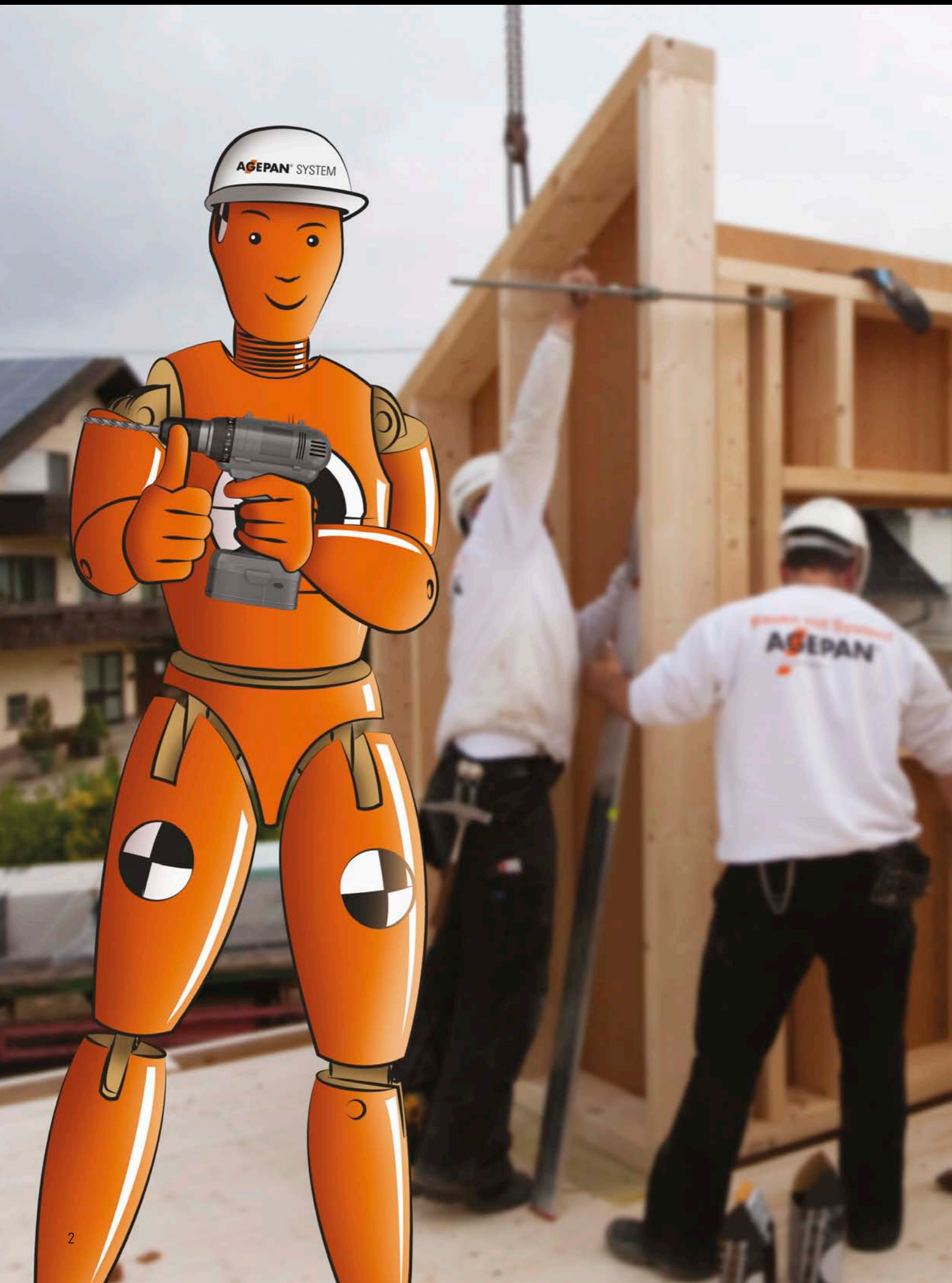




**WELCOME TO THE  
WORLD OF THE  
AGEPAN<sup>®</sup> SYSTEM!**



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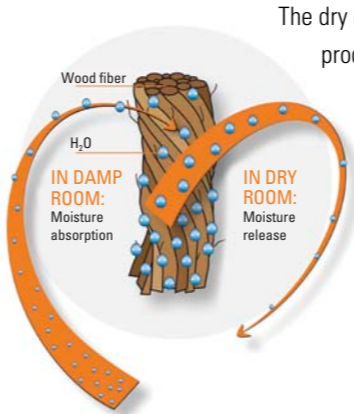
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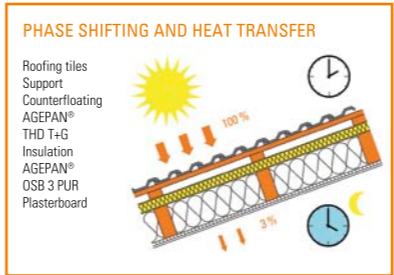
# AGEPAN® SYSTEM – Fibreboard material as a construction element

Houses have been built from wood for centuries. Whether you are looking to build a detached house or an apartment building in the city or a cottage in the country – fibreboard panels are an excellent construction material for people wishing to fulfil the dream of building their own home.

When building a home, the focus is more than ever on healthy living, functionality and custom design options. Fibreboard materials present no health risk, are environmentally-friendly and convey a feeling of comfort unmatched by any other construction material.



The dry construction method used with AGEPAN® SYSTEM products generates considerably less noise and dust, enabling extensions or building projects in narrow spaces. The quick construction method reduces the length of the financing period for constructors, subsequently saving money. Other potential savings are those of energy costs. Homes built with the AGEPAN® SYSTEM offer excellent insulation values even with thin wall thickness and create additional space.



External construction elements insulated with the AGEPAN® SYSTEM prevent thermal bridges and the formation of condensation on inside walls. Rooms are also kept cool during hot summer months. AGEPAN® SYSTEM products absorb heat during the day and demonstrate a positive phase shift. The stored heat is only released at night when temperatures are at

their coolest. The wood fibres also either absorb or release moisture depending on the relative humidity of the ambient air. This guarantees an optimum indoor climate – particularly for rooms under the roof.



The large majority of panel elements can be prefabricated, unaffected by weather conditions



