PLADUR® by etex

NEW

CERTIFIED HIGH LOAD CAPACITY

FIRE RESISTANCE

ACOUSTIC COMFORT

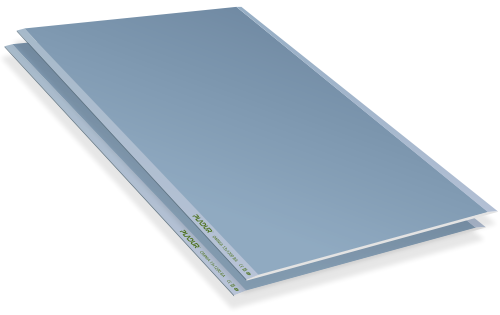
MOISTURE RESISTANCE

HIGH HARDNESS

OMNIA

Pladur® Board

ALL IN ONE BOARD
FOR ALL YOUR WORK



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OMNIA Pladur® Board

ONE EXCELLENT ALL-ROUNDER

CERTIFIED HIGH LOAD CAPACITY

OMNIA Pladur® Board offers a higher load capacity than a standard board*. The use of **OMNIA** Pladur® Board increases the hanging capacity per point:

- **Up to 50 kg** with a single **OMNIA** Pladur® Board
- **Up to 80 kg** with two **OMNIA** Pladur® Boards

* Based on the test results in report 113801, cladding with **OMNIA** Pladur® Board increases the hanging capacity per point. **OMNIA** Pladur® Board cladding can withstand higher shear, pull-out and combined loads than those derived from the UNE 102043 standard.

INCREASED ACOUSTIC COMFORT

OMNIA Pladur® Systems provide an acoustic improvement of up to **+3dBA** over standard systems, making them an enhanced solution for optimal insulation.

HIGH SURFACE HARDNESS

Produced with balanced and increase density and improved surface hardness, **OMNIA** Pladur® Board is classified as a D and I board, minimizing maintenance impacts by being more resistant and durable.

