

**Kronobuild®**



**kronospan**



# Engineered to perform

At Kronobuild® we provide the UK construction and manufacturing industries with one of the most comprehensive ranges of wood based panel products. All our boards are designed to improve building performance, with ranges that includes both structural and non structural products, and all with environmental, quality and performance accreditation.

We maintain our leadership role by constantly reviewing and upgrading our products and processes, one example being the major investment in decontamination technology.

Add to this the experience gained from 115 years in the timber industry allied with the resources of 40+ manufacturing sites around the world and you have an unbeatable wealth of knowledge and capability at your disposal.

**Kronobuild®**

A World of Advanced Building Possibilities™





## ECOLOGY AND ENVIRONMENT

Kronobuild® construction boards are made from responsibly sourced wood. Their use is therefore of a significant environmental benefit.

Wood is one of the few sustainable raw materials, and its use has a positive impact on environmental protection. The growth of wood contributes to reducing CO<sub>2</sub> emissions in the atmosphere and consequently to the stability of the climate. Building from wood brings a significant reduction in energy consumption for construction compared to silicate-based materials.

Wood structures also meet the demand on high thermal-insulation of low energy and passive houses. This can already be achieved with thin walls, thus increasing the usable space inside the building. At the same time it facilitates the regulation of heat loss and reduces energy consumption for heating.

Kronobuild® building materials are manufactured primarily from wood originating from forests certified with FSC® or PEFC system controlling principles of ecological sustainable forest management. Kronobuild® boards are 100% recyclable.





# Engineered for versatility

## BOARDS FOR FLOORS, WALLS AND ROOFING

Kronobuild® product ranges include particleboards, OSB boards, wood fibreboards (MDF) and cement-bonded particleboards. We produce these large panel construction materials with the characteristic features appropriate for the intended final use in floors, walls and roofing.

All these products meet the requirements of the Harmonised European Standard hEN 13986, part ZA and other valid regulations for distribution and sale of boards within the European Economic Area. Validity of all certificates and protocols are continuously monitored and updated as necessary. (There are other certificates for countries outside the European Union issued under valid regulations of each country).

EN 13986 Standard “Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking” regulates all legal construction interests in respect of the Construction Products Directive (CPD). It applies to wood-based boards used as structural and non-structural components in dry, wet and outdoor environment.





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**NEW OSB Firestop**  
Cladding in public buildings with increased fire regulations



**NEW OSB Airstop**  
Used in construction of modern low-energy passive housing



# Kronobuild® OSB

## ENGINEERED FOR STRENGTH AND STABILITY

OSB, or “Oriented Strand Board” is made from thin strands of timber stacked in oriented layers connected by a synthetic resin. OSB boards are currently the most widespread woodbased materials for a variety of structural applications.

Boards do not contain the defects common to natural solid wood (knots, cracks, etc.), the chip size in the surface layer creates a finish with a colour and rustic appearance of natural wood but is engineered above all to bring strength and stability to building structures.

OSB is manufactured from quality virgin wood; thin strands are gently dried, applied with a synthetic resin with a fixed proportion of paraffin emulsion and bonded under high pressure and temperature. Excellent mechanical properties are achieved by selecting suitable wood, defined shape of wood strands, and in particular crosswise orientation stacking of the three individual layers. Dimension, shape and direction orientation of strands in individual layers make maximum use of the natural wood properties for achieving the best structural capabilities. The strands on OSB surface layers are oriented in the longitudinal direction and in the base layer the strands are oriented across the panel, these two directions of strand orientation in each layer give the board a higher level of dimensional stability and excellent mechanical efficiency. At the same time boards show several times higher strength in the longitudinal board (major axis) than in the crosswise direction (minor axis). Correct panel orientation towards support is important especially during installation. This is the main difference when comparing OSB to particleboards and wood fibreboards where strength is lower but the same in all board directions.

KRONOSPAN'S OSB boards are produced within basic trademark OSB Superfinish. KRONOSPAN continuously invests in the development of new products based on OSB Superfinish, extending to the specialist boards; OSB Firestop and OSB Airstop.