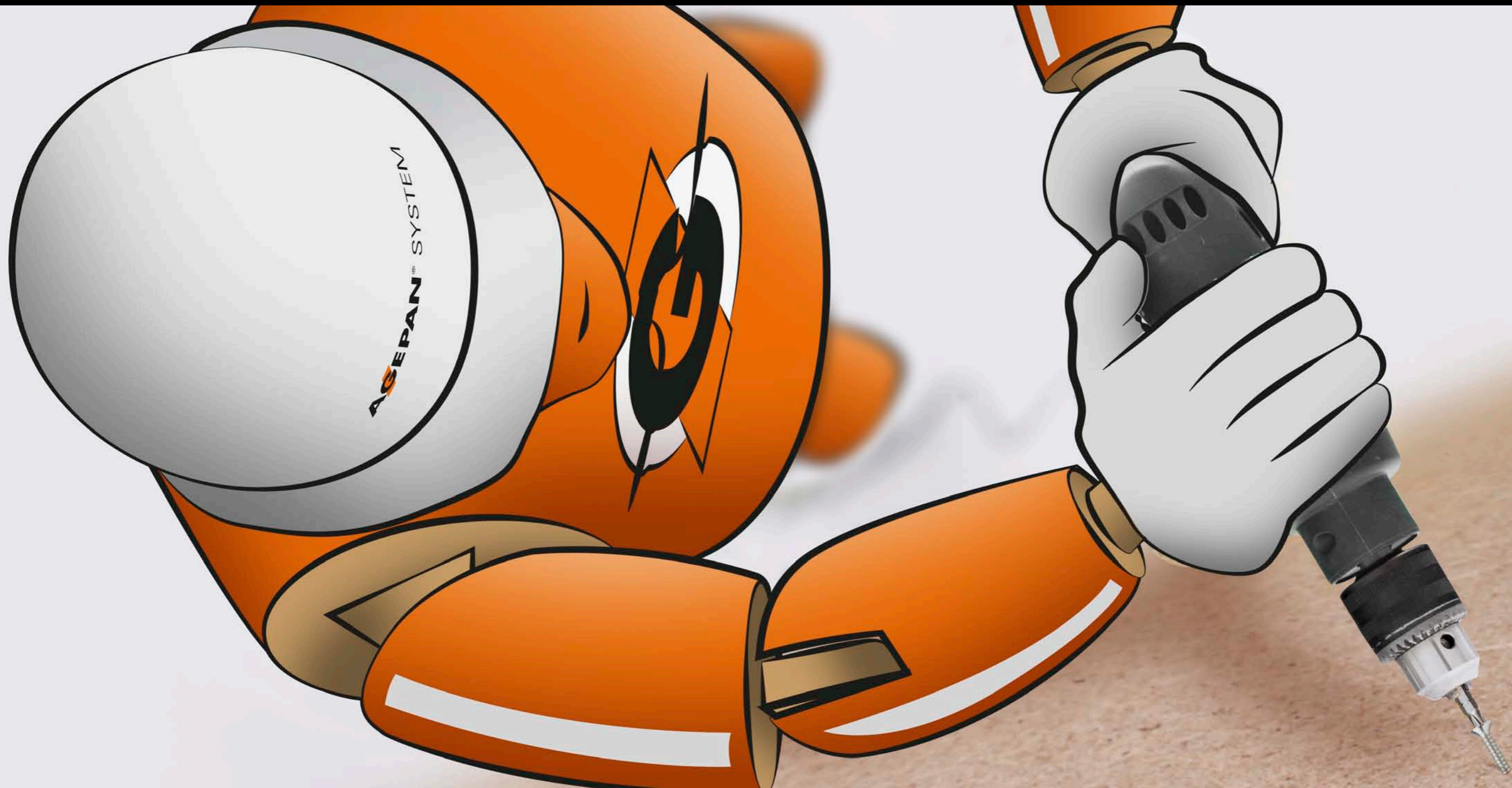
The walls are only half as thick as brick walls but offer better thermal insulation. This offers extra living space with the same surface area



A comfortable indoor climate: a general feeling of well-being, no cold walls

## ATTRACTIVE CONSTRUCTIONS USING THE AGEPAN® SYSTEM:





Pressure-resistant and stable –  
Works harder!

**AGEPAN® SYSTEM construction material offers natural resistance. Our wood fibreboard insulation materials are known for their outstanding compressive strength, load capacity and durability – despite weighing very little.**

The manufacturing process of THD products, for example, is behind the innovative asymmetrical bulk density profile, whose particularly solid surface guarantees the excellent stability of insulation panels. The AGEPAN® SYSTEM works harder!





## Sustainability with AGEPAN® SYSTEM products – Building homes for healthy living

**We attach great importance to sustainability. The environmental management of all production sites is certified according to international standards (DIN EN ISO 14001).**

The PEFC™ certificate according to the Programme for the Endorsement of Forest Certification Schemes demonstrates that we only procure and process wood from sustainably managed and carefully-controlled sources.

AGEPAN® SYSTEM products have also been awarded the IBU seal from the German Institute for Construction and the Environment, confirming responsible handling of timber for sustainable building materials and products.

The Environmental Product Declaration (EPD) from the IBU offers a transparent insight into product information. EPDs form the data basis for ecological building assessment according to DIN EN 15978 and are based on international standards (ISO 14025; ISO 14040ff) and the European standard DIN EN 15804. The recognised Ecolabel (type III) also guarantees ecologically responsible practices throughout the entire production process.

Our AGEPAN® wood fibreboard insulation materials are also rated with an A+ label, which is the best emission class according to French legislation on VOC.



Förderung  
nachhaltiger  
Waldwirtschaft  
[www.pefc.de](http://www.pefc.de)



\* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, en fonction du risque de santé par inhalation, sur une échelle de classe allant de A+ (très faible émission) à C (forte émission).





## Our commitment – Quality at its best

**AGEPAN® SYSTEM** aims to provide the best possible quality in all aspects of construction.

Quality certification is an integral part of our philosophy on continual improvement and customer focus.

We comply with internationally-recognised standards when it comes to health and safety and environmental and quality management. This is certified by Dekra, who has issued OHSAS 18001:2007, ISO 14001:2004 and ISO 9001:2008 certificates.

German technical approval certificates and CE certification at product level also confirm continual compliance with national and international quality standards – product excellence “Made in Germany”.





**AGEPAN<sup>®</sup> SYSTEM**



From floor to ceiling –  
A complete one-stop solution

**Perfectly compatible components such as AGEPAN<sup>®</sup> OSB PUR panels and AGEPAN<sup>®</sup> insulating fibreboards enable the creation of vapour-permeable ceiling and wall construction elements – without the use of foil.**

Whether used in new builds, renovations or extensions, AGEPAN<sup>®</sup> SYSTEM products score top points in almost all construction activities. The wood-based panels are assembled into tried and tested system construction elements and are ideal for use in the roof, wall and floor. All construction elements come from a single source and are perfectly compatible – making construction work much simpler and enabling quicker and easier handling.

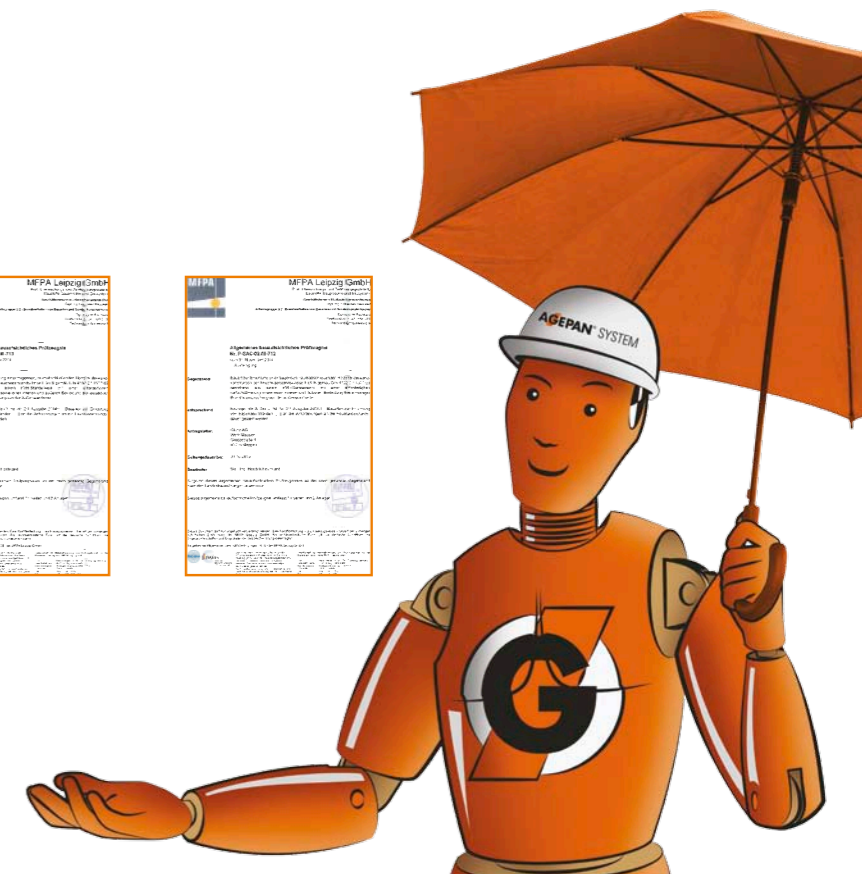
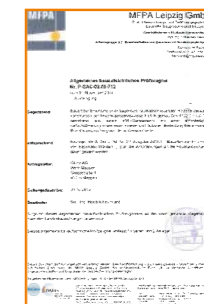
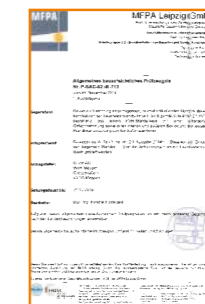