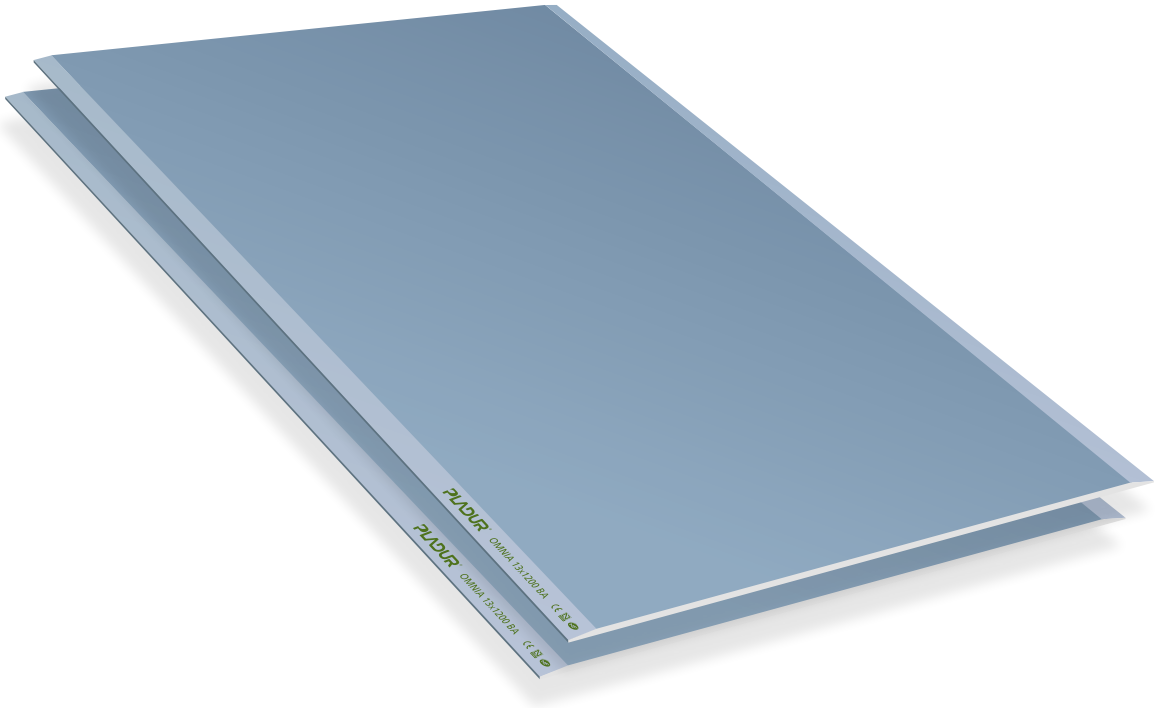
GREATER FIRE PROTECTION

The **OMNIA** Pladur® Board has been designed to better resist fire, offering greater safety and peace of mind. Thus, our **OMNIA** Pladur® partitions, linings, and ceilings have the same fire certifications as the **F** Pladur® Board.

MOISTURE RESISTANCE

With very low water absorption (<5%), the **OMNIA** Pladur® Board maintains its properties even in humid environments, with the same level as **H1** Pladur® Boards.

The versatility of the **OMNIA** Pladur® Board panel makes it easy to choose the perfect solution for each of the needs that arise in a project. Its numerous improved properties allow the execution of all types of partitions, wall cladding, ceilings or special systems in multiples situations.



TECHNICAL DATA

Properties	Values	
Colour	Face - Blue Back - Grey (Kraft)	
Longitudinal edge Transversal edge	BA (refined) BCT (cut)	
Thickness (mm)	12.5	15
Weight (kg/m²) approx.	12.6	15.1
Flexural strength (N)	Longitudinal	
	>725	>870
	Transversal	
	≥300	≥360
Thermal conductivity (λ) (W/mK)	≤0.25	≤0.25
Thermal resistance (m²K/W)	≥0.05	≥0.05
Surface hardness (indentation) (mm)	Ø ≤15	Ø ≤15
Water Absortion (mass)	<5%	<5%
Surface water Absorción (g/m²)	<180	<180
Fire reaction	A2 s1, d0	
Aplicable standard / certifications	EN-520	
Classification (according to EN-520)	I, D, F, R, H1	

OMNIA Pladur® Board is a laminated plasterboard composed of a core of **100% natural**, very high-density **gypsum**, with a water-repellent treatment and covered on both sides by a special cellulose sheet. The fibreglass incorporated into the core **increases its fire resistance**. The water-repellent treatment reduces its water absorption capacity, thus enhancing its **moisture resistance**. Its special formulation and high density also provide **better acoustic insulation, greater impact resistance, and high load-bearing capacity**.

ONE BOARD
INFINITE ADVANTAGES

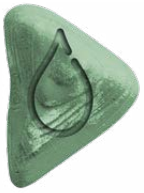
MEETS MULTIPLE REQUIREMENTS WITH A SINGLE BOARD

The **OMNIA** Pladur® Board has certifications for acoustic insulation, fire resistance, moisture resistance, mechanical strength, and high load capacity.

BETTER COORDINATION IN THE DESIGN PHASE AND ON SITE

Simplifies planning and execution by facilitating effective coordination at all stages, allowing a more precise control of the materials used.

AVOIDS MISTAKES



By using a single type of board, we avoid errors and complications associated with selecting different materials according to the requirements of each room.

MINIMUM WASTE

A unique solution for the entire project. The **OMNIA** Pladur® Board minimizes waste, optimizes material usage, and offers a more sustainable alternative.

OPTIMIZATION OF STOCKPILES

The large amount of materials used in a construction project can be a challenge. With the **OMNIA** Pladur® Board, we simplify and reduce the volume of materials needed, optimizing storage space throughout the construction process.

IDEAL FOR SMALL CONSTRUCTION SITES

Its multi-task-ability makes it the perfect solution for renovations and small-scale projects. With one type of board, it is possible to cover all needs, maximizing resources and simplifying processes.

SUSTAINABLE DEVELOPMENT

NATURAL GYPSUM

The **OMNIA** Pladur® Board is made by 100% natural gypsum, thus contributing to the creation of more sustainable and environmentally friendly spaces.

