



# 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. 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 and in accordance with the specified screw pattern and anchoring (Appendix 2 in test report P124519 Rev2 by RI.SE). 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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**Greenwall**

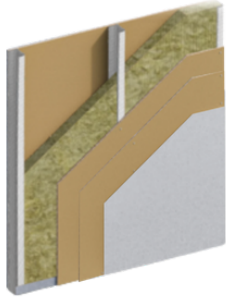
**70mm Steel stud  
with no insulation**

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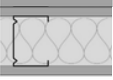
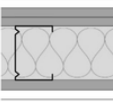
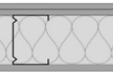

**Wall systems with air cavity and  
gypsum board**

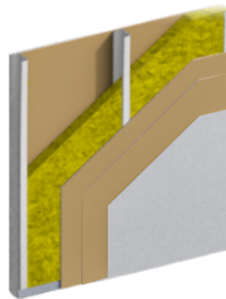
**95mm Steel stud with no insulation**




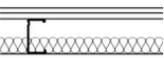
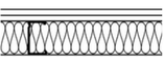



## Steel stud + Rockwool

Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
 <p>2x 12,5mm RECOMA PackWall 70mm MR steel studs + Rockwool insulation 12,5mm RECOMA PackWall</p>	<b>56 Rw (dB)</b>		<b>-27,7</b>	<b>5,7</b>	<b>SK2</b>
 <p>12,5mm plasterboard 2x 12,5mm RECOMA PackWall 70mm MR steel studs + Rockwool insulation 12,5mm RECOMA PackWall 12,5mm plasterboard</p>	<b>60 Rw (dB)</b>	<b>EI 90</b>	<b>-24,5</b>	<b>10,1</b>	<b>SK2</b>
 <p>2x 12,5mm RECOMA PackWall 95mm MR steel studs + Rockwool insulation 12,5mm RECOMA PackWall</p>	<b>59 Rw (dB)</b>		<b>-27,7</b>	<b>5,7</b>	<b>SK2</b>
 <p>12,5mm plasterboard 2x 12,5mm RECOMA PackWall 95mm MR steel studs + Rockwool insulation 12,5mm RECOMA PackWall 12,5mm plasterboard</p>	<b>62 Rw (dB)</b>	<b>EI 90</b>	<b>-24,5</b>	<b>10,1</b>	<b>SK2</b>



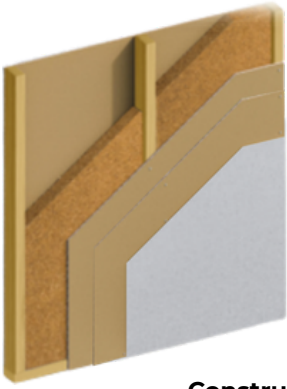
## Steel stud + Mineral wool





Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
 <p>2x 12mm RECOMA PackWall 95mm C+ studs 12mm RECOMA PackWall</p>	<b>47 Rw (dB)</b>		<b>-28,6</b>	<b>4,7</b>	<b>SK2</b>
 <p>2x 12mm RECOMA PackWall 95mm C+ studs with 45mm mineral wool 12 mm RECOMA PackWall</p>	<b>54 Rw (dB)</b>		<b>-28,1</b>	<b>5,2</b>	<b>SK2</b>
 <p>2x 12mm RECOMA PackWall 95mm C+ studs with 95mm mineral wool 12mm RECOMA PackWall</p>	<b>56 Rw (dB)</b>		<b>-27,7</b>	<b>5,7</b>	<b>SK2</b>
 <p>13mm plasterboard 2x 12mm RECOMA PackWall 95mm C+ studs with 95mm mineral wool 12mm RECOMA PackWall 13mm plasterboard</p>	<b>61 Rw (dB)</b>		<b>-24,5</b>	<b>10,1</b>	<b>SK2</b>

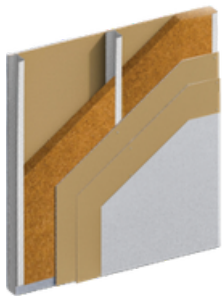
\* Data from ProdiKt.com (A1-A3 GWP)

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







## Wood stud + Hunton Nativo



Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
 <p>2x 12,5mm RECOMA PackWall 70mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall</p>	<b>49 Rw (dB)</b>		<b>-41,2</b>	<b>2,7</b>	<b>SK2</b>
 <p>12,5mm plasterboard 2x 12,5mm RECOMA PackWall 70mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard</p>	<b>51 Rw (dB)</b>	<b>EI 60</b>	<b>-38,0</b>	<b>7,1</b>	<b>SK2</b>
 <p>2x 12,5mm RECOMA PackWall 95mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall</p>	<b>49 Rw (dB)</b>		<b>-41,2</b>	<b>2,7</b>	<b>SK2</b>
 <p>12,5mm plasterboard 2x 12,5mm RECOMA PackWall 95mm wood studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard</p>	<b>53 Rw (dB)</b>	<b>EI 60</b>	<b>-38,0</b>	<b>7,1</b>	<b>SK2</b>



