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# THE CLIMATE YOU WOULD LIKE TO LIVE IN. AGEPAN® SYSTEM WITH FUNCTIONAL WOOD®.

There is a whole world behind the terms AGEPAN® SYSTEM and Functional Wood®: the world of healthy living. Our AGEPAN® Functional Wood® is a naturally based high-tech product. By means of a special treatment process, the surface area is so greatly enlarged that its optimum function is ensured: that is the regulation of the room climate.

This is how AGEPAN® Functional Wood® works as a natural regulating element for the room climate. If the air inside the room contains too much moisture, AGEPAN® Functional Wood® absorbs it. If the air in the room is too dry, the Functional Wood® releases moisture again through its wood fibres. In this way, AGEPAN® Functional Wood® ensures that you can always feel comfortable in a healthy environment with an excellent room climate.





AGEPAN® THD T+G 230



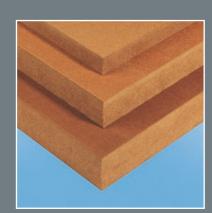
AGEPAN® UDP



AGEPAN® DWD protect



AGEPAN® Floor System



AGEPAN® TEP

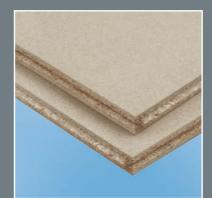


AGEPAN® OSB





AGEPAN® THD 230



NOVOPAN® Chipboard



AGEPAN® THD T+G 230 rendered

### THE LOGIC OF THE SYSTEM.

tions, as well as for the insulation of existing rooms range of innovative wood materials. and the renovation of old buildings.

Probably the best way to build your house whether, in- A major advantage of the AGEPAN® SYSTEM: Everysulated or renovated is to use the AGEPAN® SYSTEM. thing comes from a single source. That simplifies the For all the construction components in the system are work on the house and ensures that everything funcperfectly matched. That goes for the construction of tions as it should. It also means reliable quality, reliexterior walls, interior rooms, floors and roof altera- able delivery and the guaranteed availability of a wide

The AGEPAN® SYSTEM is logically structured. Each Functional Wood® has a justified place in the system. One component fits the next. One function complements the others.

#### ROOF

1. Gable roof with hard roof cladding AGEPAN® OSB AGEPAN® THD T+G 230 Alternatively AGEPAN® DWD protect AGEPAN® UDP

2. Flat roof with greening on diagonally fitted rafters AGEPAN® OSB AGEPAN® THD 230

#### WALL

as well as ventilated cavity AGEPAN® OSB AGEPAN® THD T+G 230 Alternatively AGEPAN® DWD protect AGEPAN® UDP

4. Exterior wall with board and batten cladding as well as ventilated cavity AGEPAN® OSB

AGEPAN® THD T+G 230 Alternatively AGEPAN® DWD protect AGEPAN® UDP

5. Exterior wall with plank cladding as well as ventilated cavity AGEPAN® OSB AGEPAN® THD T+G 230 AGEPAN® DWD protect AGEPAN® UDP

6. Exterior wall rendered with installation level AGEPAN® THD 230 AGEPAN® OSB AGEPAN® THD T+G 230\*

#### FLOOR

3. Exterior wall with brick facing 7. Flooring with floating parquet AGEPAN® TEP

> 8. Ceilings with cellulose NOVOPAN® chipboard AGEPAN® floor system

9. Floor covering for waxing, oiling, varnishing AGEPAN® OSB

\* In Germany, a general construction permit is required for thermal insulation composite systems (TICS).

The proven stability and robustness of the panel make it very suitable for prefabrication.

But this wood fibre insulating panel is also ideal on-site as part of the WARM-WALL

SYSTEM thanks to the quick and easy processing. The combination of wood and plasterbased materials has been exhaustively optimised and ensures a high ecological

# FUNCTION AND PERFECTION. AGEPAN® SYSTEM FOR BUILDING, INSULATING AND RENOVATION.

#### ROOF CONSTRUCTION:

from the inside to the outside and prevents damage SYSTEM products. due to condensation.

