

## AGEPAN<sup>®</sup> SYSTEM – THE RIGHT CHOICE WHEN IT COMES TO FIRE PROTECTION AND SOUND INSULATION!



### FIRE PROTECTION FOR A SAFE HOME!

Structural fire protection is indispensable in modern timber frame construction, as safety is the top priority. AGEPAN<sup>®</sup> SYSTEM superstructures can also be relied on in this area.

Applied in the system - our constructions have passed the fire protection tests. Based on the fire resistance tests carried out at MFPA Leipzig GmbH (Institute for Materials Research and Testing for the Construction Industry), we have successfully verified load-bearing, space-enclosing timber stud wall constructions according to DIN 4102-2 (1977-09) and DIN EN 13501-2 (2010-2).

- Comprehensively tested fire protection system structures
- Exceptional strength
- Load-bearing

## FIRE PROTECTION EXAMPLES OF TESTED STRUCTURES

|                                                                                                                                   | STRUCTURE | PRODUCT                 | THICKNESS [mm] |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|----------------|
|  <p>P-SAC-02-III-712<br/>F 60-B (REI 60)</p>     | INTERIOR  | Gypsum board            | ≥ 12,5         |
|                                                                                                                                   |           | AGEPAN® THD Install     | ≥ 40           |
|                                                                                                                                   |           | AGEPAN® OSB 3 Ecoboard® | ≥ 15           |
|                                                                                                                                   |           | Solid structural timber | ≥ 60 x 140     |
|                                                                                                                                   |           | Mineral wool (rockwool) | ≥ 140          |
|                                                                                                                                   | EXTERIOR  | AGEPAN® DWD protect     | 16             |
|  <p>P-SAC-02-III-712<br/>F 60-B (REI 60)</p>    | INTERIOR  | Gypsum board            | ≥ 12,5         |
|                                                                                                                                   |           | AGEPAN® THD Install     | ≥ 40           |
|                                                                                                                                   |           | AGEPAN® OSB 3 Ecoboard® | ≥ 15           |
|                                                                                                                                   |           | Solid structural timber | ≥ 60 x 140     |
|                                                                                                                                   |           | Mineral wool (rockwool) | ≥ 140          |
|                                                                                                                                   | EXTERIOR  | AGEPAN® UDP T+G         | ≥ 22           |
|  <p>P-SAC-02-III-713<br/>F 90-B (REI 90)</p>   | INTERIOR  | Gypsum board            | ≥ 12,5         |
|                                                                                                                                   |           | AGEPAN® THD Install     | ≥ 40           |
|                                                                                                                                   |           | AGEPAN® OSB 3 Ecoboard® | ≥ 15           |
|                                                                                                                                   |           | Solid structural timber | ≥ 60 x 140     |
|                                                                                                                                   |           | Mineral wool (rockwool) | ≥ 140          |
|                                                                                                                                   |           | AGEPAN® THD Putz 050    | ≥ 40           |
|                                                                                                                                   | EXTERIOR  | Mineral plaster system  | 10             |
|  <p>P-SAC-02-III-1112<br/>F 30-B (REI 90*)</p> | INTERIOR  | Gypsum board            | ≥ 12,5         |
|                                                                                                                                   |           | AGEPAN® THD Install     | ≥ 60           |
|                                                                                                                                   |           | AGEPAN® OSB 3 Ecoboard® | ≥ 15           |
|                                                                                                                                   |           | Solid structural timber | ≥ 60 x 200     |
|                                                                                                                                   |           | Cellulose (Isocell)     | ≥ 200          |
|                                                                                                                                   | EXTERIOR  | AGEPAN® THD T+G         | ≥ 60           |
|  <p>P-SAC-02-III-1110<br/>F 30-B (REI 30*)</p> | INTERIOR  | AGEPAN® OSB 3 Ecoboard® | ≥ 15           |
|                                                                                                                                   |           | Solid structural timber | ≥ 60 x 200     |
|                                                                                                                                   | EXTERIOR  | Cellulose (Isocell)     | ≥ 200          |
|                                                                                                                                   |           | AGEPAN® DWD protect     | 16             |
|                                                                                                                                   |           |                         |                |

Test certificates will be provided to you on request.