## OSB 2



OSB 2 is designed for use where a high performance board is required which provides dimensional stability and load bearing capabilities for use in dry conditions.

### Standard

EN 300 - type OSB 2; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 13986). No added Formaldehyde

### Applications

- Commonly used for shelving and platform construction
- Pallet manufacture
- Packaging
- Boarding up
- Signboards
- Upholstered furniture frames,
- Shopfitting
- Bar and hotel fitting
- Exhibition stands

Dimensions Size	Thickness	Boards per pack
2440 x 1220mm	11mm	60
2440 x 1220mm	18mm	36

## OSB 3



OSB 3 is designed for use where a high performance board is required which provides dimensional stability and load bearing capabilities especially suited for use in humid conditions.

### Standard

EN 300 - type OSB 3; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 13986). No added Formaldehyde

### Applications

- Internal load-bearing cladding of walls and ceilings, partitions
- Roofing, sarking and SIPs panels
- Interior design
- Billboard production
- Exhibitions (displays, stands, kiosks)
- Flooring base
- Framework for upholstered furniture
- Load-bearing wall sheathing
- Packaging
- Warehouse management (racks, fences, etc.).

Dimensions Size	Thickness	Boards per pack
2397 x 1197mm	9mm	72
2440 x 1220mm	11mm	60
2440 x 1220mm	18mm	36

## OSB 3 Flooring



High load-bearing capacity, durability and resistance, making it the ideal flooring OSB type. Superfinish OSB is developed and manufactured to the highest ecological standards.

### Standard

EN 300 - type OSB 3; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 13986). No added Formaldehyde

### Applications

- Domestic Floating Floors
- Interior Design
- Exhibitions

Dimensions Size	Thickness	Boards per pack
2440 x 590mm	18mm	36

## OSB Firestop



The base panel is OSB 3 type described by EN 300 standard as load-bearing board equipped with patented fire-resistant Pyrotite finish on one or both sides. OSB Firestop has a good classification in the evaluation of reaction to fire. According to European classification (EN 13501-1), it meets class B-s1, d0. The Pyrotite finish coating consists of fireproof materials that are based on magnesium oxide, reinforced with a fiberglass mesh. This finish provides a very strong connection with, OSB board in addition to the high resistance to fire.

### Standard

EN 300 - type OSB 3; EN 13501-1: class B-s1, d0

### Formaldehyde class

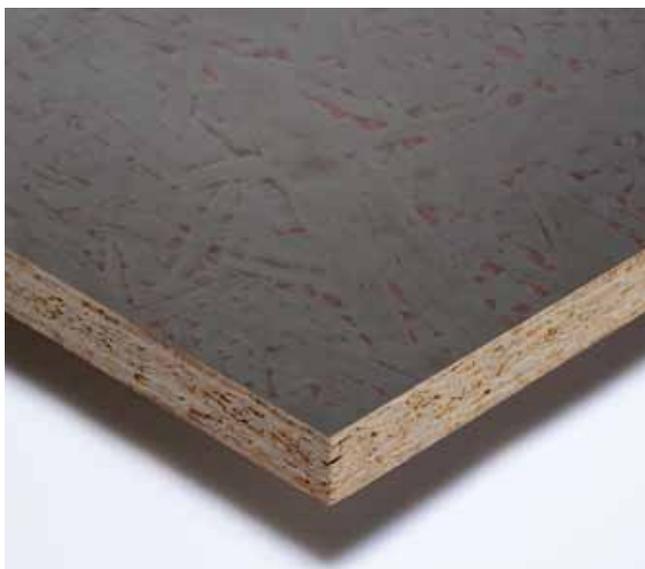
E1 (EN 13986). No added Formaldehyde

### Applications

- Internal wall and ceiling linings
- Construction of roofs or shelters
- Cladding in public spaces with increased fire assessment requirements
- Load-bearing board for floor decking, roofing and wall sheathing

Dimensions Size	Thickness	Boards per pack
2500 x 1250mm	16mm	44
2500 x 1250mm	19mm	37
2500 x 1250mm	23mm	30

## OSB Airstop



The core board is OSB 3 type (load-bearing board for use in humid conditions). A special foil of cellulose is applied on this board via an adhesive laminating process. The foil reduces the differences in the boards' heterogeneity therefore giving the precise defined values of airtightness and vapor resistance. This allows for the simultaneous installation of reinforced sheathing, airtight barrier and vapor check. OSB focuses closely on modern low-energy and passive wooden houses which have higher requirements for airtightness.