## AGEPAN® SYSTEM – Wind and weather resistant

**Whatever the weather has in store, AGEPAN® SYSTEM products always demonstrate a heavy load capacity and durability during installation and the final result offers outstanding protection from outer elements, such as sun, rain, wind, snow and hail.**

When roof tiles are broken by hailstones or blown off in a storm, our AGEPAN® SYSTEM products offer a second water-repellent layer: windtight, hail-resistant, rainproof, vapour-permeable and sound-absorbing. Our products AGEPAN® DWD protect T+G and AGEPAN® THD T+G have been officially certified as offering hail impact resistance by the IBS Institut für Brandschutztechnik und Sicherheitsforschung GmbH (Institute for Fire Protection and Safety Research).

We have also achieved excellent results with different wall structures in fire resistance tests (MFPA Leipzig GmbH – Institute for Materials Research and Testing for Civil Engineering).





# System Products



**AGEPAN® DWD protect T+G**  
The original



**AGEPAN® UDP T+G**  
The stable sarking board for roof and wall



**AGEPAN® THD T+G**  
The insulation specialist for new builds and renovation



**AGEPAN® THD Static**  
New options for wooden constructions



**AGEPAN® THD Static Putz**  
The structural insulating panel in the thermal insulation system



**AGEPAN® THD Install**  
The alternative to the conventional installation layer



**AGEPAN® THD Putz 050**  
The insulating panel in the composite thermal insulation system



**AGEPAN® THDxl T+G**  
The strong panel



**AGEPAN® TSR**  
The universal insulating fibreboard panel



**AGEPAN® Flex**  
The insulating panel for new builds and renovation



**AGEPAN® TEP**  
The dry screed panel



**AGEPAN® OSB PUR**  
The universal load-bearing panel



**P3 Particleboard Flooring Panel**  
The universal flooring panel



**AGEPAN® Floor System**  
The complete flooring solution

# AGEPAN® DWD protect

## The Original

AGEPAN® DWD protect is a vapour-permeable MDF.RWH fibreboard (EN 622-5), which complies with the German technical approval certificate Z-9.1-382 and the European standard DIN EN14964. Our AGEPAN® DWD protect offers greater protection from moisture penetration due to improved surface protection. It ensures break and bend reinforcement when used as load-bearing and structural sheathing and acts as a second water-repellent layer.

## ADVANTAGES

- Available with butt edge and T+G profile
- Special large size available with T+G profile along the length
- Vapour-permeable, windtight and rainproof
- Solid sheathing and second water-repellent layer
- Improved surface protection against new build moisture
- F60-B (REI 60) constructions in AGEPAN® SYSTEM
- Quick and efficient to work with, and cost-saving prefabrication possible
- Good tape adhesion
- Emergency roof solution for max. 8 weeks in event of exposure to elements and after storm damage
- Hail resistance class as tested by the IBS Institute
- No nail sealing tape required as defined by ZVDH (Central Federation of German Roofing Contractors)
- High quality confirmed by regular, external inspections
- Optimum room climate due to moisture-regulating properties
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Formaldehyde-free glued
- Made in Germany
- Rated with an A+ label: the best emission class according to French legalisation on VOC
- Resistance to rodents attack officially confirmed
- Resistance against salt spray exposure

## AREAS OF APPLICATION

- Break and bend reinforcement
- Load-bearing and structural roof and wall sheathing
- Structural use in compliance with the German technical approval certificate Z-9.1-725
- Stable sarking board and second water-repellent layer
- Sarking board in compliance with ZVDH regulations: UDP-A, acc. to EN 14964: type IL
- It is not recommended to use the product for porch roofs and uninsulated buildings
- Avoid cold uninsulated roof constructions and attics

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® DWD protect can be used as load-bearing and structural sheathing for roof and wall frames subject to in-plane shear forces, in compliance with DIN 1052 / DIN EN 1995-1-1 in conjunction with the National Application Document (NAD). AGEPAN® DWD protect T+G offers a high degree of wind and rain proofing over its surface and at the panel joints, thanks to four-edge tongue and groove jointing. Only trimmed edges and penetrations require taping. AGEPAN® DWD protect does not require the use of primers with several adhesive tapes (e. g. pro clima® Tescon Vana, Ampack Ampacol XT and Siga Wigluv®). Please observe the respective manufacturer's instructions. Panels are fastened to counter battens in the rafters or according to the planner's specifications. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM, particularly with regard to 'walk-on' resistance.



# AGEPAN® UDP T+G



## The stable roof and wall sarking panel

The particularly stable and moisture-resistant AGEPAN® UDP T+G is an insulating fibreboard panel manufactured in a dry process, with a tongue and groove profile on all four sides, which complies with DIN EN 13171. Wood fibres are amalgamated with a formaldehyde-free PUR bonding agent and compressed into uniform insulating fibreboards with an even bulk density profile in our special production process, rendering the surface of our AGEPAN® UDP T+G particularly robust. It is also entirely hydrophobic, vapour-permeable and hygroscopic, and can therefore be used as sarking board in compliance with ZVDH regulations. It is used to minimise thermal bridges in roof and wall areas with rear-ventilated cladding.

## ADVANTAGES

- Windtight and water-repellent
- Vapour-permeable:  $sd \leq 0,2$  m
- Particularly solid and robust due to even bulk density profile
- Thermal-insulating and sound-absorbing
- AGEPAN® UDP T+G can be plastered in window and door jambs
- F60-B (REI 60) constructions in AGEPAN® SYSTEM
- Good tape adhesion
- Emergency roof solution for max. 8 weeks in event of exposure to elements and after storm damage
- No nail sealing tape required as defined by ZVDH (Central Federation of German Roofing Contractors)
- Little waste as panels can be turned sideways
- High quality confirmed by regular, external inspections
- Optimum room climate due to moisture-regulating properties
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Formaldehyde-free glued
- Made in Germany
- Rated with an A+ label: the best emission class according to French legalisation on VOC

## AREAS OF APPLICATION

- External roof and wall sheathing
- Sarking board in compliance with ZVDH regulations: UDP-A
- Second water-repellent layer in various constructions
- Jamb panel can be plastered
- Areas of application in compliance with DIN 4108-10 table 13: DAD-ds / DI-dm / DEO -ds / WAB-ds / WI-dm / WH

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® UDP T+G offers a high degree of wind and rain proofing over its surface and at the panel joints, thanks to four-edge tongue and groove jointing. Only trimmed edges and penetrations require taping. Suitable adhesive tapes (e. g. Ampack Ampacol XT, pro clima® Tescon Vana und Siga Wigluv®) must always be used along with their respective primer. Please observe the respective manufacturer's instructions. The insulating fibreboard panels can be easily fastened to the support structure with broad back staples (e. g. from haubold®) or wood construction screws. Panels are fastened to counter battens in the rafters or according to the planner's specifications. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM, particularly with regard to 'walk-on' resistance.



Now also available in large format  
AGEPAN® THDmax in 6000 x 2500 mm!