#### WALL CONSTRUCTION:

integrated in the walls saves space and creates more load. living space.

#### FLOOR CONSTRUCTION:

in the house, speeds up the flooring construction and be temporarily protected by plastic sheeting. allows it to be walked on immediately.

The AGEPAN® SYSTEM and Functional Wood® gener-The AGEPAN® SYSTEM with its logically matched ally shorten the construction time, thanks, for exam-Functional Wood® quarantees heat protection in the ple, to a high degree of prefabrication possibilities for summer and excellent thermal insulation for new roof the components, quick processing on-site, the reducconstruction and roof renovation. As the construction tion of working procedures, the optimisation of mais vapour-permeable, it permits moisture equalisation — terials and, above all, the easy handling of AGEPAN®

#### NATURAL WEATHERING:

AGEPAN® THD T+G 230, AGEPAN® UDP and AGEPAN® The AGEPAN® SYSTEM products are energy efficient. DWD protect can be exposed normal weather for up to The thermally insulating, airtight house shell of Func- eight weeks. In the roof, care must be taken to ensure tional Wood® saves heating costs. Another advantage — that the counterbattening is fitted and all joints and of the AGEPAN® SYSTEM for walls is its high protec-seals are rainproof. If snowfall is likely, the horizontion against noise, moisture and fire. The insulation — tal battens should also be fitted to support the snow

When AGEPAN® DWD protect is used for load-bearing and reinforcement purposes, the relevant specifications with regard to material moisture in DIN 1052, DIN With the AGEPAN® SYSTEM, flooring work can be 68800 and the construction permit must be observed carried out quickly. The absence of the necessity for — in this case, prolonged exposure to the weather drying times, which itself creates additional moisture should be avoided and, if necessary, the panels should



The wood fibre insulating panel, manufactured in a dry process, with its innovative, asymmetrical bulk density profile, represents the highest ecological standards for use in roofs and walls.

# AGEPAN® THD T+G 230: PROFESSIONAL INSULATION FOR NEW BUILDING AND RENOVATION.

#### ADVANTAGES:

- Minimisation of thermal bridges
- Excellent insulation
- Second waterproof layer
- Very good summer heat protection due to high heat for the renovation of inadequately insulated roofs storage capacity
- Windproof and water-repellent
- Particularly stable and moisture-resistant, so no
- Especially suitable for the prefabrication of ele- Thanks to its tongue and groove joints on four edges, ments and for on-site assembly
- up to 1 m rafter spacing and 100 kg in the case of joints. joints without overhang - fulfils the requirements Only trimmed edges and penetrations require gluing.
- end wall
- Negligible fibre abrasion
- of at least 50 %
- Fastenings in the roof take place only with approved (e.g. from ABC Spax). 8 mm single-thread screws or staples (up to 40 mm On the roof, fastening takes place through the coun-
- Easy assembly thanks to chamfered tongue and groove profile

#### AREAS OF APPLICATION:

- Windproof, thermally insulating, vapour permeable and noise insulating planking in roof and wall area
- Over-rafter insulating panel for new construction and
- Wall planking of vertical timber support structures with exterior cladding and ventilated cavity

#### WORKING INSTRUCTIONS:

AGEPAN® THD T+G 230 provides a high degree of pro-• Easy to work with: from 60 mm dry, safely walkable tection against wind and rain in surface and panel

of ONR 222 19-2 regarding the walkability of roof Suitable products are Budax Top (Moll GmbH), Ampacoll BK 535 (Ampack GmbH), Airstop Bitumen Tape • With tested system accessories for an F 90-B house (Isocell GmbH) or SIGA-Wigluv, each with its respective primer.

The wood fibre insulating panels can be easily fas-• Good adhesion of adhesive tapes, so primer saving tened to the support structure with broad back staples (e.g. from Haubold) or wood construction screws

terbattens (40 x 60 mm) on to the rafters.

