PARTITION SYSTEMS ACOUSTIC INSULATION

GENERAL CONDITIONS

- Acoustic insulation (R_W and R_A) accredited by tests carried out in the AUDIOTEC approved laboratory.
- Sound insulation valid for PYL partitioning systems with Kingspan profiles in combination with any commercial gypsum board, manufactured according to the EN 520 standard.
- The acoustic insulation of PYL systems for cladding and false ceilings depends on the structural support where they are fixed (wall and floor respectively). Therefore, insulation values for cladding and false ceilings are not provided in this technical sheet since they will depend on each specific case. For more information, contact the Kingspan Technical Department.
- Sound insulation valid under the assembly conditions included in the UNE 102043 standard.
- Records and test reports can be requested from Kingspan Technical Department.

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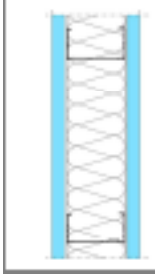
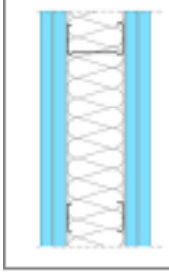
PARTITION SYSTEMS ACOUSTIC INSULATION

SIMPLE CLADDING PARTITION — 1 LAYER OF BOARD EACH SIDE



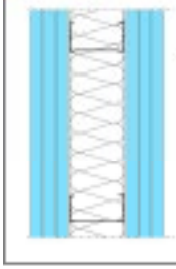
M Montant (mm)	Plaques par face (mm)	D Largeur (mm)	Isolant (mm)	Isolation acoustique R_w (dB)	Isolation acoustique R_A (dBA)	Référence essai	Référence Système TZ
48	1 x 15	78	Mineral wool 40	46	42.8	CTA 205/09/AER	TZ (15x1)/LR 48
70	1 x 15	100	-	41	40.2	CTA 202/09/AER	TZ (15x1)/ 70
70	1 x 15	100	Mineral wool 60	47	45.4	CTA 204/09/AER	TZ (15x1)/LR 70
70	1 x 15	106	Mineral wool 60	47	46	CTA-274/05/AER	TZ (15x1)/LR 70

MULTIPLE CLADDING PARTITION — 2 LAYERS OF BOARD EACH SIDE



M Stud (mm)	Layers each side (mm)	D Wall thickness (mm)	Insulation (mm)	Acoustic insulation R_w (dB)	Acoustic insulation R_A (dBA)	Test reference	TZ System reference
48	2 x 15	106	-	46	44.4	CTA 207/09/AER	TZ (15x2)/ 48
48	2 x 15	106	Mineral wool 40	55	51.6	CTA 208/09/AER	TZ (15x2)/LR 70
70	2 x 15	130	-	49	47.3	CTA 210/09/AER	TZ (15x2)/ 70
70	2 x 15	130	Mineral wool 60	55	55.5	CTA 209/09/AER	TZ (15x2)/LR 70

MULTIPLE CLADDING PARTITION — 3 LAYERS OF BOARD EACH SIDE



M Stud (mm)	Layers each side (mm)	D Wall thickness (mm)	Insulation (mm)	Acoustic insulation R_w (dB)	Acoustic insulation R_A (dBA)	Test reference	TZ System reference
70	3 x 15	160	LM 60	58	56.9	CTA 206/09/AER	TZ (15x3)/LR 70

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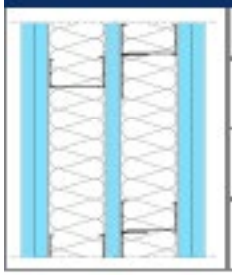
PARTITION SYSTEMS ACOUSTIC INSULATION

DOUBLE STUD FRAME PARTITION

STIFFENED FRAMING
2 LAYERS OF BOARD EACH SIDE + 1 INNER BOARD

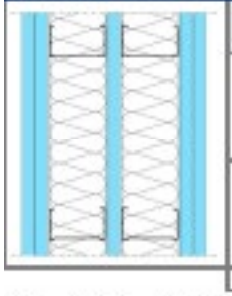


M Stud	Layers each side	D Wall thickness	Insulation	Acoustic insulation R_w	Acoustic insulation R_A	Test reference	TZ System reference
2 x 48	2 x 12.5 + 1 x 12.5 [mm]	136.5	2 x Mineral wool 40	62	59.1	CIA-268/06-AER (*)	TZ[EL.9/2+1]/LR 2x48
2 x 48	2 x 15 + 1 x 15 [mm]	171	2 x Mineral wool 40	64	60.5	CIA-146/09-AER (*)	TZ[EL.12/2+1]/LR 2x48
2 x 70	2 x 12.5 + 1 x 12.5 [mm]	202.5	2 x Mineral wool 60	65	63.6	CIA-305/09/AER	TZ[EL.9/2+1]/LR 2x70
[mm]	[mm]	[mm]	[mm]	[dB]	[dB A]		

(*) Generic test carried out by AIDIY (Cluster Business Technical Association)

DOUBLE STUD FRAME PARTITION

NOT STIFFENED FRAMING
2 LAYERS OF BOARD EACH SIDE + 1 INNER BOARD



M Stud	Layers each side	D Wall thickness	Insulation	Acoustic insulation R_w	Acoustic insulation R_A	Test reference	TZ System reference
2 x 70	2 x 12.5 + 1 x 12.5 [mm]	202.5	2 x Mineral wool 60	70	66.9	CIA-268/06-AER (*)	TZ[EL.9/2+1]/LR 2x70
2 x 70	2 x 15 + 1 x 15 [mm]	235	2 x Mineral wool 60	71	68.7	CIA-340/06-AER (*)	TZ[EL.12/2+1]/LR 2x70
[mm]	[mm]	[mm]	[mm]	[dB]	[dB A]		

(*) Generic test carried out by AIDIY (Cluster Business Technical Association)

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