# AGEPAN® THD T+G



## The insulation specialist for new builds and renovation

AGEPAN® THD T+G is an insulating fibreboard panel manufactured in a dry process with a tongue and groove profile on all four sides, which complies with DIN EN 13171 and the German technical approval certificate Z-23.15-1508. AGEPAN® THD T+G is also entirely hydrophobic, vapour-permeable and hygroscopic, and can therefore be used as sarking board in compliance with ZVDH regulations. It is used as over-rafter insulation and sarking, as well as as external sheathing when creating roof and wall elements, or as internal insulation. The excellent properties of AGEPAN® THD T+G are officially certified by the Öko-Test label.

## ADVANTAGES

- Vapour-permeable, windtight, rainproof and water-repellent
- Particularly solid due to asymmetrical bulk density profile
- Minimisation of thermal bridges
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Particularly stable and moisture-resistant, thus no panel sag
- Especially suited to the prefabrication of elements and for on-site assembly
- F90-B (REI 90) constructions in AGEPAN® SYSTEM
- Good tape adhesion
- Emergency roof solution for max. 8 weeks in event of exposure to elements and after storm damage
- New, improved T+G profile
- Now also available in 50 mm
- No nail sealing tape required as defined by ZVDH (Central Federation of German Roofing Contractors)
- High quality confirmed by regular, external inspections
- Optimum room climate due to moisture-regulating properties
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Formaldehyde-free glued
- Made in Germany
- Rated with an A+ label: the best emission class according to French legalisation on VOC

## AREAS OF APPLICATION

- Sarking board in compliance with ZVDH regulations: UDP-A
- Second water-repellent layer in various constructions
- Over-rafter insulating panel in new constructions and for the renovation of inadequately insulated roofs
- Timber frame wall sheathing with rear-ventilated exterior cladding
- Areas of application in compliance with DIN 4108-10 table 13: DAD-ds / DI-dm / DI-ds / DEO-ds / WAB-ds / WAP / WI-dm / WTR / WH

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® THD T+G offers a high degree of wind and rain proofing over its surface and at the panel joints, thanks to four-edge tongue and groove jointing. Only trimmed edges and penetrations require taping. Suitable adhesive tapes (e. g. Ampack Ampacol XT, pro clima® Tescon Vana und Siga Wigluv®) must always be used along with their respective primer. Please observe the respective manufacturer's instructions. The insulating fibreboard panels can be easily fastened to the support structure with broad back staples (e. g. from haubold®) or wood construction screws. Panels are fastened to counter battens in the rafters or according to the planner's specifications. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM, particularly with regard to 'walk-on' resistance.



# AGEPAN® THD Static



## New options for wooden constructions

AGEPAN® THD Static is a structural insulating fibreboard panel manufactured in a dry process, which complies with DIN EN 13171 and the German technical approval certificate Z-9.1-725. AGEPAN® THD Static is vapour-permeable, thermal insulating and entirely hydrophobic. The asymmetrical bulk density profile makes the panel extremely stable and it can be used as structural sheathing with vapour-permeable wall elements. A high level of prefabrication is possible.

## ADVANTAGES

- Load-bearing, structural insulating fibreboard panel according to Z-9.1-725
- New options for prefabrication of shell-only houses and elements
- Quick, time-saving use
- Exceptional strength due to asymmetrical bulk density profile
- Façade renovation with prefabricated elements
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Minimisation of thermal bridges
- Fastening with standard broad back staples
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- High quality confirmed by regular, external inspections
- Formaldehyde-free glued
- Made in Germany
- Rated with an A+ label: the best emission class according to French legalisation on VOC

## AREAS OF APPLICATION

- Sheathing of frames subject to in-plane shear forces
- Structural use in compliance with Z-9.1-725
- Composite thermal insulation system possible on request
- Areas of application in compliance with DIN 4108-10 table 13: DAD-ds / DI-dm / DEO-ds / WAB-ds / WI-dm / WTR / WH

## UNIQUE: THE ASYMMETRICAL BULK DENSITY PROFILE

The AGEPAN® THD Static's unique production process generates an asymmetrical bulk density profile within the uniform panel. The AGEPAN® THD Static therefore has a particularly solid surface layer on one side with increased fibre content. This gives the panel a light core with excellent insulating properties, as well as exceptional stability and resistance. The panel was awarded the Prize for Innovation by the jury of the distinguished Schweighofer Prize in 2011.

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® THD Static may be used as sheathing for timber frames subject to in-plane shear forces. Dimensions are calculated according to Eurocode 5 (DIN 1052) and DIN EN 1995-1-1 in conjunction with the National Application Document (NAD) as load-bearing and structural sheathing for frames subject to in-plane shear forces. Trimmed edges and penetrations require taping. Suitable adhesive tapes (e. g. Ampack Ampacoll XT, pro clima® Tescon Vana und Siga Wigluv®) must always be used along with their respective primer. Please observe the respective manufacturer's instructions. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.



# AGEPAN® THD Static Putz



## Now available as structural insulating panel in the thermal insulation system

AGEPAN® THD Static Putz is a structural insulating fibreboard panel manufactured in a dry process, which complies with DIN EN 13171 and the German technical approval certificate for thermal insulation system Z-33.47-1401. AGEPAN® THD Static Putz is vapour-permeable, thermal insulating and entirely hydrophobic. The asymmetrical bulk density profile makes the panel extremely stable and it can be used as structural sheathing with vapour-permeable wall elements. A high level of prefabrication is possible.

## ADVANTAGES

- AGEPAN® THD Static Putz according to thermal insulation system Z-33.47-1401
- Load-bearing, structural insulating fibreboard panel according to Z-9.1-725
- New options for prefabrication of shell-only houses and elements
- Quick, time-saving use
- Exceptional strength due to asymmetrical bulk density profile
- Façade renovation with prefabricated elements
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Minimisation of thermal bridges
- Fastening with standard broad back staples
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- High quality confirmed by regular, external inspections
- Formaldehyde-free glued
- Made in Germany
- Rated with an A+ label: the best emission class according to French legalisation on VOC

## AREAS OF APPLICATION

- Sheathing of frames subject to in-plane shear forces
- Structural use in compliance with Z-9.1-725
- Thermal insulation system according to Z-33.47-1401
- Areas of application in compliance with DIN 4108-10 table 13: DAD-ds / DI-dm / DEO-ds / WAB-ds / WI-dm / WTR / WAP-zh / WH

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® THD Static Putz may be used as sheathing for timber frames subject to in-plane shear forces. Dimensions are calculated according to Eurocode 5 (DIN 1052) and DIN EN 1995-1-1 in conjunction with the National Application Document (NAD) as load-bearing and structural sheathing for frames subject to in-plane shear forces. The high density surface layer bearing the stamp must be positioned towards the timber frame. Please observe the guidelines of the German technical approval, the respective plaster manufacturer's and manufacturer's instructions. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.



# AGEPAN® THD Install



## The alternative to the conventional installation layer

AGEPAN® THD Install is a butt-edged insulating fibreboard panel with an asymmetrical bulk density profile, which complies with DIN EN 13171 and the German technical approval certificate Z-23.15-1508. It is manufactured in a dry process. AGEPAN® THD Install is vapour-permeable, thermal insulating and hygroscopic, and can be used as an installation layer or as pressure-resistant internal insulation in roof and wall areas. The solid surface layer enables plasterboards to be fastened directly to AGEPAN® THD Install.