#### ADVANTAGES:

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• Approved system component in the MARMORIT For plaster facades in the MARMORIT WARM-WALL WARM-WALL SYSTEM

standard.

AGEPAN THD T+G 230:

RENDER REQUIREMENTS.

- Simple plaster application
- High compressive strength and stability
- Vapour permeable TIC (thermal insulation compos- for new construction and renovation.
- Allows homogeneous insulation through a minimisa- WORKING INSTRUCTIONS: tion of thermal bridges
- Excellent summer heat protection
- Easy attachment by means of staples and approved dry and free from grease and dust.
- Low risk of damage by impact because of the harder SYSTEM COMPONENTS: - the attachment of letter boxes and exterior lights—use with the AGEPAN® THD T+G 230: presents no problems
- With tested system accessories for an F 90-B house end wall

#### AREAS OF APPLICATION:

thermal insulation composite system on timber framed walls or solid timber constructions in accordance with German construction approval Z-33.47-673. Suitable

When AGEPAN® THD T+G 230 is used as a rendered panel\*, the panel surface should be correspondingly

surface due to the asymmetrical bulk density profile KNAUF MARMORIT sells the following products for

Plinth banding | SM 700 reinforced mortar | Reinforcing • Easy processing thanks to high dimensional fabric | Joint sealing tape | Fabric corner angles | System plugs | Setting coats: NOBLO, KATI, conni | Paint



\* In Germany, a general construction permit is required for thermal insulation composite systems (TICS).

































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AGEPAN® THD 230 is a square-edged wood fibre insulating panel with an asymmetric density profile, manufactured in a dry process. It represents a high ecological standard and possesses official certifications.



AGEPAN® TSR is a thermally insulating and sound absorbing wood fibre insulating panel with squared edges. It is an environmental friendly, natural construction material, largely consisting of natural wood fibres.

# AGEPAN® THD 230: THE TIME-SAVING PRESSURE-RESISTANT MULTI-PURPOSE PRODUCT.

#### ADVANTAGES:

- Excellent service layer
- Up to 50% work time saving through simple laying Quickly laid, directly plasterable service layer (no battening required) and quick integration of ducts
- "Solid" layer (no cavity!)
- Attachment of bracket loads without problems
- Full surface heat insulation, so no further thermal
- Heat protection in summertime
- Pleasant living space climate
- Noise insulating
- Moisture regulating

#### AREAS OF APPLICATION:

- Universal pressure-resistant thermal insulation
- Also as supplementary insulation underneath AGEPAN® THD T+G 230 and AGEPAN® UDP in the

#### WORKING INSTRUCTIONS – SERVICE LAYER:

AGEPAN® THD 230 is attached directly to the support structure (with vapour barrier) or flat on AGEPAN® OSB. Conduits can be cut, for example, with a circular saw, router or utility knife. The attachment of KNAUF plasterboard sheets or Fermacell fibre reinforced plasterboards then takes place directly on the AGEPAN® THD 230. Attachment of bracket loads to the service layer with plastic (knotting) plugs is possible. The anchor load, according to the plaster sheet chosen, is up to 30 kg per plug. Adherence to the working instructions here is essential. In the case of plastered AGEPAN® THD 230, the bracket loads cannot be applied to the plastic plugs. Wall cabinets, for example, must then be attached to the AGEPAN® OSB below or to the support structure.

#### ADVANTAGES:

• Natural wood fibre insulating panel with squared

AGEPAN® TSR:

- Vapour permeable
- Effective thermal insulation
- Highly recommended for biological compatibility
- Provides heat protection in the summer
- No doubling up and no additional pieces of solid structural timber required
- Handy one-man panel

#### AREAS OF APPLICATION:

FOR UNIVERSAL APPLICATION.

