

Acoustic Insulation Solutions:

- Dwellings
- Premises



Waterproofing



Insulation



Drainages - Geotextiles



Skylights

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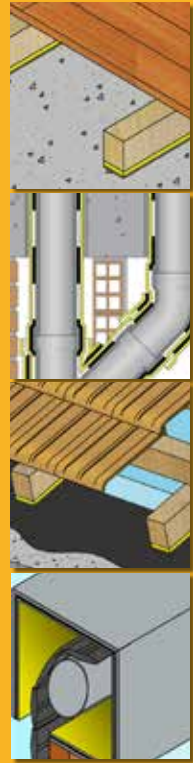
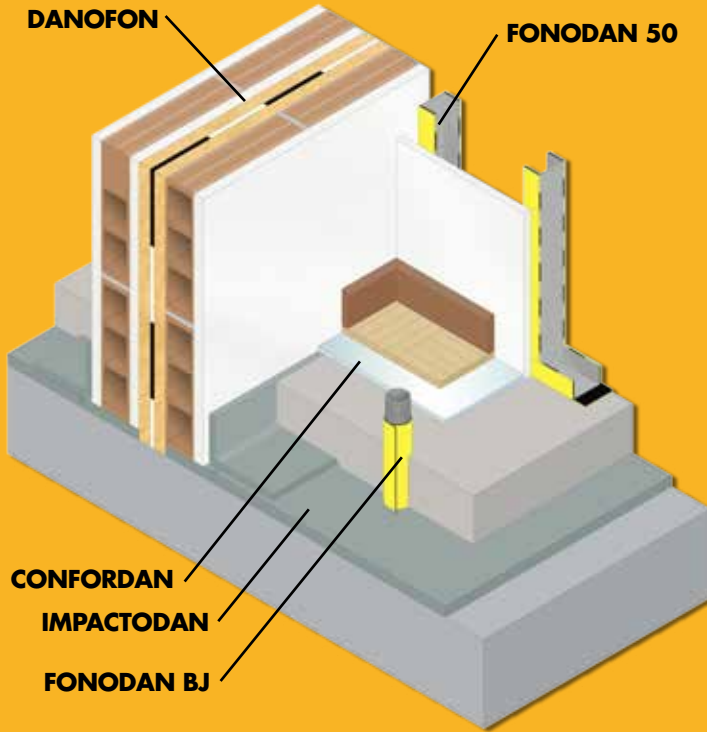
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PREMISES TYPES

Premises types	Schedule	Ceiling/Roofing	Walls	Floors	Installation
Bar - cafe	Daytime	L.3.1	L.2.3	N.1.1	N.3.1
Bar - restaurant	Night time	L.3.2	L.2.4	L.1.2	L.4.1
Pub	Night time	L.3.3	L.2.5	L.1.1	L.4.1
Discotheque	Night time	L.3.4	L.2.5	L.1.1	L.4.1
Gym	Daytime	L.3.2	L.2.2	L.1.1	N.3.1
Mechanical workshop	Daytime	L.3.1	L.2.1	L.1.2	N.3.1
Bakery	Night time	L.3.2	L.2.4	L.1.1	L.4.1
Printery	Daytime	L.3.2	L.2.2	L.1.1	N.3.1
Supermarket	Daytime	L.3.1	L.2.6	L.1.2	N.3.1
Office	Daytime	-	N.6.1/N.6.2	N.1.1	N.3.1
Deck roofing	-	L.5.1/L.5.2	-	-	-
Kids' Entertainment premises	Daytime	L.3.1	L.2.6	N.1.1	N.3.1

N = Dwellings; L = Locals

DWELLINGS



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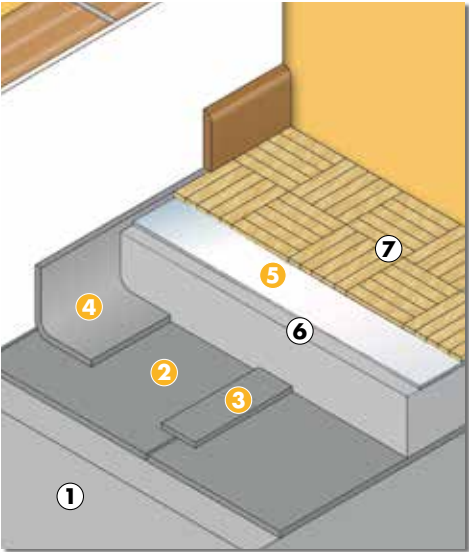
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N.1.1.FLOORS. FLOATING MORTAR WITH IMPACTODAN AND CONFORDAN



This construction detail is indicative only

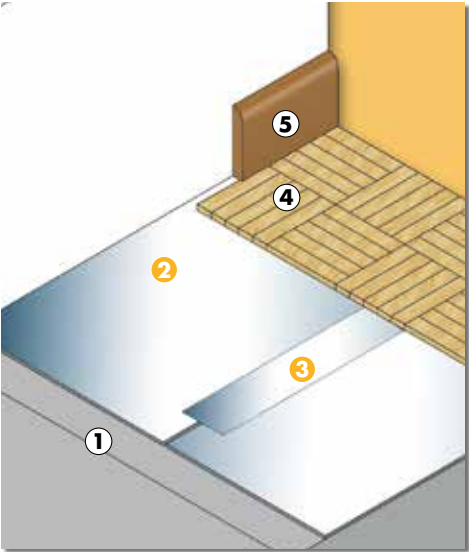
①	Slab	
②	Shock absorbing acoustic insulation	IMPACTODAN
③	Acoustic insulation	Acoustic insulation tape
④	Acoustic insulation	Acoustic insulation tape
⑤	Shock absorbing acoustic insulation	CONFORDAN
⑥	Mortar	
⑦	Laminate flooring	

