



RECOMA

Wall Systems

Security Walls

CE + RECOMA + 240520955 +

Security walls with Packwall

In this document, you will find all wall systems with Packwall that meet security class 2 according to SSF 1047, 3rd edition. Security class 2 is achieved when two layers of 12 mm Recoma Packwall are installed on the attack side of the framework (wood or steel, minimum 45x70 mm), with a maximum c/c of 450 mm. The certificate was issued by SBSC with the certification number 26-452. For SK2 from both sides, two layers of Recoma Packwall are required on each side of the stud.

Not all wall systems have undergone all tests, therefore some values are missing for certain configurations. If you have any questions regarding a wall system or its performance, you are very welcome to contact us.



NB 3062



Ackred. nr. 10445
Provning
ISO/IEC 17025



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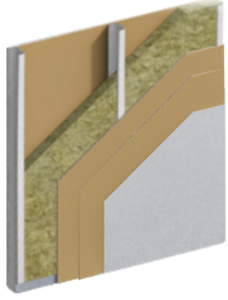
**70mm Steel stud
with no insulation**

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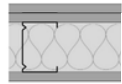
**Wall systems with air cavity and
gypsum board**

95mm Steel stud with no insulation





Steel stud + Rockwool



Construction

2x 12.5mm RECOMA PackWall
70mm MR steel studs + Rockwool insulation
12.5mm RECOMA PackWall

Acoustic
rating**

56 Rw (dB)

Fire
rating**

GWP Total
CO2e kg/m2*

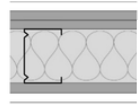
-25,8

GWP Fossil
CO2e kg/m2*

7,4

Security Class

SK2



12.5mm plasterboard
2x 12.5mm RECOMA PackWall
70mm MR steel studs + Rockwool insulation
12.5mm RECOMA PackWall
12.5mm plasterboard

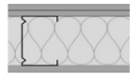
60 Rw (dB)

EI 90

-22,6

11,8

SK2



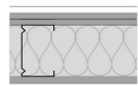
2x 12.5mm RECOMA PackWall
95mm MR steel studs + Rockwool insulation
12.5mm RECOMA PackWall

59 Rw (dB)

-24,6

8,6

SK2



12.5mm plasterboard
2x 12.5mm RECOMA PackWall
95mm MR steel studs + Rockwool insulation
12.5mm RECOMA PackWall
12.5mm plasterboard

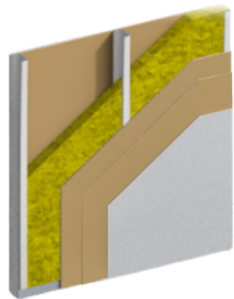
62 Rw (dB)

EI 90

-21,4

13,0

SK2



Steel stud + Mineral wool

Construction

2x 12mm RECOMA PackWall
95mm C+ studs
12mm RECOMA PackWall

Acoustic
rating**

47 Rw (dB)

Fire
rating**

GWP Total
CO2e kg/m2*

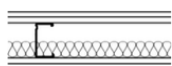
-28,6

GWP Fossil
CO2e kg/m2*

4,7

Security Class

SK2



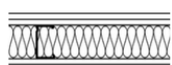
2x 12mm RECOMA PackWall
95mm C+ studs with 45mm mineral wool
12 mm RECOMA PackWall

54 Rw (dB)

-26,7

6,5

SK2



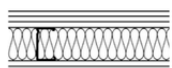
2x 12mm RECOMA PackWall
95mm C+ studs with 95mm mineral wool
12mm RECOMA PackWall

56 Rw (dB)

-24,6

8,6

SK2



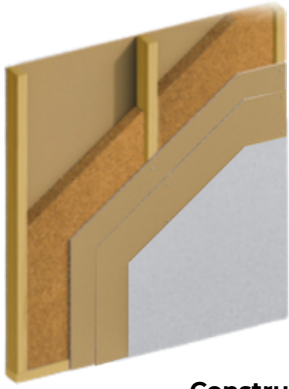
13mm plasterboard
2x 12mm RECOMA PackWall
95mm C+ studs with 95mm mineral wool
12mm RECOMA PackWall
13mm plasterboard

61 Rw (dB)

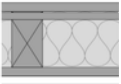
-21,4

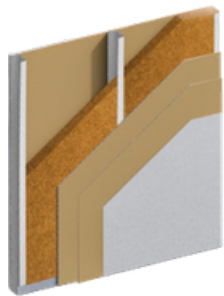
13,0

SK2

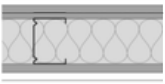
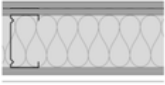