- Thermally insulating, vapour permeable and noise absorbing over-rafter insulation
- For new construction and for renovation of inadequately insulated roofs
- Can be freely combined with AGEPAN® THD T+G 230 and AGEPAN® UDP as a second waterproof layer
- Universally applicable interior insulation

#### **WORKING INSTRUCTIONS:**

AGEPAN® TSR is suitable in the roof only as additional over-rafter insulation under a second waterproof layer, e.g. AGEPAN® THD T+G 230 or AGEPAN® UDP. These panels should therefore also be kept dry and protected from the effects of the weather. If necessary, AGEPAN® TSR should be temporarily protected with plastic sheeting.

The panels can be fixed in position using any generally available means of fastening. They are attached through the counterbattens which rest on the second waterproof layer.































AGEPAN® UDP is another high-quality branded product from our system construction programme, manufactured in a dry process for quick and easy working, with an asymmetric density profile.



AGEPAN® DWD has been sold with success for more than 12 years. The original has been further developed and a new milestone has been set for future-oriented, safe construction: AGEPAN® DWD protect.

The optimised surface protection provides the worker with more safety on the construction site.

AGEPAN® DWD PROTECT: WITH

OPTIMISED SURFACE PROTECTION.

### AGEPAN® UDP: THE STABLE INSULATION SPECIALIST.

#### ADVANTAGES:

- Windproof and water-repellent
- Vapour permeable:  $sd \le 0.2 m$ , so no chemical wood Second waterproof layer in various constructions preservation is necessary
- Particularly stable and moisture-resistant, so no sagging of the panels
- Thermally insulating and noise-absorbent
- of ONR 22219-2 regarding the walkability of under- thanks to the four-edge tongue and groove jointing. roofs are complied with
- The 22 mm panel is walkable in the supported area
- AGEPAN® UDP, 25 mm, can be plastered in window and door jambs
- Very favourable biological compatibility
- Negligible fibre abrasion
- primer savings
- Fastenings in the roof are carried out only with approved 8 mm single-thread screws or with staples

#### AREAS OF APPLICATION:

- Exterior planking in roof and wall areas
- Renderable jamb panel in 25 mm

#### **WORKING INSTRUCTIONS:**

AGEPAN® UDP provides a high degree of wind- and • With thicknesses of 25 and 32 mm, the requirements rainproofing over its surface and at the panel joints Only trimmed edges and penetrations require taping. Suitable products are Budax Top (Moll GmbH), Ampacoll BK 535 (Ampack GmbH), Airstop Bitumen Tape (Isocell GmbH) or SIGA-Wigluv, each with its respective primer.

The wood fibre insulating panels can be easily fas-• Good adhesion of adhesive tapes, so at least 50 % tened to the support structure with broad back staples (e.g. from Haubold) or wood construction screws (e.g. from ABC Spax). On the roof, fastening takes place through the counterbattens (30 x 50 mm) on to the rafters.

#### ADVANTAGES:

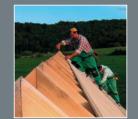
- Officially approved for wind, break and bend
  Wind, break and bend reinforcement of timber frame reinforcement
- Easy to process: at 16 mm dry, puncture-resistant up to 1 m rafter intervals and 100 kg in the case of • As stable, walkable under-roof panel and second non-floating joints – fulfils the requirements of ONR 222 19-2 regarding the walkability of under-roofs
- Vapour permeable, windproof and rainproof: solid planking and second waterproof layer
- Quick and efficient laying and cost saving prefabrication possible
- F30-B construction in the AGEPAN® SYSTEM
- Recommended for biological compatibility
- needed

#### AREAS OF APPLICATION:

- constructions with official construction approval Z-9.1-382
- waterproof layer in roof and wall
- High-performance replacement for expensive claddings with additional sheeting

#### **WORKING INSTRUCTIONS:**

AGEPAN® DWD protect can be used for wall and roof panels according to DIN 1052:2004-08 for break and bend reinforcement and to absorb wind loads. From a • Good adhesion of adhesive tapes - no primer is roof slope of 15° and a maximum deviation of 6° below the regular minimum roof pitch, AGEPAN® DWD protect provides a high degree of wind- and rainproofing over its surface and at the panel joints thanks to the fouredge tongue and groove jointing. Only trimmed edges and penetrations require taping (Ampacoll BK 535). On the roof, fastening takes place through the counterbattens (30 x 50 mm) on to the rafters.



