## ADVANTAGES

- Ideal as a quick-to-lay installation layer
- "Solid" layer – no cavity
- Pleasant room climate
- Sound-absorbing and moisture-regulating
- Loads can be easily fixed to panel
- Minimisation of thermal bridges through full surface thermal insulation
- Saves working hours due to easy laying, no battens required
- Quick integration of ducts
- F90-B (REI 90) constructions in AGEPAN® SYSTEM
- Direct attachment to AGEPAN® OSB PUR
- Gypsum boards can be fitted directly using approved screws and staples
- High quality confirmed by regular, external inspections
- Optimum room climate due to moisture-regulating properties
- Formaldehyde-free glued
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Made in Germany
- Rated with an A+ label: the best emission class according to French legalisation on VOC

## AREAS OF APPLICATION

- Universal, pressure-resistant, thermal insulation
- Can be used as internal insulation in wall and roof areas
- Installation layer can be plastered directly with approved product (e. g. Rotkalk, Knauf Gips KG)
- Clayboard systems with CLAYTEC®, Viersen
- Areas of application in compliance with DIN 4108-10 Tabelle 13: DI-dm / DEO -ds / WI-dm / WTR

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® THD Install is applied to the entire surface of AGEPAN® OSB PUR. The denser side of the asymmetrical bulk density profile of AGEPAN® THD Install faces the room. Installation ducts can be integrated using standard tools such as a router, circular saw etc. Gypsum boards or fibreboard panels are attached directly to AGEPAN® THD Install using 5.5 x 38 mm coarse thread screws or with staples (haubold®). Loads can be attached to the installation panel using standard wall plugs. Each wall plug can support up to 25 kg, depending on the type of plasterboard selected. Standard wall plugs may not be used if AGEPAN® THD Install panels are plastered. Heavier loads (e.g. wall units) must either be attached to the frame structure or to internal sheathing with AGEPAN® OSB PUR. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.



# AGEPAN® THD Putz 050



## The insulating fibreboard panel in composite thermal insulation system with Knauf Gips KG

AGEPAN® THD Putz 050 is an insulating fibreboard panel manufactured in a dry process with a tongue and groove profile on all four sides, which complies with DIN EN 13171 and the German technical approval certificate Z-33.47-673. AGEPAN® THD Putz 050 is also entirely hydrophobic, thermal insulating and vapour-permeable. It offers exceptional surface strength and resistance when used in the composite thermal insulation system thanks to its asymmetrical bulk density profile

## ADVANTAGES

- High pressure-resistance and stability
- Simple plaster structure
- Vapour-permeable composite thermal insulation system according to Z-33.47-673
- "Wet on wet" base coat application possible
- Minimisation of thermal bridges
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Easy fixation using approved staples and system wall plugs
- Little risk of damage from impacts due to hardened surface resulting from asymmetrical bulk density profile
- Easy to use due to high dimensional precision
- Letterboxes and outside lights can be easily attached, with up to 5 kg per wall plug (spiral plug, e.g. FID from Fischer)
- F90-B constructions in AGEPAN® SYSTEM
- High quality confirmed by regular, external inspections
- Optimum room climate due to moisture-regulating properties
- Formaldehyde-free glued
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Made in Germany
- Rated with an A+ label: the best emission class according to French legislation on VOC

## AREAS OF APPLICATION

- Composite thermal insulation system with German technical approval certificate Z-33.47-673
- Plastered façades in composite thermal insulation system on timber frame walls or solid wood walls
- Suitable for new builds and renovation
- Areas of application in compliance with DIN 4108-10 table 13: DAD-ds / DI-dm / DEO-ds / WAB-ds / WAP-zh / WH
- Please observe the plaster manufacturer's instructions

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® THD Putz 050 should be laid with a joint offset of > 300 mm. The high density surface layer bearing the stamp is the external face to be plastered. The panel surface should be dry and free from grease and dust. Offsets, open butt joints, cross joints and horizontal joints or unevenness must not exceed the tolerances for building structures stipulated in DIN 18202. The working temperature may not be below + 5°C. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.

## SYSTEM COMPONENTS

- Plinth banding
- Reinforcement mesh
- Mesh corner angles
- Finishing coat
- Reinforced mortar
- Joint sealing tape
- System wall plugs
- Paint



# AGEPAN® THDXL T+G



## The strong panel

AGEPAN® THDXL T+G is an insulating fibreboard panel manufactured in a dry process with a tongue and groove profile on all four sides, which complies with DIN EN 13171 and the German technical approval certificate Z-23.15-1508. AGEPAN® THDXL T+G is also entirely hydrophobic, vapour-permeable and hygroscopic, and can therefore be used as sarking board in compliance with ZVDH regulations. It is used as over-rafter insulation and sarking, as well as as external sheathing when creating roof and wall elements, or as internal insulation.

## ADVANTAGES

- Vapour-permeable, windtight, water-repellent and sound-absorbing
- Minimisation of thermal bridges
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Particularly stable and moisture-resistant, thus no panel sag
- No nail sealing tape required as defined by ZVDH (Central Federation of German Roofing Contractors)
- Emergency roof solution for max. 8 weeks in event of exposure to elements and after storm damage
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- High quality confirmed by regular, external inspections
- Formaldehyde-free glued
- Optimum room climate due to moisture-regulating properties
- Made in Germany

## AREAS OF APPLICATION

- Insulating fibreboard panel for over-rafter insulation, sarking and external sheathing of roof and wall elements
- Sarking board in compliance with ZVDH regulations: UDP-A
- External sheathing in rear-ventilated wall area
- Second water-repellent layer in various constructions
- For renovation and new builds
- Areas of application in compliance with DIN 4108-10 table 13: DAD-ds / DI-zg / DEO-ds / WAB-ds / WH / WI-zg / WTR

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® THDXL T+G offers a high degree of wind and rain proofing over its surface and at the panel joints, thanks to four-edge tongue and groove jointing. Only trimmed edges and penetrations require taping. Suitable adhesive tapes (e. g. Ampack Ampacoll XT, pro clima® Tescon Vana und Siga Wigluv®) must always be used along with their respective primer. Please observe the respective manufacturer's instructions. The insulating fibreboard panels can be easily fastened to the support structure with broad back staples (e. g. from haubold®) or wood construction screws. Panels are fastened to counter battens in the rafters or according to the planner's specifications. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM, particularly with regard to 'walk-on' resistance.



# AGEPAN® TSR



## The universal insulating fibreboard panel

AGEPAN® TSR is an insulating fibreboard panel manufactured in a dry process with butt edges or rabbet edge, which complies with the requirements of DIN EN 13171 and the German technical approval certificate Z-23.15-1508. The vapour-permeable and thermal insulating panel offers structural properties which contribute to an optimum indoor climate.

## ADVANTAGES

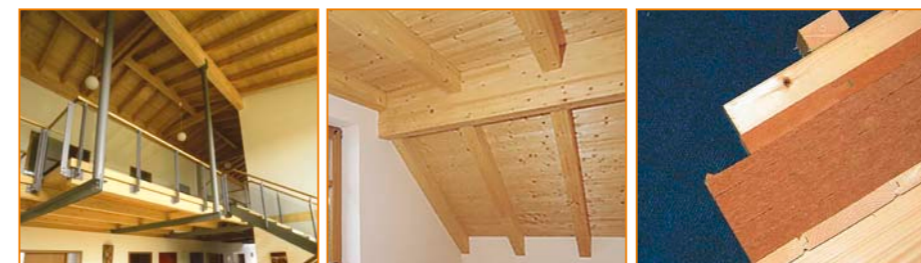
- Minimisation of thermal bridges
- Ideal insulating element for insulating thicknesses > 40 mm
- Vapour-permeable and sound-absorbing
- Regulates the indoor climate
- High quality confirmed by regular, external inspections
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Made in Germany

## AREAS OF APPLICATION

- Over-rafter insulation on formwork
- Insulating fibreboard panel in compliance with DIN EN 13171 and Z-23.15-1508
- Areas of application in compliance with DIN 4108-10 table 13: DAD-dm / DZ / DI-zg / DEO- dm / WAB-dm / WH / WI-zg / WTR

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

Small-sized AGEPAN® TSR panels (1250 x 600 mm) are laid on formwork (e. g. AGEPAN® OSB 3 PUR or AGEPAN® OSB 4 PUR, profiled timber etc.) with a joint offset of at least 300 mm. A second water-repellent layer e.g. AGEPAN® DWD protect T+G, AGEPAN® UDP T+G or AGEPAN® THD T+G is required. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.