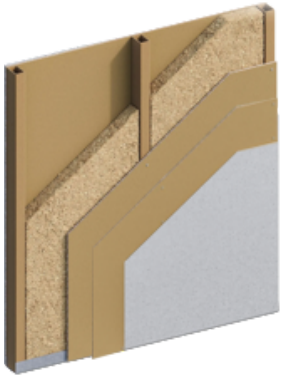
## Steel stud + Hunton Nativo

Construction	Acoustic rating**	Fire rating**	GWP Total CO2e kg/m2*	GWP Fossil CO2e kg/m2*	Security Class
 <p>2x 12,5mm RECOMA PackWall 70mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall</p>	<b>55 Rw (dB)</b>		<b>-33,2</b>	<b>5,7</b>	<b>SK2</b>
 <p>12,5mm plasterboard 2x 12,5mm RECOMA PackWall 70mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard</p>	<b>59 Rw (dB)</b>	<b>EI 60</b>	<b>-30,0</b>	<b>10,1</b>	<b>SK2</b>
 <p>2x 12,5mm RECOMA PackWall 95mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall</p>	<b>57 Rw (dB)</b>		<b>-33,2</b>	<b>5,7</b>	<b>SK2</b>
 <p>12,5mm plasterboard 2x 12,5mm RECOMA PackWall 95mm steel studs + Hunton Nativo 12,5mm RECOMA PackWall 12,5mm plasterboard</p>	<b>60 Rw (dB)</b>	<b>EI 60</b>	<b>-30,0</b>	<b>10,1</b>	<b>SK2</b>
 <p>2x 12mm RECOMA PackWall 70mm steel studs + 45mm Hunton Nativo 12mm RECOMA PackWall</p>	<b>54 Rw (dB)</b>		<b>-33,2</b>	<b>5,7</b>	<b>SK2</b>
 <p>12mm plasterboard 2x 12mm RECOMA PackWall 70mm steel studs + 45mm Hunton Nativo 12mm RECOMA PackWall 12mm plasterboard</p>	<b>59 Rw (dB)</b>	<b>EI 60</b>	<b>-30,0</b>	<b>10,1</b>	<b>SK2</b>

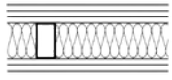
\* Data from ProdiKt.com (A1-A3 GWP)

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

# Greenwall



## Construction



2x 12.5mm RECOMA PackWall  
70mm Wood Tube studs with Ekolution HF  
2x 12.5mm RECOMA PackWall

Acoustic  
rating\*\*

**52 Rw (dB)**

Fire  
rating\*\*

GWP Total  
CO2e kg/m2\*

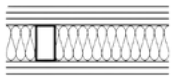
**-49,1**

GWP Fossil  
CO2e kg/m2\*

**3,1**

Security Class

**SK2**



12.5mm plasterboard  
2x 12.5mm RECOMA PackWall  
70mm Wood Tube studs with Ekolution HF  
12.5mm RECOMA PackWall  
12.5mm plasterboard

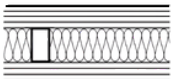
**54 Rw (dB)**

**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**

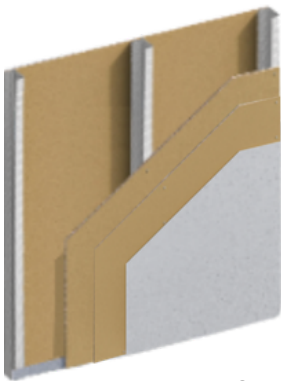
**-32,2**

**11,4**

**SK2**



## WALL SYSTEMS - Sound Reduction Index



# 70mm Steel stud with no insulation

## Construction



12.5mm plasterboard  
2x 12mm RECOMA PackWall  
70mm MR steel studs (no insulation)

Acoustic  
rating

**37 Rw (dB)**

GWP Total  
CO2e kg/m2\*

**-16,4**

GWP Fossil  
CO2e kg/m2\*

**6,4**

Security Class

**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**

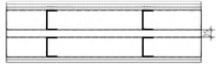
**SK2**

\* Data from ProdiKt.com (A1-A3 GWP)

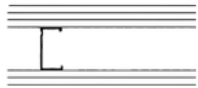
\*\* Fire and acoustic results on 70 & 95mm frames are also valid on 120mm constructions

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


12,5mm plasterboard  
2x 12,5mm RECOMA PackWall  
2x 95mm C+ steel studs  
12,5mm RECOMA PackWall  
12,5mm plasterboard

**Acoustic rating**
**66 Rw (dB)**
**Fire rating**
**EI 30**
**Security Class**
**SK2**


12,5mm plasterboard  
2x 12,5mm RECOMA PackWall  
2x 70mm C+ steel studs  
12,5mm RECOMA PackWall  
12,5mm plasterboard

**62 Rw (dB)**
**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**


2x 12,5mm RECOMA PackWall  
95mm C+ steel studs  
12,5mm RECOMA PackWall

**Acoustic rating**
**47 Rw (dB)**
**Security Class**
**SK2**