Wood stud + Hunton Nativo

	Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
	2x 12,5mm RECOMA PackWall 70mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall	49 Rw (dB)		-40,9	2,5	SK2
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 70mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard	51 Rw (dB)	EI 60	-37,7	6,9	SK2
	2x 12,5mm RECOMA PackWall 95mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall	49 Rw (dB)		-42,4	2,8	SK2
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 95mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard	53 Rw (dB)	EI 60	-39,2	7,2	SK2

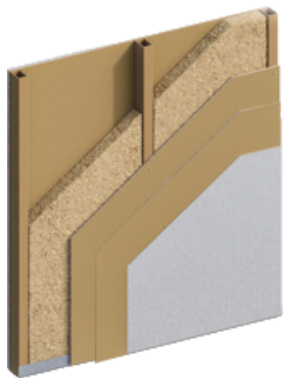


Steel stud + Hunton Nativo

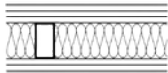
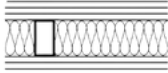
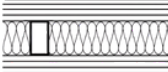
	Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
	2x 12,5mm RECOMA PackWall 70mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall	55 Rw (dB)		-33,0	5,4	SK2
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 70mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard	59 Rw (dB)	EI 60	-29,8	9,7	SK2
	2x 12,5mm RECOMA PackWall 95mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall	57 Rw (dB)		-34,3	5,8	SK2
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 95mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard	60 Rw (dB)	EI 60	-31,2	10,2	SK2
	2x 12mm RECOMA PackWall 70mm steel studs + 45mm Hunton Nativo 12mm RECOMA PackWall	54 Rw (dB)		-31,5	5,0	SK2
	12mm plasterboard 2x 12mm RECOMA PackWall 70mm steel studs + 45mm Hunton Nativo 12mm RECOMA PackWall 12mm plasterboard	59 Rw (dB)	EI 60	-28,3	9,4	SK2

* Data from ProdiKT.com (A1-A3 GWP)

** Fire and acoustic results on 70 & 95mm frames are also valid on 120mm constructions

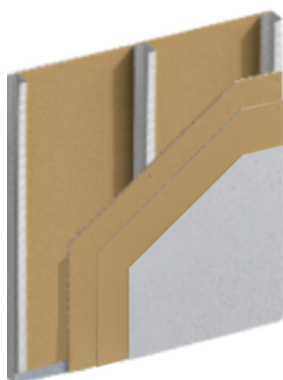


Greenwall

Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
 2x 12.5mm RECOMA PackWall 70mm Wood Tube studs with Ekolution HF 2x 12.5mm RECOMA PackWall	52 Rw (dB)		-49,1	3,1	SK2
 12.5mm plasterboard 2x 12.5mm RECOMA PackWall 70mm Wood Tube studs with Ekolution HF 12.5mm RECOMA PackWall 12.5mm plasterboard	54 Rw (dB)	EI 60	-35,4	7,0	SK2
 2x 12.5mm plasterboard 2x 12.5mm RECOMA PackWall 70mm Wood Tube studs with Ekolution HF 12.5mm RECOMA PackWall 2x 12.5mm plasterboard	57 Rw (dB)	EI 120	-32,2	11,4	SK2



WALL SYSTEMS - Sound Reduction Index



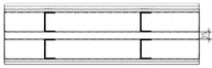
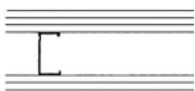
70mm Steel stud with no insulation

Construction	Acoustic rating	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
 12.5mm plasterboard 2x 12mm RECOMA PackWall 70mm MR steel studs (no insulation)	37 Rw (dB)	-16,4	6,4	SK2
 2x 12mm RECOMA PackWall 70mm MR steel studs (no insulation) 12mm RECOMA PackWall	45 Rw (dB)	-28,6	4,7	SK2
 12.5mm plasterboard 2x 12mm RECOMA PackWall 70mm MR steel studs (no insulation) 12mm RECOMA PackWall 12.5mm plasterboard	54 Rw (dB)	-25,4	9,0	SK2

* Data from ProdiKT.com (A1-A3 GWP)

** Fire and acoustic results on 70 & 95mm frames are also valid on 120mm constructions

Wall systems with air cavity and gypsum board

Construction		Acoustic rating	Fire rating	Security Class
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 2x 95mm C+ steel studs 12,5mm RECOMA PackWall 12,5mm plasterboard	66 Rw (dB)		SK2
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 2x 70mm C+ steel studs 12,5mm RECOMA PackWall 12,5mm plasterboard	62 Rw (dB)	EI 30	SK2
	12,5mm plasterboard 2x 12,5mm RECOMA PackWall 95mm C+ steel studs 12,5mm RECOMA PackWall 12,5mm plasterboard	54 Rw (dB)		SK2

95mm Steel stud with no insulation

Construction		Acoustic rating	Security Class
	2x 12,5mm RECOMA PackWall 95mm C+ steel studs 12,5mm RECOMA PackWall	47 Rw (dB)	SK2