# AGEPAN® Flex



## The insulating panel for new builds and renovation

AGEPAN® Flex is an insulating fibreboard panel manufactured in a dry process with butt edges, which complies with the requirements of DIN EN 13171 and the German technical approval certificate Z-23.15-1508. The wood fibres are interlaced in a three-dimensional manner, using special technology, to create a uniform matting-effect. The panel is therefore particularly flexible and adjustable. AGEPAN® Flex is also vapour-permeable and hygroscopic. It fulfils high ecological standards and is used as cavity insulation between the supporting structure in roof and wall areas.

### ADVANTAGES

- Wall and roof cavity insulation
- Dimensionally stable and flexible
- Breathable and vapour-permeable
- High stability under load, preventing it sagging and falling out of the supporting structure
- Clamp width up to 90 cm possible
- Compensates for indoor moisture fluctuations
- Excellent insulating properties keep homes cool in the summer and warm in the winter
- Prefabricated formats for modular dimension 62,5 cm
- High quality confirmed by regular, external inspections
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Made in Germany

### AREAS OF APPLICATION

- Flexible insulating fibreboard panel as cavity insulation in roof, ceiling and wall areas
- Additional insulation for masonry renovation
- Areas of application in compliance with DIN 4108-10 table 13: DZ / DI-zk / WH / WI-zk / WTR

### SHORT OVERVIEW OF INSTRUCTIONS OF USE

The panels must be cut to size with approx. 1 % oversize and laid with seamless joints. The insulating panel must be protected from direct humidification. A vapour barrier is to be applied immediately once the panel is laid. Easily adapted with a cutter or saw. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.

### HIGH CLAMPING EFFECT

Insulation thickness [mm] max	Span width [mm]
40	400
50	500
60	600
80	700
100	800
120	900
140	900
160	900
180	900
200	900



# AGEPAN® TEP



## The dry screed panel

AGEPAN® TEP is an insulating fibreboard panel manufactured in a dry process, with a lengthwise groove and insertable MDF tongue, in compliance with DIN EN 13171 and the German technical approval certificate Z-23.15-1508. Thanks to its resistant surface, AGEPAN® TEP can be used as a dry floor construction element and covered directly with laminate, parquet flooring or floorboards. Floorboards are screwed directly into the MDF tongue. An additional load-bearing layer is not necessary. Its asymmetrical bulk density profile offers good technical values and easy use of the panels. This makes it an ideal substrate with a comfortable walking surface.

### ADVANTAGES

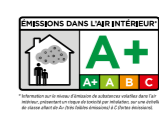
- Ideal system component for dry screed structures
- No drying phase unlike conventional wet screeds, can be walked on immediately
- Floorboards can be screwed directly into the MDF tongues
- Extremely comfortable walking surface: warm underfoot and resilient
- Panels are fixed in place when laid, no shifting possible
- Quick installation due to special tongue and groove joint
- MDF tongue included in delivery
- No acoustic or thermal bridges thanks to MDF tongues within the panels
- Cable ducts etc. can be directly integrated
- No second panel generally required on AGEPAN® TEP to spread the load
- Floating installation of laminate or pre-fabricated parquet flooring and floorboards on AGEPAN® TEP
- High quality confirmed by regular, external inspections
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- Optimum room climate due to moisture-regulating properties
- Formaldehyde-free glued
- Made in Germany
- Rated with an A+ label in France: the best emission class according to French legislation on VOC

### AREAS OF APPLICATION

- Robust, easy to use dry screed element for floor area
- Dry screed on level, load-bearing surface
- Suitable as direct underlay for floating parquet or laminate flooring or floorboards
- Can be tiled as per Permat Floor System from Blanke, Iserlohn
- Areas of application in compliance with DIN 4108-10 table 13: DI-dm / DEO-ds / DES-sg / WH / WI-dm / WTR
- Part of AGEPAN® Floor System

### SHORT OVERVIEW OF INSTRUCTIONS OF USE

AGEPAN® TEP can be laid on every level, dry, load-bearing substrate. A moisture barrier must be applied with cement and screed substrates. Standard woodworking machines can be used for AGEPAN® TEP. Due to its high compressive strength, the dry screed panel can be walked on immediately after it has been laid. Laminate or prefabricated parquet flooring and floorboards can be laid as a floating floor on AGEPAN® TEP. Thanks to the loose MDF tongues which are inserted into the lengthwise panel grooves, floorboards can be screwed directly into place and there is no propagation of sound. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.



# AGEPAN® OSB PUR – EN 300/EN 13986



## The universal load-bearing panel

**AGEPAN® OSB 3 PUR** is a high-performance wood-based panel which complies with EN 300 / DIN EN 13986. It is available in multiple formats with a tongue and groove profile on all 4 sides or with butt edges, with a Contiface surface or in a sanded version. AGEPAN® OSB 3 PUR offers excellent results in the construction sector, and can be used as a multi-purpose panel and for loading-bearing and structural purposes in roof, wall and floor areas. It can be used as an airtight layer or vapour barrier in a vapour permeable construction, so that use of additional foil is unnecessary. AGEPAN® OSB 4 PUR is a wood-based panel for all construction applications requiring excellent load-capacity and dimensional stability. It offers impressive technical values in compliance with EN 300 / DIN EN 13986, which are particularly suited to heavy-duty constructions.

**AGEPAN® OSB 4 PUR** is available in multiple formats with a tongue and groove profile on all 4 sides or butt edges, with the tried and tested Contiface surface. It offers excellent results in the construction sector thanks to enhanced technical characteristics and is used in heavy-duty construction elements and for loading-bearing and structural purposes in roof, wall and floor areas. AGEPAN® OSB 4 PUR can be used as an airtight layer or vapour barrier in a vapour permeable construction, so that use of additional foil is unnecessary. Use of AGEPAN® OSB 3 PUR and AGEPAN® OSB 4 PUR in constructions is governed by the specifications of DIN EN 1995-1-1 (Eurocode 5) and DIN 68800.

## THE CONTIFACE SURFACE

The Contiface surface of AGEPAN® OSB 3 PUR and AGEPAN® OSB 4 PUR is a finish which is applied to the panel surface during the production process. It offers protection from abrasion and contamination, and acts as a short-term water repellent. As the

Contiface surface is the equivalent of a seal, AGEPAN® OSB 3 PUR and AGEPAN® OSB 4 PUR – Contiface are only conditionally suited to surface coating. In this case, we recommend use of the sanded AGEPAN® OSB PUR panel.

## ADVANTAGES

- Exceptional strength and stability
- Use as an airtight layer or vapour barrier
- Formaldehyde-free and moisture-resistant glueing
- Reduced swelling and shrinkage
- Available in multiple sizes
- Neat and attractive appearance
- Raw material exclusively from responsible forest and timber industry
- Bulk density suitable for timber frame constructions in accordance with EC 5 and fire protection in accordance with DIN 4102-4
- Non-detrimental to health – independent confirmation that it is safe to use with foodstuffs
- High quality confirmed by regular, external inspections
- Made in Germany

## AREAS OF APPLICATION

- Floor construction
- Wall cladding
- Structural wall elements and roof panelling
- Load-bearing ceiling sheathing
- Site fences
- Shopfitting and exhibition stand construction
- Transport packaging
- Furniture production
- As sanded panel for decorative areas

Detailed information on product use can be found at:

[www.sonaearauco.com](http://www.sonaearauco.com)



# P3 Particleboard Flooring Panel – EN 312/EN 13986



## The universal flooring panel

P3 Particleboard Flooring Panels with tongue and groove profile on all four sides comply with EN 312 / DIN EN 13986 and bear CE marking. They therefore satisfy the highest demands for strength and quality and are particularly suited to non-load-bearing indoor applications in wet areas, i.e. with short-term increase in moisture. The P3 Particleboard Flooring Panel can be used anywhere requiring a smooth, sealed surface. It can also be treated with all standard, non-water-based coating agents.