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AGEPAN® OSB - EN 300/EN 13986 is a high-performance wood material panel which, thanks to its longitudinally oriented chip fibre geometry, possesses high strength. It is excellent to work with and represents an alternative to the usual market standards for structural applications.

### AGEPAN® OSB – EN 300/EN 13986: THE UNIVERSAL OSB PANEL.

#### ADVANTAGES:

- High mechanical strength with low bulk density
- Bonded for moisture resistance (Utilisation Class 2) Wall claddings
- Reduces swelling and shrinkage in the case of any Reinforcing wall planking
- Versatile in application thanks to the multi-format Reinforcing roof plate (Utilisation Class 2) product programme

#### AREAS OF APPLICATION:

- Floor construction

- Roof claddings (raw boarding replacement)
- Load-bearing deck planking
- Site fences
- Shopfitting and trade fair construction
- Packaging: crates, pallets
- Furniture manufacture
- Decorative areas

#### **WORKING INSTRUCTIONS:**

The OSB panel is sealed on the surface by the production process. This Contiface surface acts as a short-term water repellent, so it provides additional moisture protection because of the resin. In the case of a further coating of the surface with oils, waxes or lacquers, however, it is better to select a sanded OSB for better adhesion. In addition to the different formats and thicknesses, we therefore also supply sanded OSBs.

#### ADVANTAGES:

• AGEPAN® OSB/3: load-bearing panel for damp con- • Floor construction ditions (Utilisation Class 2)

CONSTRUCTION.

tion security.

OFFICIALLY APPROVED FOR

AGEPAN® OSB:

- AGEPAN® OSB/4 PUR: heavy load-bearing panel for damp conditions (Utilisation Class 2)
- Minimal formaldehyde emissions
- Moisture-resistant gluing
- Additional documented tests permit more extensive and more professional application than standardised products

#### AREAS OF APPLICATION:

AGEPAN® OSB is a shape-stable and long-lasting wood material with its own individual,

construction-approved characteristic profile which extends its areas of application be-

yond those of standard products. It offers added value together with maximum applica-

- Wall claddings
- Reinforcing wall planking
- Roof claddings (replacement for raw boarding)
- Reinforcing roof plate
- Load-bearing deck planking
- Site fences
- Shopfitting and trade fair construction

#### **WORKING INSTRUCTIONS:**

The added value of construction-approved OSB lies in the improved mechanical load capacity and the healthier living characteristics of its profile in relation to European Standard EN 13986. Particularly for laying over tiers of beams and for the reinforcement of timber frame constructions, the higher load-bearing capacity of these panels pays for itself. Smaller dimensioning is often possible. As inside planking, OSB has another advantage. With taped joints, OSB may be used as an airtight layer and plastic sheeting can be dispensed with. The following products are suitable for adhesive bonding: Ampacoll XT, SIGA Rissan, SIGA Sicrall, Siga Cover AG, Airstop Adhesive Tape, Airstop Flex Adhesive Tape.



























AGEPAN® TEP with its highly compacted surface is the optimum dry screed panel, manufactured in a dry process. Its characteristics provide an asymmetric density profile. This makes it an ideal substrate and ensures a comfortable walking surface.