### Standard

EN 300 - type OSB 3; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 13986). No added Formaldehyde

### Applications

- Building envelopes on passive houses (low-energy; zero-energy houses)
- Load-bearing board for wall and roof sheathing
- Load-bearing cladding of exterior walls or roofs
- Structural roof decking
- Internal non-load-bearing cladding of walls and ceilings, partitions

Dimensions Size	Thickness	Boards per pack
2800 x 1250mm	15mm	47
2800 x 1250mm	18mm	39





# Kronobuild® Particleboard

## ENGINEERED FOR RELIABILITY, ADAPTABILITY AND FUNCTIONALITY

Particleboards (PB) are one of the most commonly used woodbased materials for a multitude of applications. The boards are manufactured from wood chips and synthetic resin based binders pressed under high temperatures and pressure. KRONOSPAN manufactures a wide range of particleboards; each board type has its own product characteristics specifically developed for its intended use. The Kronobuild® product line of particle boards includes - P2, P5, P2 Loft Panels, Fast Clean and Weatherprotect.



## Particleboard P5 Flooring



Particleboard P5 is load-bearing panel with increased resistance to humid conditions with a high dimensional stability and stiffness.

### Standard

EN 312 - type P5; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 120)

### Applications

- Domestic Floating Floors
- Areas that require protection from moisture
- Humid areas, kitchens / bathrooms
- Structural roof decking
- Various self-supporting components in construction and transportation

Dimensions Size	Thickness	Boards per pack
2400 x 600mm	18mm	86
2400 x 600mm	22mm	70

## Particleboard P2 (PB P2)



Particleboard P2 is non-load-bearing panel for interior use in dry conditions with high dimensional stability and stiffness.

### Standard

EN 312 - type P2; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 120)

### Applications

- Interior design
- Furniture components
- Internal non-load-bearing cladding of walls and ceilings, partitions
- Sub-floors and base boards for flooring systems
- Possible surface finishing by laminating, backing, veneering

Dimensions Size	Thickness	Boards per pack
2440 x 1220mm	12mm	68
2440 x 1220mm	15mm	54
2440 x 1220 / 3050 x 1220mm	18mm	45

## Fast Clean



Fast Clean is a structural flooring solution designed for joisted and floating floor applications. The floor is a combination of P5 grade, structural particleboard finished with a hard wearing, slip resistant and easily removed waterproof film.

### Standard

EN 312 - type P5; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 120)

### Applications

Particleboard flooring as a platform to provide full temporary weather protection allowing other trades to work safely above and beneath.

Dimensions Size	Thickness	Boards per pack
2400 x 600mm	18mm	86
2400 x 600mm	22mm	70

## Weatherprotect



Manufactured from P5 structural flooring grade particleboard with a weather resistant layer on the top surface.

### Standard

EN 312 - type P5; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 120)

### Applications

Particleboard flooring as a platform to provide full temporary weather protection allowing other trades to work safely above and beneath.

Dimensions Size	Thickness	Boards per pack
2400 x 600mm	18mm	86
2400 x 600mm	22mm	70

## P2 Loft Panels



Particleboard P2 Loft Panels are non load-bearing panels with increased resistance to humid conditions with a high dimensional stability and stiffness.

### Standard

EN 312 - type P2; EN 13501-1: class D-s1, d0

### Formaldehyde class

E1 (EN 120)

### Applications

- Domestic loft Flooring

Dimensions Size	Thickness	Boards per pallet
1220 x 320mm	18mm	153 (packs of 3)





# Kronobuild® Fibreboard

## ENGINEERED FOR A GREAT FINISH

MDF, or “Medium Density Fibreboards” are manufactured in compliance with European standard EN 622-5. They are applicable particularly in furniture and indoor equipment production. Its special construction makes it suitable for further finishing (milling, lacquering, laminating and foiling). The Kronobuild® product line of fibreboards includes, as well as standard MDF, boards with specialist application properties – moisture resistant MR MDF, lightweight MDF, Fire Retardant FR MDF, Deep Router MDF and HDF types. These products apply particularly in construction applications but also in the furniture and packaging industries. All types of boards are defined in European standard EN 622-5.