## ADVANTAGES

- Sanded surface – suitable for application of thin covers or coatings
- Tightly-sealed tongue and groove joint due to special profile
- Moisture-resistant glueing
- Low formaldehyde emissions
- Exceptional strength
- Universal use
- Environmentally-friendly and non-detrimental to health as made from sustainable timber
- High quality confirmed by regular, external inspections
- Made in Germany

## AREAS OF APPLICATION

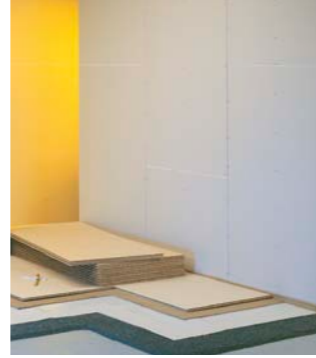
- Particleboard for non-load-bearing purposes in wet areas
- Particleboard type P3 in compliance with EN 312 / DIN EN 13986
- Tried and tested product for indoor construction
- Floor constructions for floating installation
- Wall cladding
- Decorative applications
- Packaging
- Part of AGEPAN® Floor System

## SHORT OVERVIEW OF INSTRUCTIONS OF USE

Particleboards of technical class P3 can be used for non-load-bearing purposes in wet areas. The sanded surface is particularly suitable for painting, lacquering or coating after appropriate preliminary treatment. P3 Particleboard Flooring Panels with tongue and groove are part of the AGEPAN® SYSTEM. Please observe the current, detailed instructions of use of the AGEPAN® SYSTEM.



# AGEPAN® Floor System



## The complete flooring solution

The AGEPAN® Floor System is dry, quick to install, can be walked on immediately, and is elastic and shock-absorbing to protect joints. The AGEPAN® SYSTEM offers a variety of flooring constructions suitable for new builds and renovations.

## ADVANTAGES

- All components from a single source
- Different flooring constructions tested for footfall sound improvement
- Sound-absorbing and thermal-insulating when combined with suitable insulating materials
- No drying phase unlike conventional wet screeds
- Comfortable walking surface

## AREAS OF APPLICATION

- Levelling of old floorboards
- Floating installation
- For renovation, refurbishment and new construction of private and commercial floors
- Removable floors
- Double floors
- Work platforms and many other special floors

## ADDITIONAL FLOOR SYSTEM COMPONENTS



### AGEPAN® Loose Fill

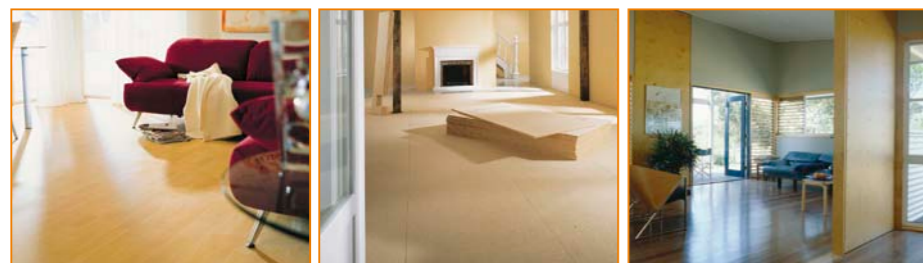
AGEPAN® Loose Fill is manufactured from the natural raw material shale, in a special thermal process. AGEPAN® Loose Fill does not contain any chemical additives and is therefore a high quality, environmentally-friendly material with outstanding grain strength.

Loose fill is used as footfall soundproofing and thermal insulation to level out uneven floors and is a tested element of the AGEPAN® Floor System. This non-flammable expanded shale should be compacted when laid with a fill depth greater than 5 cm.



### AGEPAN® Natural Insulation Panel

The AGEPAN® Natural Insulation Panel with butt edges, which complies with DIN EN 13986 / DIN EN 622-4, is used as a footfall sound insulation in the AGEPAN® Floor System. This insulating fibreboard panel is available in 10 and 19 mm thicknesses. It also provides additional acoustic insulation as part of the AGEPAN® Floor System. If laid on screed or concrete, a moisture barrier must be used.



# Recommended reference projects



Living space: 150 m<sup>2</sup>  
Construction time: 12 weeks



Living space: 167 m<sup>2</sup>  
Construction time: 10 weeks



Living space: 265 m<sup>2</sup>  
Construction time: 6 months



Warehouse/office space: 300/200 m<sup>2</sup>  
Construction time: 18 days

## “Hezel & Römer” detached house

### Products used:

Wall: AGEPAN® THD Static in 40 mm



## Extension and addition storey: “Wild” detached house

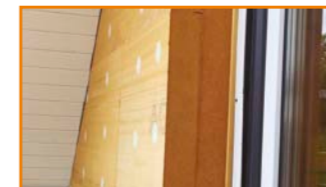
### Products used:

Facade: AGEPAN® THD Putz T+G in 80 mm doubled to 160 mm

Roof: AGEPAN® THD T+G in 60 mm

Wall: AGEPAN® THD Install in 60 mm

Roof and wall: AGEPAN® OSB 3 PUR in 15 mm



## “Kratzenberg” low energy house

### Products used:

Facade: AGEPAN® DWD protect in 16 mm

Wall: AGEPAN® OSB 3 PUR in 15 mm and AGEPAN® THD Install in 60 mm

Roof: AGEPAN® THD T+G in 80 mm













Floor: AGEPAN® OSB 3 PUR in 25 mm



Further references can be found at [www.sonaearauco.com](http://www.sonaearauco.com)