### AGEPAN® TEP: THE DRY SCREED PANEL.

#### ADVANTAGES:

- No drying phase, unlike conventional wet screeds
- Thermally insulating and noise-absorbent
- No second panel required to spread the load
- Laminate, ready-to-lay parquet and boards can be laid floating on AGEPAN® TEP
- Immediately walkable
- Suitable for DIY builders, thanks to simple laying
- Saves material and time

#### AREAS OF APPLICATION:

- Ideal system component for dry screed constructions
- Suitable as a direct underlay for floating parquet, laminate or board floors

#### **WORKING INSTRUCTIONS:**

Simply lay AGEPAN® TEP on a level, dry and loadbearing substrate. In the case of concrete and screed substrates, a moisture barrier (PE sheeting) must first be laid. Generally available woodworking machines can be used for AGEPAN® TEP. A vacuum device prevents blockage of the machine. Because of its high compressive strength, the wood fibre insulating panels can be walked on immediately after they are laid. Laminate, ready-to-lay parquet and boards can be laid floating on the healthy dry screed panel, square timbers between the panels only being required in the case of screwed solid timber floorboards.















The AGEPAN® Floor System offers these advantages: dry, quick, immediately walkable, elastic and gentle to the leg joints. A variety of flooring constructions can be employed, suitable for renovation or refurbishment and for new construction.

# AGEPAN® FLOOR SYSTEM: THE COMPLETE SOLUTION FOR FLOORING.

#### ADVANTAGES:

- 22 different flooring constructions, some tested for and heat storage. footfall noise improvement
- Noise-absorbent and thermally insulating in combination with suitable insulating materials
- No drying phase, unlike conventional wet screeds
- High walking comfort
- Particularly recommended for biologically compatible construction

#### AREAS OF APPLICATION:

- Levelling of old floorboards
- Laying on joists
- Floating laying
- of private and commercial floors
- Construction of the special floors in gymnasiums PVAc adhesive for the gluing of AGEPAN® OSB and and sports buildings
- Removable floors
- Double floors
- Work platforms and many other special floors

#### SUPPLEMENTARY FLOOR SYSTEM COMPONENTS: AGEPAN® LOOSE FILL:

From a packing depth of 5 cm, this non-flammable expanded shale should be compacted when laid. Thanks to its density of 570  $\pm$  25 kg/m³, this loose fill makes

a significant contribution to footfall noise reduction

#### AGEPAN® CORRUGATED CARDBOARD:

Effective trickle protection when working with loose fill. The corrugated cardboard can also be used on the loose fill for the further processing of AGEPAN® Natural Insulation Panel.

#### AGEPAN® NATURAL INSULATION PANEL:

This footfall-reducing wood fibre insulation panel is available in the thicknesses 10 and 19 mm. If laid on screed or concrete, the installation of a moisture barrier is essential.

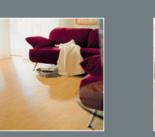
#### AGEPAN® MOISTURE BARRIER:

Effectively prevents the penetration of moisture when • For refurbishment, renovation and new construction wood material panels are laid on screed or concrete. AGEPAN® D3 ASSEMBLY ADHESIVE:

> NOVOPAN® chipboards. Can also be used for hardwood and softwood, ready-to-lay parquet, laminate, windows and doors.

#### AGEPAN® EDGE INSULATION STRIPS:

When laying wood materials on floors, a edge space of 15 mm must be left to allow adequate air circulation. This function is fulfilled by the AGEPAN® Edge Insulation Strip for wood fibre insulation with a height of 60 mm.