Thickness : 5-10 mm + mortar and finished

$L'_{nTw} < 58 \text{ dB}$

$D_{nTA} > 50 \text{ dBA}$

N.1.2. FLOORS. FLOATING LAMINATE FLOORING WITH CONFORDAN



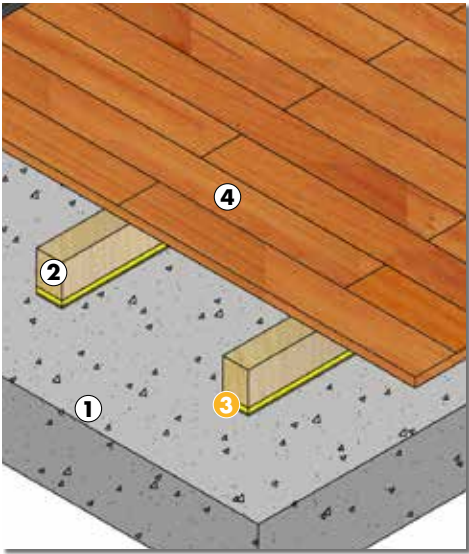
This construction detail is indicative only

①	Existing flooring	
②	Shock absorbing acoustic insulation	CONFORDAN
③	Acoustic insulation	Auxiliary tape CONFORDAN
④	Laminate flooring	
⑤	Skirting	

Thickness: 3 mm + laminate flooring

$\Delta L_w > 18 \text{ dB}$

N.1.3. FLOORS. FLOORING BATTENS SYSTEM WITH FONODAN 50



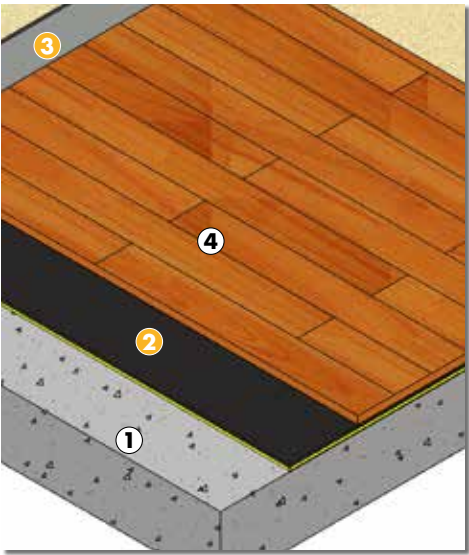
This construction detail is indicative only

1	Slab	
2	Batten	
3	Antiresonant and shock absorbing acoustic insulation	FONODAN 50
4	Flooring battens	

Thickness : 5mm + flooring battens

$\Delta L_w > 20$ dB

N.1.3. FLOORS. LAMINATE FLOORING WITH FONODAN 900



This construction detail is indicative only

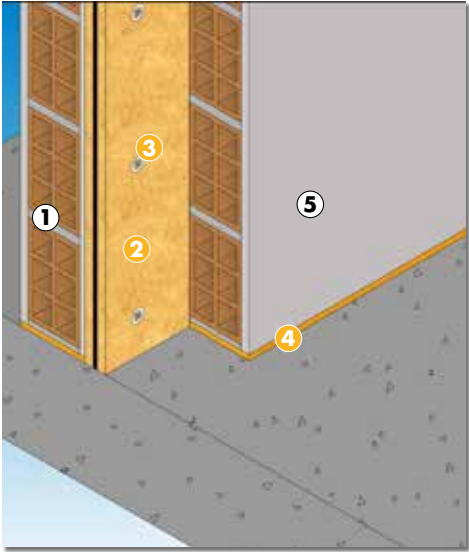
1	Slab	
2	Antiresonant and shock absorbing acoustic insulation	FONODAN 900
3	Acoustic insulation	Auxiliary tape CONFORDAN
4	Laminate flooring	

Thickness : 5mm + laminate flooring

$\Delta L_w = 22$ dBA

* Improve the laminate flooring loudness

N.2.1. SEPARATING WALLS. BRICK SEPARATING WALL WITH DANOFON



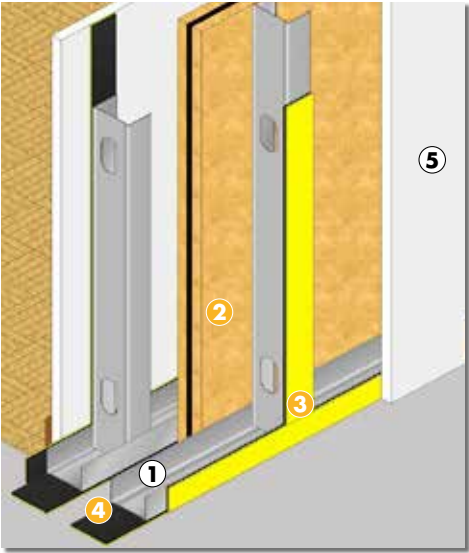
①	Light brick wall	
②	Acoustic insulation at low, medium and high frequencies	DANOFON
③	Acoustic insulation	Acoustic insulation fixings
④	Acoustic insulation	Acoustic insulation tape
⑤	Plaster	

Thickness: 20 mm.

$D_{nTA} > 50$ dBA

This construction detail is indicative only

N.2.2. SEPARATING WALLS. PLASTERBOARD SEPARATING WALL WITH FONODAN 50 AND DANOFON



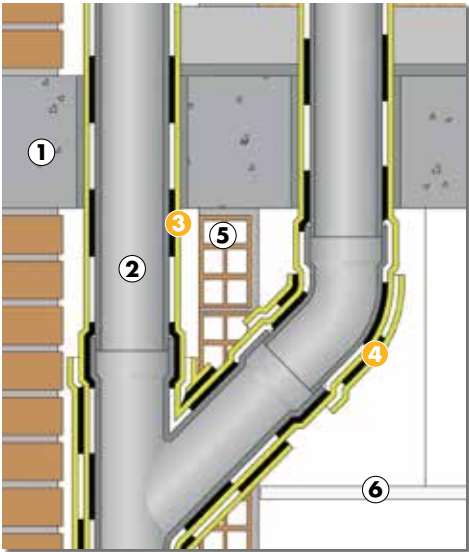
①	Frame	
②	Acoustic insulation at low, medium and high frequencies	DANOFON
③	Antiresonant and shock absorbing acoustic insulation	FONODAN 50
④	Acoustic insulation	FONODAN 50 tape
⑤	Plasterboards	