## Medium Density Fibreboard (MDF)



Medium Density Fibreboard (MDF) is engineered board produced from resin bonded wood fibers under high pressure and heat. MDF is a non-load-bearing product for interior use in dry conditions sanded to give a very fine surface, MDF is suitable for different coatings – veneering, laminating, painting and varnishing. Kronospan MDF can be used as a building material as a substitute for timber in non-load-bearing walls, ceilings, partitions etc.

### Standard

EN 316; EN 622-5

### Formaldehyde class

E1 (EN 120)

### Applications

- Interior design
- Furniture components
- Decorative features
- Routing and machining
- Packaging
- Substitute of timber
- Cladding

Dimensions Size	Thickness	Boards per pack
2440 x 1220 / 3050 x 1220mm	9mm	90
2440 x 1220 / 3050 x 1220mm	12mm	68
2440 x 1220 / 3050 x 1220mm	15mm	54
2440 x 1220 / 3050 x 1220mm	18mm	45
2440 x 1220 / 3050 x 1220mm	22mm	37
2440 x 1220 / 3050 x 1220mm	25mm	32
2440 x 1220 / 3050 x 1220mm	30mm	27

## Lightweight MDF



All the benefits of our standard MDF with particular applications where a lighter weight is desirable.

### Standard

EN 316; EN 622-5

### Formaldehyde class

E1 (EN 120)

### Applications

- Interior design
- Furniture components
- Partitions
- Areas that require protection from moisture
- Cladding
- Exhibitions (displays, stands, kiosks)
- Packaging
- Retail and commercial applications
- Skirting boards / architrave
- Window boards / sills

Dimensions Size	Thickness	Boards per pack
2440 x 1220mm	12mm	68
2440 x 1220 / 3050 x 1220mm	15mm	54
2440 x 1220 / 3050 x 1220mm	18mm	45

## Moisture Resistant MDF (MR MDF)



MDF MR are boards for non-load-bearing use in dry and humid conditions. MDF MR is manufactured in compliance with EN 622-5 as MDF HLS type and is defined as structural component for use in humid conditions for instantaneous or short-term periods of load only. Boards are particularly suitable for construction applications that require panels with high load-bearing capacity and moisture resistance and for a wide range of interior applications. The boards are produced with green-colored fiber as standard.

### Standard

EN 316; EN 622-5

### Formaldehyde class

E1 (EN 120)

### Applications

- Interior design
- Furniture components
- Areas that require protection from moisture
- Window sills; Skirtings
- Decorative features
- Routing and machining

Dimensions Size	Thickness	Boards per pack
2440 x 1220 / 3050 x 1220mm	9mm	80
2440 x 1220 / 3050 x 1220mm	12mm	68
2440 x 1220 / 3050 x 1220mm	15mm	54
2440 x 1220 / 3050 x 1220mm	18mm	45
2440 x 1220 / 3050 x 1220mm	22mm	37
2440 x 1220 / 3050 x 1220mm	25mm	32

## Fire Retardant MDF (FR MDF)



MDF FR are non-load-bearing boards with improved fire retardant properties and are manufactured in compliance with European standard EN 622-5 where they are defined as boards for general use in dry conditions. MDF FR is increasingly used particularly in public spaces where stringent fire regulations must be met. According to EN 13501-1 boards are classified B-s2, d0 in terms of reaction to fire.