### AGEPAN® SYSTEM PRODUCTS. TECHNICAL SPECIFICATIONS AND PRODUCT RANGE.

The AGEPAN® Products	Nominal thicknesses	Dimensions, length x width (in mm)	Calculation dimensions (in mm)	Packing unit (pcs/package)	Certification	Euro- class	Construction material class	Formaldehyde emission class	Bulk density (kg/m³)	Thermal capacity (J/kg K)	Calculation value for thermal con- ductivity (W/mK)	Nominal value for thermal con- ductivity (W/mK)	Tear strength, tensile strength, panel plane (kPa)	Hydrophobising group	s <sub>d</sub> value (m)	Compressive strength (kPa)
AGEPAN® THD T+G 230	40	1,875 x 625	1,890 x 640	16	EN 13171 Z-23.15- 1508	E	B2	E1 – formal- dehyde-free bonding	230	2,100	0.050	0.047	≥ 10 (40 + 60 mm) ≥ 7.5 (80 mm)	WS 1.0	0.12	
	60			11											0.18	≥ 200
	80			8											0.24	
AGEPAN® THD 230	40	2,650 x 600	2,650 x 600	16	EN 13171 Z-23.15- 1508	E	B2	E1 – formal- dehyde-free bonding	230	2,100	0.050	0.047	≥ 10 (40 + 60 mm) ≥ 7.5 (80 mm)	WS 1.0	0.12	
	60			11											0.18	≥ 200
	80			8											0.24	
AGEPAN® UDP	22		2,520 x 610	28	EN 13171	E	B2	E1 – formal- dehyde-free bonding	270	2,100		0.051	20	WS 1.0	0.11	
	25	2,500 x 590		25											0.13	≥ 300
	32			20											0.16	
AGEPAN® DWD protect Standard	16	2,800 x 1,247	2,500 x 625 2,510 x 635	48	Z-9.1-382 E		B2	E1 – formal- dehyde-free bonding	565	2,100	0.090				0.18	
AGEPAN® DWD protect T+G	16	2,500 x 625		40		Е										
	16	2,500 x 1,000		40												
AGEPAN® TSR	40   60   80   100 120   140   160	1,350 x 600	1,350 x 600	56   36   28   22 18   16   14	EN 13171	E	B2		160	2,100	0.041	0.040			0.2   0.3   0.4   0.5 0.6   0.7   0.8	
AGEPAN® TEP	40	1,320 x 600 1,320 x		32	EN 13171 Z-23.15- 1508	E	B2	E1 – formal- dehyde-free bonding	230	2,100	0.050	0.047	≥ 10 (40 + 60 mm) ≥ 7.5 (80 mm)	WS 1.0	0.12	
	60		1,320 x 600	22											0.18	≥ 200
	80			16											0.24	
AGEPAN® OSB/3 – Standard panel – Contiface	6   8   9   10   12 15   18   20   22	2,500 x 1,250	2,500 x 625 2,500 x 625	130   100   80   80   68   54   44   40   36	EN 300 / EN 13986		B2, D-s2-d0	E1 < 0.1ppm	620	-	0.13	-	7.2	-	$\begin{array}{l} \mu \ value = \ 200\text{-}300 \\ s_d \ value = \ \mu \ x \ OSB \\ thickness \ (m) \end{array}$	-
AGEPAN® OSB/3 – Panel – 4-edge T+G – Contiface	12   15   18   22   25	2,500 x 625		68   54   44   36   32												
AGEPAN® OSB/3 – Panel – 4-edge T+G – sanded	15   18   22   25	2,500 x 625		54   44   35   32												
AGEPAN® OSB/3 – Construction-approved – Standard Contiface	12   15   18   22	2,500 x 1,250	2,500 x 1,250	68   54   44   36			B2, D-s2-d0	E1 < 0.03ppm	620	-	0.13	_	No characteristic values	-	$\mu$ value = 200-250 $s_d$ value = $\mu$ x OSB thickness (m)	-
		5,521 x 2,521	5,521 x 2,521	68   54   44												
	12   15   18	3,000 x 1,250	3,000 x 1,250	68   54   44												
		2,800 x 1,250	2,800 x 1,250	68   54   44												
		2,650 x 1,250	2,650 x 1,250	68   54   44												
		5,000 x 1,250	5,000 x 1,250	26   20   20	Z.9.1-424											
	15   18   22   25	5,000 x 2,500	5,000 x 2,500	16   12   10   10												
AGEPAN® OSB/3 – Construction-approved – Panel – 4-edge T+G – Contiface	15   18   22   25	2,500 x 1,250	2,500 x 1,250	54   44   36   32												
	15   18   22	2,500 x 625	2,500 x 625	54   44   36												
AGEPAN® OSB/3 –Construction-approved – Panel – sanded	12   15   18   22   25	2,500 x 625	2,500 x 625	68   54   44   36   32												
AGEPAN® OSB/4 PUR – Construction-approved – Standard Contiface	12   15   18	2,500 x 1,250	2,500 x 1,250	68   54   44	Z 9.1-595		B2, D-s2-d0	E1 – formal- dehyde-free bonding	650	-	0.13	-	12	-	μ value = 180-250 s <sub>d</sub> value = μ x OSB thickness (m)	-
	12   15	3,000 x 1,250	3,000 x 1,250	68   54												
		2,800 x 1,250	2,800 x 1,250	68   54												
		2,650 x 1,250	2,650 x 1,250	68   54												
		5,521 x 2,521	21 x 2,521 5,521 x 2521	68   54												
AGEPAN® OSB/4 PUR – Construction-approved – Panel – 4-edge T+G – Standard Contiface	12   15   18   22   25	2,500 x 625	2,500 x 625	68   54   44   36   32												
	15   18   22   25	2,500 x 1,250	2,500 x 1,250	54   44												