Thickness : 22 mm

$D_{nTA} > 50$ dBA

This construction detail is indicative only

N.3.1. DRAINPIPES. DRAINPIPE WITH FONODAN BJ

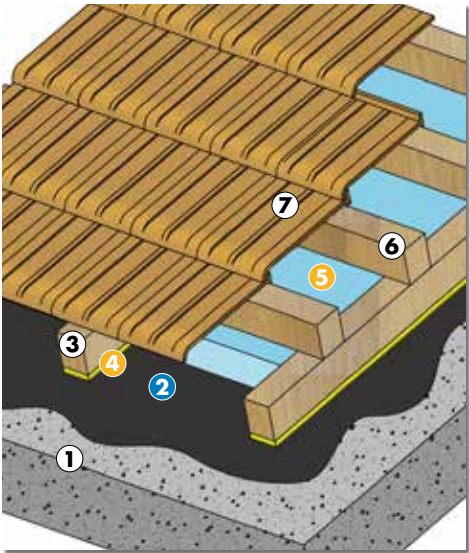


This construction detail is indicative only

①	Slab	
②	Drainpipe	
③	Antiresonant and shock absorbing acoustic insulation	FONODAN BJ
④	Acoustic insulation	Auxiliary tape
⑤	Independent brick wall	
⑥	Ceiling	

Thickness : 5-10 mm
IL > 17 dBA (System)
IL > 9 dBA (Product)

N.4.1 ROOFS. TILED PITCHED ROOF WITH FONODAN 50

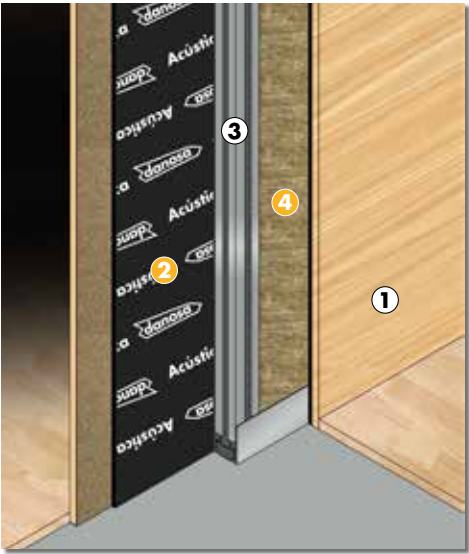


This construction detail is indicative only

①	Support	
②	Waterproofing membrane	SELF-DAN B.T.M.
③	Batten	
④	Antiresonant and shock absorbing acoustic insulation	FONODAN 50
⑤	Thermal insulation	DANOPREN TR
⑥	Secondary batten	
⑦	Tiles	

Thickness : 5 + tile system
 $\Delta L_w = 18 \text{ dBA}$

N.6.1. OFFICES. PARTITION WALL WITH M.A.D AND MINERAL WOOL



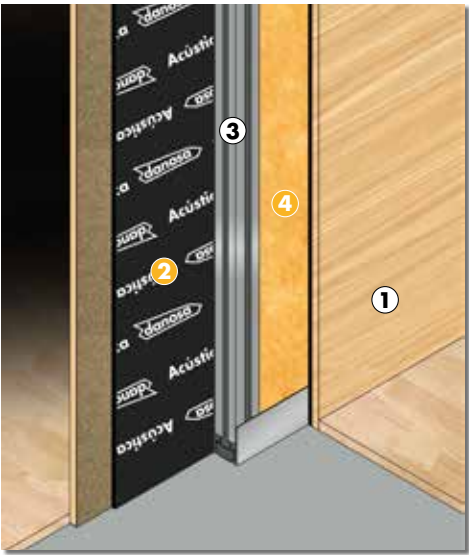
①	Plywood board	
②	Antiresonant acoustic insulation	M.A.D.
③	Frame	
④	Acoustic insulation at medium and high frequencies	ROCDAN 231

Thickness : 12-13 cm.

$D_{nTA} > 45 \text{ dBA}$

This construction detail is indicative only

N.6.2. OFFICES. PARTITION WALL WITH M.A.D. AND DANOFON



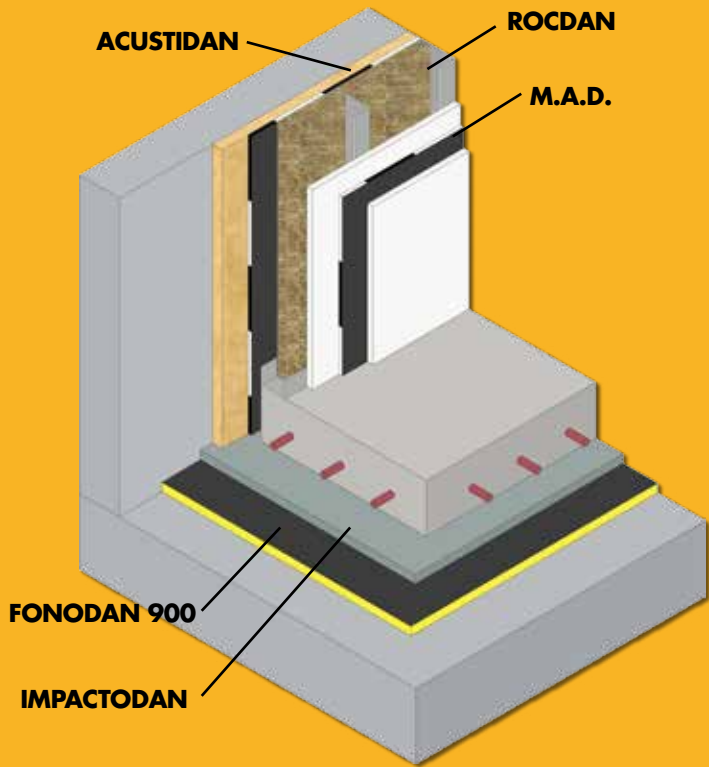
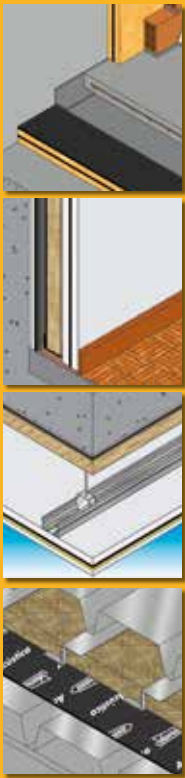
①	Plywood board	
②	Antiresonant acoustic insulation	M.A.D.
③	Frame	
④	Acoustic insulation at low, medium and high frequencies	DANOFON

Thickness : 9-10 cm.