### Standard

EN 316, EN 622,-5 - type MDF; EN 13501-1: class B-s2, d0

### Formaldehyde class

E1 (EN 120)

### Applications

- Cladding in public spaces with increased fire risk assessment requirements
- Non-load-bearing walls, ceilings and partitions
- Door production with increased fire risk evaluation
- Production of interior design elements
- Furniture applications in public spaces (libraries, schools, hospitals, cinemas) usually with increased fire risk assessment requirements

Dimensions Size	Thickness	Boards per pack
2440 x 1220mm	12mm	30
2440 x 1220mm	18mm	20

## Deep Router MDF



Deep Router MDF is engineered board produced from resin bonded wood fibres under high pressure and heat. MDF is a non load-bearing product for interior use in dry conditions. Sanded to give a very fine surface, Kronobuild® Deep Router Grade MDF is ideal for use where a superior finish is required when routing deep into the core. Used primarily in kitchen and bedroom doors, deep router grade is also suitable for all high quality applications.

### Standard

EN 316 , EN 622-1

### Formaldehyde class

E1 (EN 120)

### Applications

- Kitchen and Bedroom doors

Dimensions Size	Thickness	Boards per pack
2440 x 1220mm	18mm	32
2620 x 2070mm	18mm	32, 45

## High Density Fibreboard (HDF)



HDF is an engineered board produced from resin bonded wood fibers under high pressure and heat. HDF is a non-load-bearing product for interior use in dry conditions. HDF, due to its very fine surface, is suitable for different coatings – veneering, laminating, painting and varnishing. Kronospan HDF is available in a variety of thicknesses, and a sanded surface to one or both sides.

### Standard

EN 316; EN 622-1

### Formaldehyde class

E1 (EN 120)

### Applications

- Interior design
- Furniture applications
- Cupboard backs
- Draw bases
- Packaging
- Flooring base
- Sandwich panels

Dimensions Size	Thickness	Boards per pack
2440 x 1220mm	3mm	200
2440 x 1220mm	4mm	150
2440 x 1220mm	6mm	150

## Accessories

### Fast Clean & Weatherprotect



Fast Clean and weatherprotect boards should be used with the custom fixing kit to ensure BBA requirements are met.

#### D3 and D4 adhesive

For a strong lasting bond, D3 for Fast Clean and D4 for Weatherprotect is applied to the top of the joists or the i-joist flange and all tongue and grooved joints.

#### Fast Clean tape

Tape is required to seal all exposed board edges and nail runs as laying progresses.

### OSB Firestop



Putties for basic and final bonding including reinforcing tape are available for Firestop OSB boards. Putties are applied in similar way as when bonding gypsum based boards.

#### Firestop Basic Putty (14 kg)

Fire retardant acrylic putty applied with a wide spatula for basic and final bonding between boards with a flexible reinforcing tape inserted on top of the putty to cover the surface of the gap. High elasticity of the putty results in lower grindability. If you need to create a smooth surface, you must also apply „Firestop finish putty“ on the basic putty.

#### Reinforcing Tape

A flexible reinforcing strip or tape is applied into the Basic Firestop putty. Tape increases the ductility and strength of the putty between boards. The tape is 60 mm wide and 100 m long.

