulating glazing (8+4)+27+(4+4) mm
Gap full with gas
Two rubber seals between sash frame and glazing
Three rubber seals between sash and frame

Test rooms:

Volumes:
V source = *29,7 m^3*
V receiving = *43,8 m^3*

Type of room : *Laboratory test room*
Room condition: *Empty*
Excitation : *White noise*
Filter : *1/3 octave*



Evaluation according to ISO 717/1

Weighted Sound Reduction Index

$R_W = 42$ dB

f(Hz):	100	**125**	160	200	**250**	315	400	**500**	630	800	**1000**	1250	1600	**2000**	2500	3150
R(dB):	28,6	32,6	32,7	31,3	36,0	36,8	37,1	35,9	38,5	39,5	40,4	42,7	45,1	47,6	49,2	49,7

Test number A5.375.05

Date of test: 16.05.2005 C

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