$D_{nTA} > 47 \text{ dBA}$

This construction detail is indicative only

PREMISES



L.1. Floors

- L.1.1 In mechanical rooms with ACUSTIDAN and IMPACTODAN 10
- L.1.2 Floating mortar with FONODAN 900 with IMPACTODAN 10

L.2. Walls

- L.2.1 Independent brick wall with DANOFON 11
- L.2.2 Independent plasterboard wall with FONODAN 900 11
- L.2.3 Independent plasterboard wall with M.A.D. and ROC DAN 12
- L.2.4 Independent plasterboard wall with ACUSTIDAN and M.A.D. 12
- L.2.5 Independent plasterboard wall with SONODAN PLUS Auto. and M.A.D. 13
- L.2.6 Separating plasterboard wall with FONODAN 50 and ROC DAN 231 13
- L.2.7 Independent plasterboard wall with M.A.D. and DANOFON 14

L.3. Floors

- L.3.1 Floating plasterboard ceiling with M.A.D. and ROC DAN 231 14
- L.3.2 Floating plasterboard ceiling with ACUSTIDAN and M.A.D. 15
- L.3.3 Floating plasterboard ceiling with SONODAN PLUS Auto. and M.A.D. 15
- L.3.4 Floating plasterboard ceiling with SONODAN PLUS Auto. and FONODAN 900 16

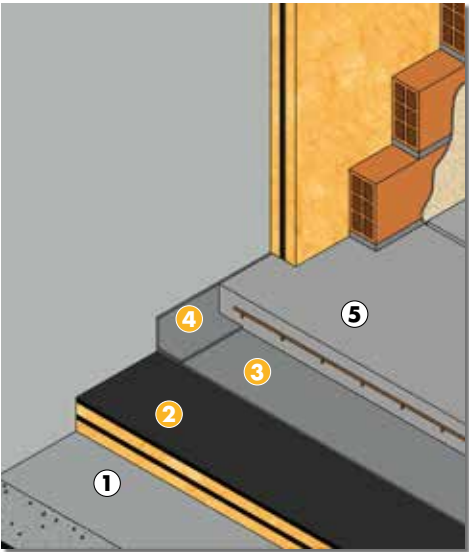
L.4. Drainpipes

- L.4.1 Drainpipe with ACUSTIDAN 16

L.5. Roofs

- L.5.1 Metallic deck roof with M.A.D. (over deck) 17
- L.5.2 Metallic deck roof with M.A.D. (between insulation) 17

L.1.1. FLOORS. IN MECHANICAL ROOMS WITH ACUSTIDAN AND IMPACTODAN



This construction detail is indicative only

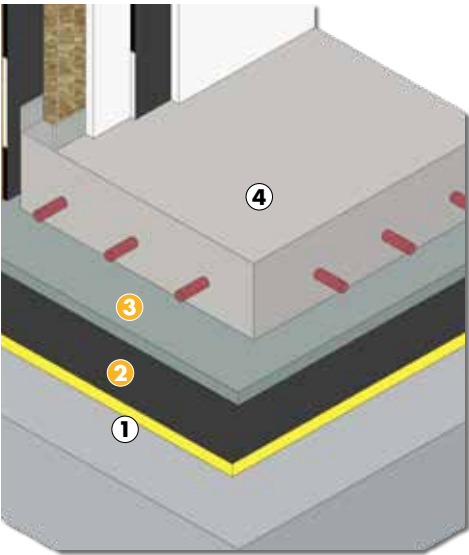
①	Slab	
②	Acoustic insulation at low, medium and frequencies	ACUSTIDAN (Double)
③	Shock absorbing acoustic insulation	IMPACTODAN
④	Acoustic insulation	Acoustic insulation tape
⑤	Reinforced mortar	

Thickness : 7 cm. + mortar and finished

$\Delta R_A > 13 \text{ dBA}$

$\Delta L_w > 33 \text{ dB}$

L.1.2. FLOORS. FLOATING MORTAR WITH FONODAN 900 AND IMPACTODAN



This construction detail is indicative only

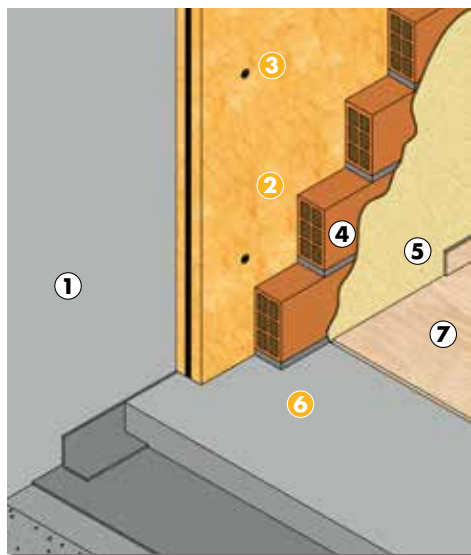
①	Slab	
②	Antiresonant and shock absorbing acoustic insulation	FONODAN 900
③	Shock absorbing acoustic insulation	IMPACTODAN
④	Reinforced mortar	

Thickness : 7 cm. + mortar and finished

$\Delta R_A > 10 \text{ dBA}$

$\Delta L_w > 24 \text{ dB}$

L.2.1. WALLS. INDEPENDENT BRICK WALL WITH DANOFON



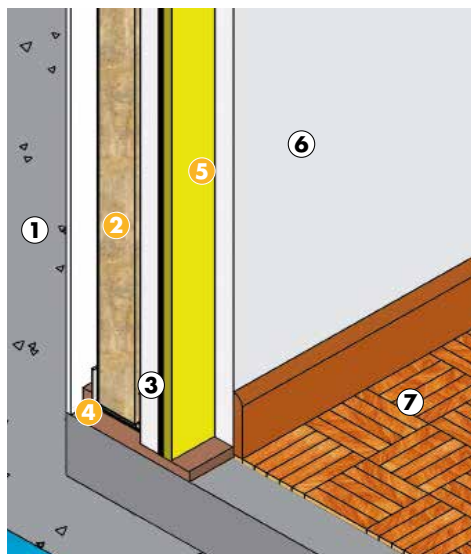
①	Existing wall	
②	Acoustic insulation at low, medium and high frequencies	DANOFON
③	Isolation acoustique	Acoustic insulation fixings
④	Light brick wall	
⑤	Plaster	
⑥	Acoustic insulation. Floating floor system	IMPACTODAN system
⑦	Finish	

Thickness: 11 cm.