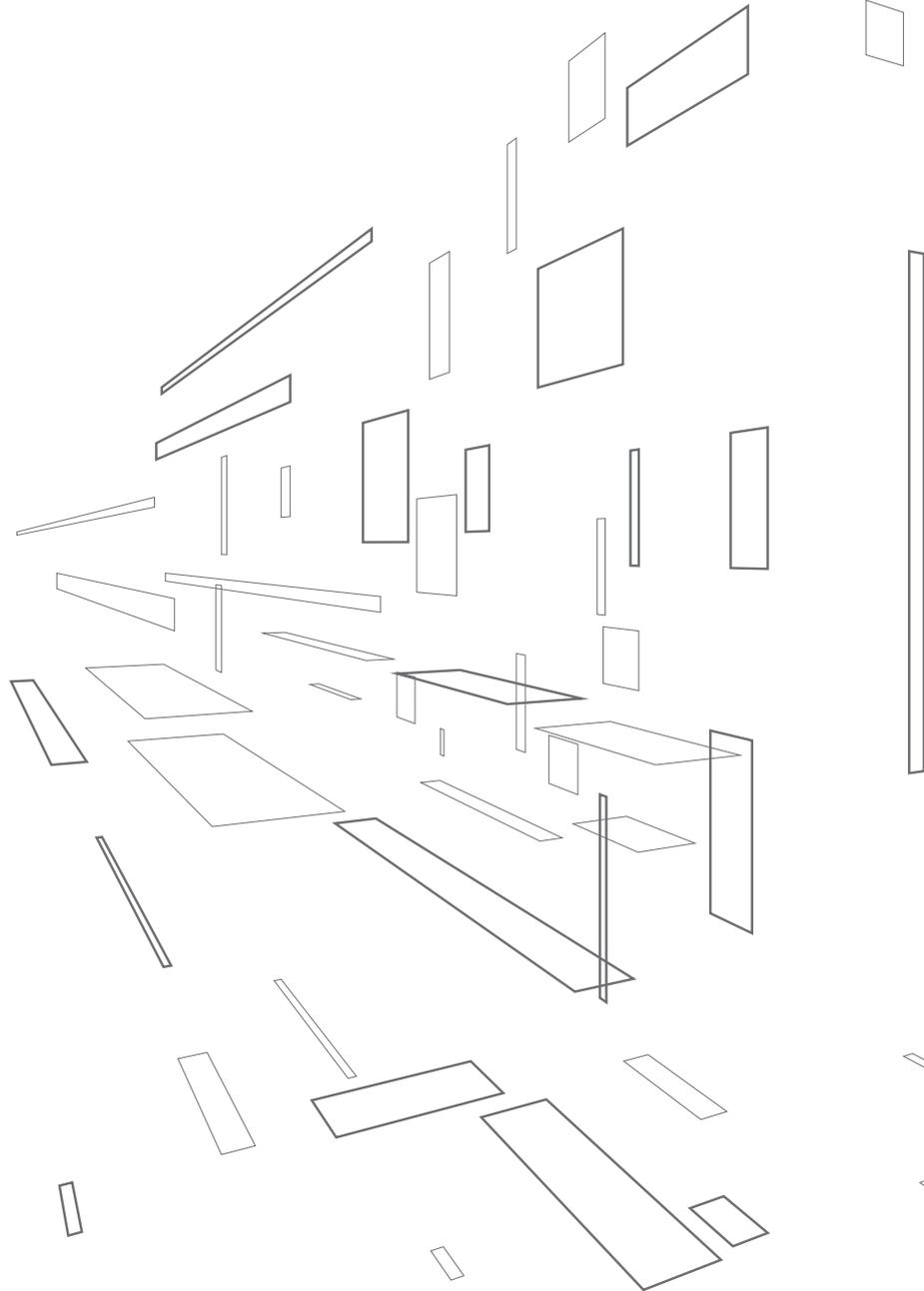
#### Firestop Finish Putty (14 kg)

Firestop Finish putty may be applied only after the Basic Firestop putty has completely dried out (at least 24 hours). The putty is applied with a flat fine spatula over joints, gaps fasteners, and over irregularities on the surface. If necessary, the entire surface may be resealed. After drying, Firestop Finish putty may be sanded with an abrasive mesh.

# Product availability

KRONOBUILD	Formal (mm)		2440 x 1220															2500 x 1250			2620 x 2070	2800 x 1250		3000 x 1250	3050 x 1220										
	1220 x 320	2397 x 1197	2400 x 600	2440 x 590	3	4	6	9	11	12	15	18	22	25	30	16	19	23	18	15	18	15	9	12	15	18	22	25	30						
Thickness (mm)	18	9	18	22	18																														
<b>OSB</b>																																			
OSB 2									●						●																				
OSB 3		●							●					●																					
OSB 3 Flooring					●																														
OSB Firestop																	●	●	●																
OSB Airstop																						●	●												
<b>PARTICLEBOARD</b>																																			
P5 Particleboard Flooring			●	●																															
P2 Loft Panels	●																																		
P2 Particleboard											●	●	●																		●				
Fast Clean			●	●																															
Weatherprotect			●	●																															
<b>FIBREBOARD</b>																																			
MDF									●	●	●	●	●	●	●													●	●	●	●	●	●	●	
Lightweight MDF										●	●	●																	●	●					
MR MDF									●	●	●	●	●	●	●													●	●	●	●	●	●		
FR MDF										●																									
Deep Router MDF																												●							
HDF						●	●	●																											

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