\* Classification DIN EN 13501-2:2016-12

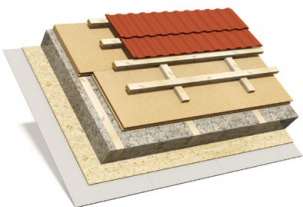
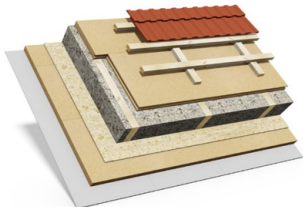


## SOUND INSULATION FOR A QUIET HOME!

When it comes to sound insulation, we have plenty to offer as well. Noise pollution can be significantly reduced by our system constructions. The efficient use of tested system structures helps to achieve an excellent sound insulation and provides a pleasantly quiet home.

- Tested sound insulating system structures according to DIN EN ISO 10140-2 in accordance with requirements to DIN 4109
- Exceptional sound insulating properties due to the asymmetrical THD bulk density profile
- Effective sound insulation due to an absorbing fibre structure

## SOUND INSULATION EXAMPLES OF TESTED STRUCTURES

|                                                                                                                                                                    | STRUCTURE | PRODUCT                           | THICKNESS [mm]        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------|-----------------------|
|  <p>Exterior wall <math>R_{w,P} = 50</math> dB<br/>F 90-B (REI 90)</p>            | INTERIOR  | Gypsum board                      | $\geq 12,5$           |
|                                                                                                                                                                    |           | AGEPAN® THD Install               | $\geq 60$             |
|                                                                                                                                                                    |           | AGEPAN® OSB 3 Ecoboard®           | $\geq 15$             |
|                                                                                                                                                                    |           | Solid structural timber           | $\geq 60 \times 140$  |
|                                                                                                                                                                    |           | Mineral wool (rockwool)           | $\geq 140$            |
|                                                                                                                                                                    |           | AGEPAN® THD Putz 050              | $\geq 40$             |
|  <p>P-SAC 02/IV/17-013-2<br/>Roof – new build <math>R_{w,P} = 50</math> dB</p>   | INTERIOR  | Gypsum board                      | $\geq 12,5$           |
|                                                                                                                                                                    |           | AGEPAN® OSB 3 Ecoboard®           | $\geq 15$             |
|                                                                                                                                                                    |           | Rafters (solid structural timber) | $\geq 80 \times 200$  |
|                                                                                                                                                                    |           | Cellulose (Isocell)               | $\geq 200$            |
|                                                                                                                                                                    |           | AGEPAN® THD T+G                   | $\geq 80$             |
|                                                                                                                                                                    |           | Support and counter battens       | $\geq 60 \times 40$   |
|  <p>P-SAC 02/IV/17-013-3<br/>Roof – renovation <math>R_{w,P} = 49</math> dB</p> | INTERIOR  | Roof tiles                        |                       |
|                                                                                                                                                                    |           | Gypsum board                      | $\geq 12,5$           |
|                                                                                                                                                                    |           | AGEPAN® THD Install               | $\geq 60$             |
|                                                                                                                                                                    |           | AGEPAN® OSB 3 Ecoboard®           | $\geq 15$             |
|                                                                                                                                                                    |           | Rafters (solid structural timber) | $\geq 100 \times 160$ |
|                                                                                                                                                                    |           | Cellulose (Isocell)               | $\geq 160$            |
|                                                                                                                                                                    | EXTERIOR  | AGEPAN® THD T+G                   | $\geq 80$             |
|                                                                                                                                                                    |           | Support and counter battens       | $\geq 60 \times 40$   |
|                                                                                                                                                                    |           | Roof tiles                        |                       |
|                                                                                                                                                                    |           |                                   |                       |

Test certificates will be provided to you on request.