$\Delta R_A > 21$ dBA

This construction detail is indicative only

L.2.2. WALLS. INDEPENDENT PLASTERBOARD WALL WITH FONODAN 900



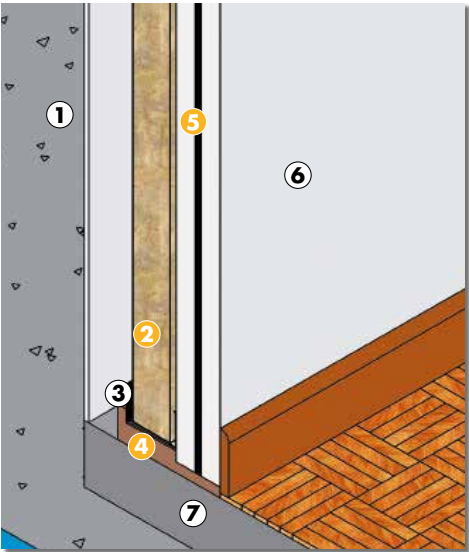
①	Existing wall	
②	Acoustic insulation at medium and high frequencies	ROC DAN 231
③	Frame	
④	Acoustic insulation	Shock absorber SEB-40
⑤	Antiresonant and shock absorbing acoustic insulation	FONODAN 900
⑥	Plasterboards	
⑦	Floating floor system	

Thickness: 9 cm.

$\Delta R_A > 20$ dBA

This construction detail is indicative only

L.2.3. WALLS. INDEPENDENT PLASTERBOARD WALL WITH M.A.D. AND ROCDAN 231



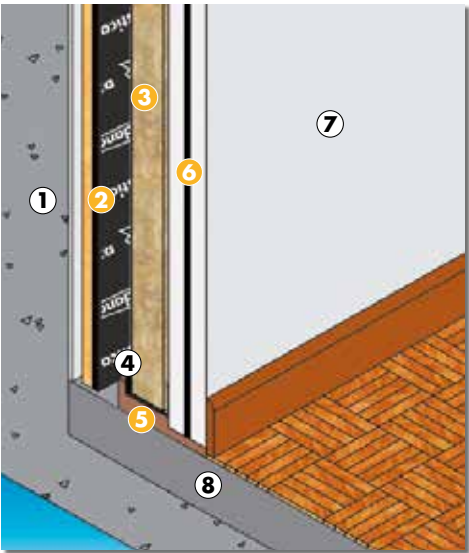
This construction detail is indicative only

①	Existing wall	
②	Acoustic insulation at medium and high frequencies	ROCDAN 231
③	Frame	
④	Acoustic insulation	Shock absorber SEB-40
⑤	Antiresonant acoustic insulation	M.A.D.
⑥	Plasterboards	
⑦	Floating floor system	

Thickness: 9 cm.

$\Delta R_A > 19$ dBA

L.2.4. WALLS. INDEPENDENT PLASTERBOARD WALL WITH ACUSTIDAN AND M.A.D.

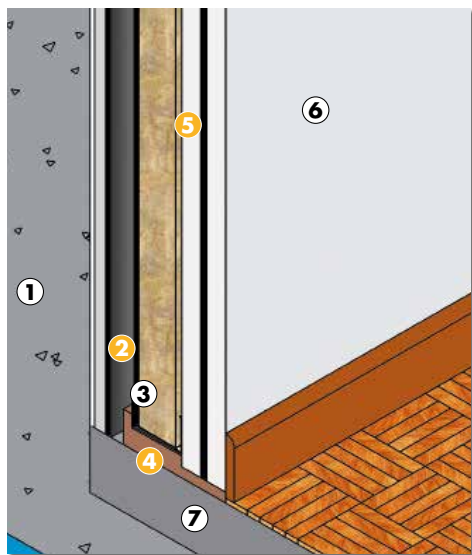


This construction detail is indicative only

①	Existing wall	
②	Acoustic insulation at low and medium frequencies	ACUSTIDAN
③	Acoustic insulation at medium and high frequencies	ROCDAN 231
④	Frame	
⑤	Acoustic insulation	Shock absorber SEB-40
⑥	Antiresonant acoustic insulation	M.A.D.
⑦	Plasterboards	
⑧	Floating floor system	

Thickness: 12 cm.

$\Delta R_A > 22$ dBA

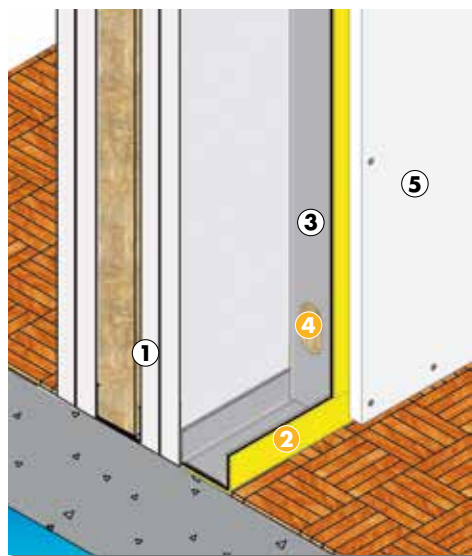
L.2.5. WALLS. INDEPENDENT PLASTERBOARD WALL WITH SONODAN PLUS AND M.A.D.