### LASTS LONGER THAN YOU THINK. THE MODERN AGEPAN® TIMBER HOUSE.

In many regions of the world, the timber house is considered second to none. Nevertheless, prejudices still exist in a few areas. Some doubt the stability and durability of a timber construction. Yet a modern timber house constructed with AGEPAN® Functional Wood® is as stable as a stone house. And certainly just as

The best examples for the longevity of timber houses are our good old half timbered houses, which are now over 700 years old.

The OSB panels of the AGEPAN® SYSTEM, used for walls and floors, for example, have an excellent loadbearing capacity in comparison with steel or concrete. The resistance of AGEPAN® Functional Wood® to weathering and pests has convinced every house owner who has built with the AGEPAN® SYSTEM.

We can illustrate the elasticity and resilience of AGEPAN® OSB panels. OSB panels have a comparatively low intrinsic weight, but they have an excellent load-bearing capacity. A theoretical comparative calculation shows:

If rods of each material, concrete, steel and OSB, were to be suspended from above, concrete would break at a length of 1,400 m and steel at 4,600 m. OSB, would reach a length of 6,800 m before breaking.

Quick assembly thanks to prefabricated wall elements.



The connections of the ceiling joists can also be prepared in advance.



Your house can be erected in a very short time.



### HOW WE BECAME WHAT WE ARE.

the conscious aim of doing everything possible to ensure a feeling of wellbeing when living in an AGEPAN® SYSTEM house. Among our innovations, for example, are the versatile Functional Wood® and a variety of insulating materials which have revolutionised the culture of living and wellbeing within one's own four walls. With our innovations, competence and the sweat of our brows, we have become what we are today, one of the leading manufacturers of wood materials in the world.

Our innovative wood materials have been created with The theme of sustainability has a central meaning for us. Many of our products can be recycled, as confirmed by the natureplus® certificate. And in 2008 we were awarded the DEKRA Seal for outstanding environmental and quality management and for work safety. So we are today in a position to say that we have done a great deal to conserve resources for wood as a material.







WE ARE PARTICULARLY PROUD OF THESE INNOVATIONS:

**1975** First industrially manufactured formaldehyde-free bonded chipboard

1996 Invention of the DWD 2003 Invention of the THD 2004 Invention of the UDP

2006 Further development to DWD protect



### WE SUPPORT YOU SYSTEMATICALLY.

We do all we can to support our partners systematically. In our Sonae Academy, for example, we regularly hold topic-specific training courses and seminars for dealers, planners, craftsmen and house owners. As basic information, we are giving you our System documentation. It provides you with all the specialist information you need, clearly structured. Detailed technical drawings, product information and working instructions.

So that your discussions with the house builder also go according to plan, we have developed a sales instrument: the AGEPAN® SYSTEM Sales Box. The Box contains combinable samples from the AGEPAN® SYSTEM, presentation materials for your consulting interview and other information material. If you would also like to take part in a training course, order samples or simply ask questions, we are always at your disposal on our hotline, +49(0)2653.7 12 98, and at www.agepan.de.



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