# Technical data and product range

AGEPAN® System products	Nominal thickness (mm)	Coverage, length x width (mm)	Calculated dimension (mm)	(Pcs./package)	Packaging unit (pcs./pallet)	Certification	Fire classification	Formaldehyde emission class	Bulk density (kg/m³)	Specific thermal capacity (J/kg K)	Rated thermal conductivity (W/mK) - λ <sub>R</sub>	Nominal thermal conductivity (W/mK) - λ <sub>D</sub>	Tear strength, tensile strength, panel plane (kPa)	Hydrophobic group	Water vapour diffusion equivalent air layer thickness (m)	Compressive strength (kPa)	
	AGEPAN® DWD protect STD	16	3000 x 1247	3000 x 1247	48	48	Z-9.1-382	D-s1, d0	E1 – formaldehyde-free glued	565	2100	0,090	–	–	0,18	–	
	AGEPAN® DWD protect T+G	16	2500 x 625	2510 x 635	40	40											
		16	2500 x 1000	2510 x 1010	40	40											
	AGEPAN® DWD protect lgs T+G (lengthwise)	16	3000 x 1250	3000 x 1265	40	40											
AGEPAN® DWDmax	16	6000 x 2500	6000 x 2500	28	28												
	AGEPAN® UDP T+G	22	2500 x 590	2520 x 610	48	48	EN 13171	E	E1 – formaldehyde-free glued	270	2100	0,063	0,051	15	WS 1,0	0,11	≥ 300
		25			42	42										0,13	
		32			33	33										0,16	
	AGEPAN® THD T+G	40	1875 x 585	1890 x 600	26	52	EN 13171 Z-23.15-1508	E	E1 – formaldehyde-free glued	230	2100	0,050	0,047	≥ 8	WS 1,0	0,12	≥ 200
		50			21	42										0,16	
		60			17	34										0,18	
		80			13	26										0,24	
	AGEPAN® THDmax	40	6000 x 2500	6000 x 2500	18	18									0,12	≥ 200	
		60			12	12									0,18		
		80**			–	–									0,24		
	AGEPAN® THDxl T+G	100	1875 x 585	1900 x 610	22	22	EN 13171 Z-23.15-1508	E	E1 – formaldehyde-free glued	190	2100	0,046	0,043	≥ 7,5	WS 1,0	0,30	≥ 200
		120			18	18										0,36	
	AGEPAN® THD Static	40	3000 x 1250	3000 x 1250	26	26	EN 13171 Z-9.1-725	E	E1 – formaldehyde-free glued	230	2100	0,055	0,052	≥ 8	WS 1,0	0,12	≥ 200
		60			17	17										0,18	
		80			13	13										0,24	
	AGEPAN® THD Static Putz	60			26	26									0,12	≥ 200	
		80*			17	17									0,18		
	AGEPAN® THD Install	40	2650 x 600	2650 x 600	26	26	EN 13171 Z-23.15-1508	E	E1 – formaldehyde-free glued	230	2100	0,050	0,047	≥ 8	WS 1,0	0,12	≥ 200
		60			17	17										0,18	
		80*			13	13										0,24	
	AGEPAN® THD Putz 050	40	1875 x 585	1890 x 600	26	52	EN 13171 Z-33.47-673	E	E1 - formaldehyde-free glued	230	2100	0,050	0,047	≥ 8	WS 1,0	0,12	≥ 200
		50			21	42										0,16	
		60	1875 x 585	1890 x 600	17	34										0,18	
			2500 x 1000	2515 x 1015	17	17										0,18	
		80	1875 x 585	1890 x 600	13	26										0,24	
	2500 x 1000	2515 x 1015	13	13	0,24												
	AGEPAN® TSR (butt)	40   60   80   100   120	1250 x 600	1250 x 600	54   36   28   22   18	54   36   28   22   18	EN 13171 Z-23.15-1508	E	E1 – formaldehyde-free glued	110	2100	0,040	0,038	–	WS 2,0	μ value = 3 s <sub>d</sub> value = μ x TSR Thickness (m)	≥ 50
	AGEPAN® TSR (rabbet edge)	140   160   180   200   220   240	1250 x 600	1265 x 615	14   12   12   10   10   8	14   12   12   10   10   8											
	AGEPAN® Flex	40   50   60   80	1220 x 580	1220 x 580	8   6   5   4   3	112   84   70   56   42	EN 13171 Z-23.15-1508	E	E1	50	2100	0,040	0,038	≥ 1	–	μ value = 3 s <sub>d</sub> value = μ x Flex Thickness (m)	–
		100   120   140   160   180   200			3   2   2   2   2	36   32   28   24   20											
	AGEPAN® TEP	40	1880 x 500	1890 x 500	26	52	EN 13171 Z-23.15-1508	E	E1 – formaldehyde-free glued	230	2100	0,050	0,047	≥ 8	WS 1,0	0,12	≥ 200
		60			17	34										0,18	
		80*			13	26										0,24	

\* not kept in stock  
\*\* on request

# Technical data and product range

AGEPAN® SYSTEM products	Nominal thickness (mm)	Coverage, length x width (mm)	Calculated dimension (mm)	(Pcs./package)	Packaging unit (pcs./pallet)	Certification	Fire classification	Formaldehyde emission class	Bulk density (kg/m³)	Specific thermal capacity (J/kg K)	Rated thermal conductivity (W/mK) - $\lambda_p$	Nominal thermal conductivity (W/mK) - $\lambda_D$	Tear strength, tensile strength, panel plane (kPa)	Hydrophobic group	Water vapour diffusion equivalent air layer thickness (m)	Compressive strength (kPa)
	6   8   9   10   12 15   18   20   22   25	2500 x 1250	-	156   120   106   96   80 64   54   49   44   39	156   120   106   96   80 64   54   49   44   39	EN 300 EN 13986	D-s2, d0	E1 – formaldehyde-free glued	6, 8, 9, 10: 640 12: 620 15: 610 18,22,25,30: 600	2100	0,130	-	6 bis 10 mm: 340 > 10 und < 18 mm: 320 18 bis 25 mm: 300	-	$\mu$ value = 150 - 200 $s_d$ value = $\mu \times$ OSB 3 PUR Thickness (m)	-
	12   15   18	2800 x 1250	-	68   54   44	68   54   44											
	12   15   18	3000 x 1250	-	68   54   44	68   54   44											
	15   18   22	5000 x 1250	-	30   26   22	30   26   22											
	15   18   22   25	5000 x 2500	-	16   13   11   10	16   13   11   10											
	12   15   18 22   25   30	2500 x 675	-	80   64   54   44   39   32	80   64   54   44   39   32	EN 300 EN 13986	D-s2, d0	E1 – formaldehyde-free glued	6, 8, 9, 10: 640 12: 620 15: 610 18,22,25,30: 600	2100	0,130	-	6 bis 10 mm: 340 > 10 und < 18 mm: 320 18 bis 25 mm: 300	-	$\mu$ value = 150 - 200 $s_d$ value = $\mu \times$ OSB 3 PUR Thickness (m)	-
	12   15   18   22   25	2500 x 1250	-	80   64   54   44   39	80   64   54   44   39											
	12   15   18   22   25	2500 x 675	-	80   64   54   44   39	80   64   54   44   39	EN 300 EN 13986	D-s2, d0	E1 – formaldehyde-free glued	6, 8, 9, 10: 640 12: 620 15: 610 18,22,25,30: 600	2100	0,130	-	6 bis 10 mm: 340 > 10 und < 18 mm: 320 18 bis 25 mm: 300	-	$\mu$ value = 150 - 200 $s_d$ value = $\mu \times$ OSB 3 PUR Thickness (m)	-
	22	6250 x 675 5000 x 1250	-	22 22	22 22											
	12   15   18   22	2500 x 1250	-	80   64   54   44	80   64   54   44	EN 300 EN 13986	D-s2, d0	E1 – formaldehyde-free glued	12, 15: 630 18, 22, 25: 620 30: 610	2100	0,130	-	6 bis 10 mm: 500 > 10 und < 18 mm: 450 18 bis 25 mm: 400	-	$\mu$ value = 200 - 250 $s_d$ value = $\mu \times$ OSB 4 PUR Thickness (m)	-
	12   15   18	2800 x 1250	-	68   54   44	68   54   44											
	12   15	2650 x 1250 3000 x 1250	-	68   54	68   54											
	15   18   22   25	2500 x 675	-	64   54   44   39   32	64   54   44   39   32	EN 300 EN 13986	D-s2, d0	E1 – formaldehyde-free glued	12, 15: 630 18, 22, 25: 620 30: 610	2100	0,130	-	6 bis 10 mm: 500 > 10 und < 18 mm: 450 18 bis 25 mm: 400	-	$\mu$ value = 200 - 250 $s_d$ value = $\mu \times$ OSB 4 PUR Thickness (m)	-
	15   18   22   25	2500 x 1250	-	64   54   44   39	64   54   44   39											
	10   13   16 19   22   25   28	2040 x 915	2050 x 925	80   61   50   42   36 32   28	80   61   50   42   36 32   28	EN 312 EN 13986	D-s2, d0	E1	> 600	2100	0,120	-	450	-	$\mu$ value = 50 - 100 $s_d$ value = $\mu \times$ Span Thickness (m)	-
	10   19	1250 x 1200	-	228   120	228   120	EN 622-4 EN 13986	E	E1	230	2100	0,070	0,050	≥10	-	0,05   0,10	≥100
	Sackware 50 l	-	-	-	24	EN 13055	-	-	ca. 570	2100	-	-	-	-	-	-

\*= not kept in stock  
 Only complete pallets are delivered  
 AGEPAN® SYSTEM products are available with PEFC™ / FSC® certification according to availability

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Your AGEPAN<sup>®</sup> SYSTEM Partner

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