①	Existing wall	
②	Acoustic insulation at low, medium and high frequencies for impulsive noise	SONODAN PLUS Autoadhesivo
③	Frame	
④	Acoustic insulation	Shock absorber SEB-40
⑤	Antiresonant acoustic insulation	M.A.D.
⑥	Plasterboards	
⑦	Floating floor system	

Thickness: 13 cm.

$\Delta R_A > 25 \text{ dBA}$

This construction detail is indicative only

L.2.6. WALLS. SEPARATING PLASTERBOARD WALL WITH FONODAN 50 AND ROCDAN 231

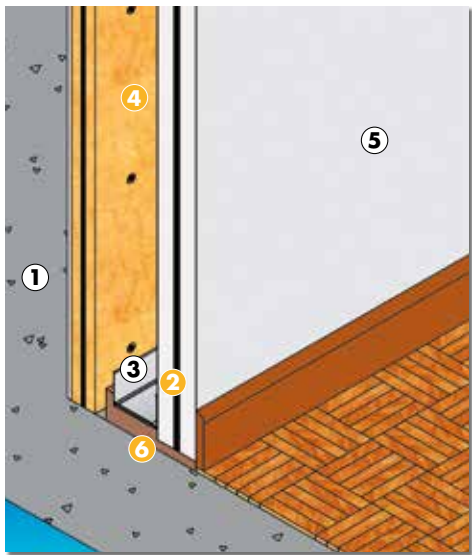
①	Existing plasterboard wall	
②	Antiresonant and shock absorbing acoustic insulation	FONODAN 50
③	Frame	
④	Acoustic insulation at medium and high frequencies	ROCDAN 231
⑤	Plasterboards	

Thickness: 7 cm.

$\Delta R_A > 17 \text{ dBA}$

This construction detail is indicative only

L.2.7. WALLS. INDEPENDENT PLASTERBOARD WALL WITH M.A.D. AND DANOFON



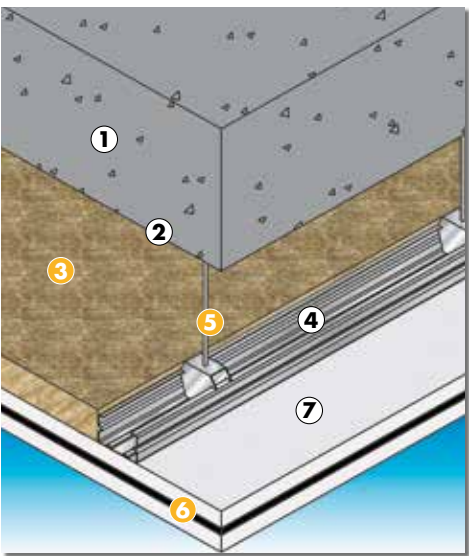
This construction detail is indicative only

1	Existing walls	
2	Antiresonant acoustic insulation	M.A.D.
3	Frame	
4	Acoustic insulation at low, medium and high frequencies	DANOFON
5	Plasterboards	
6	Acoustic insulation	Shock absorber SEB-40

Thickness: 11 cm.

$\Delta R_A > 21$ dBA

L.3.1. CEILINGS. FLOATING PLASTERBOARD CEILING WITH M.A.D. AND ROC DAN 231



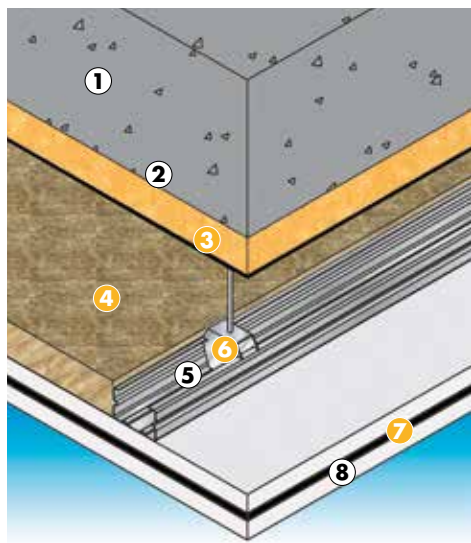
This construction detail is indicative only

1	Slab	
2	Plaster	
3	Acoustic insulation at medium and high frequencies	ROC DAN 231
4	Frame	
5	Acoustic insulation	Shock absorber ATC-25
6	Antiresonant acoustic insulation	M.A.D.
7	Plasterboards	

Thickness: 8-10 cm.

$\Delta R_A > 22$ dBA

L.3.2. CEILINGS. FLOATING PLASTERBOARD CEILING WITH ACUSTIDAN AND M.A.D.



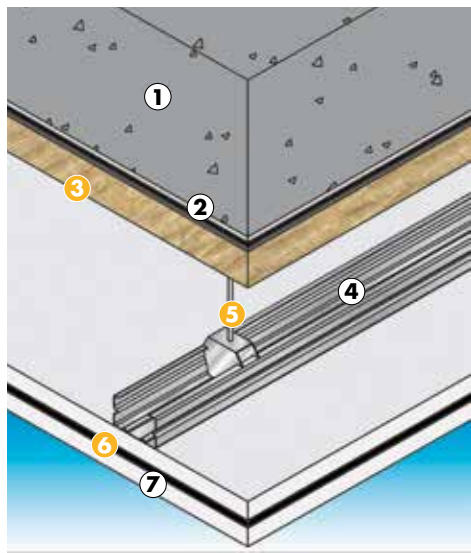
①	Slab	
②	Plaster	
③	Acoustic insulation at low and medium frequencies	ACUSTIDAN
④	Acoustic insulation at medium and high frequencies	ROCDAN 231
⑤	Frame	
⑥	Acoustic insulation	Shock absorber ATC-25
⑦	Antiresonant acoustic insulation	M.A.D.
⑧	Plasterboards	

Thickness: 11-14 cm.

$\Delta R_A > 26$ dBA

This construction detail is indicative only

L.3.3. CEILINGS. FLOATING PLASTERBOARD CEILING WITH SONODAN PLUS AUTO. AND M.A.D.



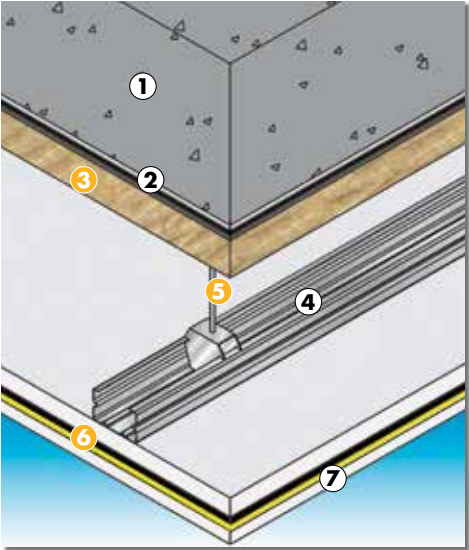
①	Slab	
②	Plaster	
③	Acoustic insulation at low, medium and high frequencies for impulsive noise	SONODAN PLUS Autoadhesivo
④	Frame	
⑤	Acoustic insulation	Shock absorber ATM-30
⑥	Antiresonant acoustic insulation	M.A.D.
⑦	Plasterboards	

Minimum thickness > 18 cm.

$\Delta R_A > 30$ dBA

This construction detail is indicative only

L3.4. CEILINGS. FLOATING PLASTERBOARD CEILING WITH SONODAN PLUS AUTO. AND FONODAN 900



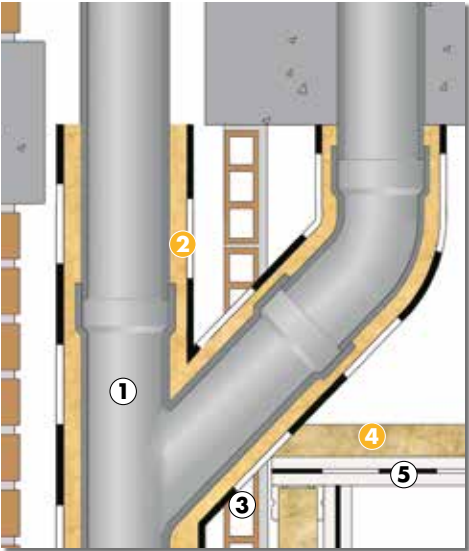
①	Slab	
②	Plaster	
③	Acoustic insulation at low, medium and high frequencies for impulsive noise	SONODAN PLUS Autoadhesivo
④	Frame	
⑤	Acoustic insulation	Shock absorber ATM-30
⑥	Antiresonant and shock absorbing acoustic insulation	FONODAN 900
⑦	Plasterboards	

Thickness: 18 cm.

$\Delta R_A > 32$ dBA

This construction detail is indicative

L.4.1. DRAINPIPES. DRAINPIPES WITH ACUSTIDAN



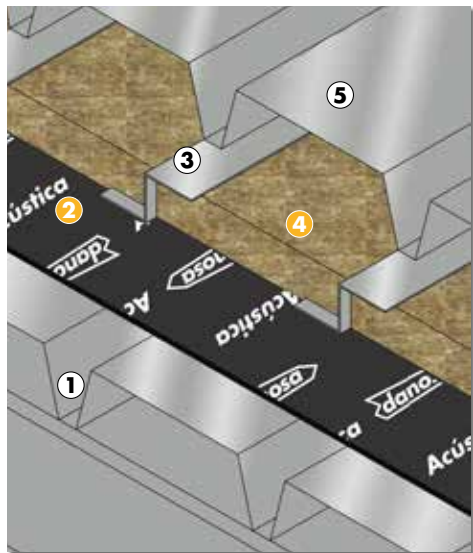
①	Drainpipe	
②	Acoustic insulation at low and medium frequencies	ACUSTIDAN
③	Independent wall system	
④	Acoustic insulation at medium and high frequencies	ROCDAN 231
⑤	Floating ceiling system	

Thickness: 2 cm.

IL > 20 dBA

This construction detail is indicative

L.5.1. ROOFS. METALLIC DECK ROOF WITH M.A.D. (OVER DECK)



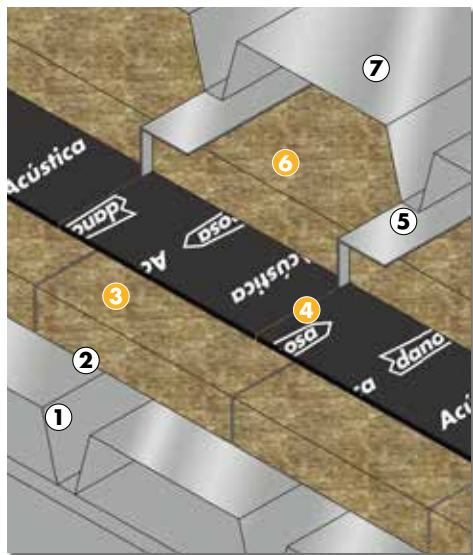
This construction detail is indicative

①	Metal deck roof	
②	Antiresonant acoustic insulation	M.A.D.
③	Metal frame	
④	Acoustic insulation at medium and high frequencies	ROCDAN 231
⑤	Finish steel sheet	

Thickness: 4 mm. + thermal insulation and sheet iron

$\Delta R_A > 4$ dBA

L.5.2. ROOFS. METALLIC DECK ROOF WITH M.A.D. (BETWEEN INSULATION)



This construction detail is indicative

①	Metal deck roof	
②	Vapour barrier	
③	Acoustic insulation at medium and high frequencies	ROCDAN 231
④	Antiresonant acoustic insulation	M.A.D.
⑤	Metal frame	
⑥	Acoustic insulation at medium and high frequencies	ROCDAN 231
⑦	Finish steel sheet	

Thickness: 5 cm. mineral wool + 4 mm. + thermal insulation

$\Delta R_A > 7$ dBA

4. PRODUCT LIST

4.1. MULTILAYER PANNELS. MULTILAYER MATERIALS FOR ACOUSTIC INSULATION TO LOW, MEDIUM AND HIGH FREQUENCIES

4.1.1 ACUSTIDAN 19

4.1.2 DANOFON 19

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MULTILAYER PANNELS. MULTILAYER MATERIALS FOR ACOUSTIC INSULATION TO LOW, MEDIUM AND HIGH FREQUENCIES
ACUSTIDAN®

It is a composite made of a high density bitumen based membrane and a thick geotextile layer.

	Code	Commercial name	Size (m)	Thickness (mm)	sqm/pallet	Airborne acoustic insulation (dBA)
	610083	ACUSTIDAN 16/2	6x1 rolls	18	72	35
	610080	ACUSTIDAN 16/4		20	72	38,5

INSTALLATION

DANOFON®

It is a multilayer composite made of a high density bitumen based membrane between two thick textile layers.

	Code	Commercial name	Size (m)	Thickness (mm)	sqm/pallet	Airborne acoustic insulation (dBA)
	610090	DANOFON	6x1 rolls	28	54	54

INSTALLATION


PRODUCT LIST

SONODAN® PLUS Autoadhesivo

It is a multilayer system divided in two different layers. This differentiation allows the application in a way that decreases the risk of watertightness.

- First layer: made by a reticulate polyethylene and a high density bituminous membrane with self-adhesive finish.
- Second layer: made by high density bituminous membrane with self-adhesive finish and an absorbing mineral wool.

	Code	Commercial name	Size (m)	Thickness (mm)	sqm/pallet	Panels/pallet
	610060	SONODAN PLUS Autoadhesivo	1,20 x1 rolls	40	48	55

INSTALLATION



ELASTIC MATERIALS FOR REDUCTION OF IMPACT NOISE

IMPACTODAN® 5

It is a cross linked closed cell polyethylene sheet. Its internal structure provides elasticity, so it is used under concrete in order to reduce the impact noise.

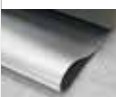
	Code	Commercial name	Size (m)	Thickness (mm)	m/rolls	Dynamic stiffness	Resistance to compression	ΔL_w
	620015-05	IMPACTODAN 5	1x15; 2x50 rolls	5	100; 15	<95 MN/m³	>20 Kpa	20 dB
	620042	Desolidarizador de muros	0,15x12,5 rolls	10	12,5	<100 MN/m³		
	620044	Desolidarizador perimetral	0,2x25 rolls	3	25			
	620045	Cinta de solape	0,07x25 rolls	3	25			-

INSTALLATION



CONFORDAN®

It is a flexible cross-linked closed-cell polyethylene membrane, finished in an aluminized LPDE film. It is used as a thermo-acoustic insulation and protection against humidity under laminated floors.

	Code	Commercial name	Size (m)	Thickness (mm)	sqm/rolls	Impact sound improvement (dB)
	620032	CONFORDAN	0,95x25	3	23,75	18 dB
	620035	Cinta autoadhesiva Confordan	0,05x50	3	-	-

INSTALLATION

HIGH DENSITY MEMBRANES FOR ACOUSTIC INSULATION. ANTIRESONANT MATERIALS FOR REDUCTION OF TYPICAL VIBRATIONS FROM RIGID AND LIGHT WEIGHT MATERIALS.
Membrana Acústica Danosa (M.A.D.®)

It is a high density bitumen modified membrane, specifically designed to behave as an antiresonant material.

	Code	Commercial name	Size (m)	Thickness (mm)	sqm/pallet	Acoustic improvement (dB)
	610002	Membrana acústica Danosa M.A.D. 2	12x1	2	360	> 3
	610003	Membrana acústica Danosa M.A.D. 4	6x1	4	180	> 6
	610031	Membrana acústica Danosa M.A.D. 4 ERF				
	610005	Membrana acústica Danosa M.A.D. 4 Autoadhesiva				
	610017	Membrana acústica Danosa M.A.D. 4 Autoadhesiva en placas	1x1,20/plate		150	

INSTALLATION (MECHANICALLY FIXED)


PRODUCT LIST

INSTALLATION (SELF-ADHESIVE VERSION)



ANTIRESONANT AND SHOCK ABSORBING MATERIALS FOR IMPACT NOISE AND VIBRATION REDUCTION

FONODAN® 50

It is a two layer material made of a self-adhesive high density bitumen based membrane and a thermally bonded cross linked polyethylene.

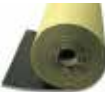
	Code	Commercial name	Size (m)	Thickness (mm)	Rolls/box	Acoustic improvement (dB)
	610202	FONODAN 50	0,046x10 rolls	3,9	7	3

INSTALLATION



FONODAN® BJ

It is a two layer material made of a self-adhesive high density bitumen based membrane and a thermally bonded cross linked polyethylene.

	Code	Commercial name	Size (m)	Thickness (mm)	Rolls/box	Insertion loss (dBA)
	610207	FONODAN BJ	0,42x10 rolls	3,9	32	9
	610209	Banda refuerzo codo	0,132x10 rolls	3,9	4	9
	610208	Banda refuerzo pulpo	0,066x10 rolls	3,9	8	9

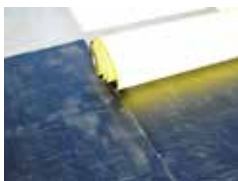
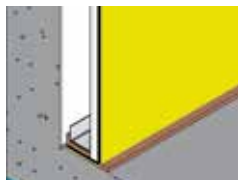
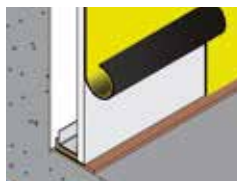
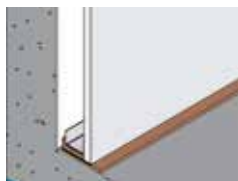
INSTALLATION



FONODAN® 900

It is a two layer material made of a self-adhesive high density bitumen based membrane and a thermally bonded cross linked polyethylene.

	Code	Commercial name	Size (m)	Thickness (mm)	sqm/pallet	Acoustic improvement (dB)
	610201	FONODAN 900	10x0,92 rolls	3,9	23,75	> 3

INSTALLATION (FLOORS)

INSTALLATION (IN PLASTERBOARDS)

LEGAL ADVISE

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