100% RECYCLABLE

It is a fully recyclable material, which helps reduce greenhouse gas emissions and eliminate its environmental impact.

SUSTAINABLE MANUFACTURING

Our sustainable production certified by **AENOR N Sustainable**, seeks to drive the transformation of the industry towards a greater commitment to sustainability in environmental, but also social and governance aspects, aligning itself with the same objectives of the Level(s) seal.

MEETING THE HIGHEST DEMANDS

LEED AND BREEAM CERTIFICATIONS

The **OMNIA** Pladur® Board contributes to making your building more sustainable by providing more efficient and environmentally friendly solutions, as well as optimizing resources to help reducing the environmental impact of buildings.

INDOOR AIR QUALITY

This board contributes to improving the indoor air quality of buildings, as it has an **A+** classification and the **EUROFINS INDOOR AIR COMFORT (GOLD)** certification, which certifies the lowest levels of volatile organic compound emissions, evaluated and certified by an accredited external body supported by multiple tests and audits.

ENVIRONMENTAL PRODUCT DECLARATION

At **Pladur®** we quantify and monitor the environmental impact of our boards, pastes, and profiles throughout their life cycle through **Environmental Product Declarations**.

FSC CERTIFIED

The cellulose in **Pladur®** boards contributes to responsible forestry and avoids deforestation and is covered by the **FSC** certificate.

ONE SINGLE BOARD FOR ALL YOUR WORK

In educational centres, the **OMNIA** Pladur® Board board is the ideal solution due to its versatility: its high hardness **reduces maintenance**, provides **more peace of mind** as a fire barrier, **improves acoustic insulation, and is moisture resistant**.

A board with the **best features**, perfect for offering **greater acoustic comfort** and **load capacity** for furniture and decorations. **OMNIA** Pladur® Board, in residential buildings, stands for **maximum quality**.

Thanks to its numerous features, the **OMNIA** Pladur® Board is the perfect solution for installation in projects with different requirements such as **schools, hospitals, hotels, commercial areas, and homes**, both in new construction and renovation.

An ideal solution for hospital areas, where **greater acoustic comfort, fire protection**, and **higher surface resistance** in the walls are required.

Perfect for commercial areas, restaurants, and hotels where **acoustic insulation, fire protection,** and **reduced maintenance** are key characteristics.

HIGHER ACOUSTIC COMFORT

Discover a solution that **takes acoustic comfort to the next level (+3 dBA)**. Designed to significantly reduce noise from room to room, **OMNIA** Pladur® Board achieves insulation that surpasses standard boards, (equivalent) similar or like to our **FONIC** Pladur® Board. It is ideal for the most demanding environments that require peace and privacy, such as offices, homes, or public spaces.

In the examples shown below, we will compare the same partition solutions between different units of use with **N** Pladur® Board and **OMNIA** Pladur® Board.

OPTIMAL SOLUTIONS FOR

EDUCATIONAL CENTRES

Partition wall between classrooms						
Profile	System	Boards	Receiving volume (m^3)	Contact surface (m^2)	Board	Acoustic insulation DnTA (dBA)*
Stud Pladur® **M 48-35**	171 (48-35 + 15 + e + 48-35) 2MW libre	5 x 15	215	27	N	60
					OMNIA	63

+3 dBA

RESIDENTIAL BUILDINGS

Partition wall between houses						
Profile	System	Boards	Receiving volume (m^3)	Contact surface (m^2)	Board	Acoustic insulation DnTA (dBA)*
Stud Pladur® **M 48-35**	171 (48-35 + 15 + e + 48-35) 2MW libre	5 x 15	34	13	N	57
					OMNIA	60

+3 dBA

*** Simulation of airborne sound insulation between different units of use, comparing solutions with **N** Pladur® Board and Pladur® **OMNIA** Pladur® Board panels. All calculations are based on real projects according to the DB HR of the CTE.*

HOTELS

Profile	Partition wall between rooms System	Boards	Receiving volume (m^3)	Contact surface (m^2)	Board	Acoustic insulation DnTA (dBA)*
Stud Pladur® **M 48-35**	171 (48-35 + 15 + e + 48-35) 2MW libre	5 x 15	63	21	N	56
					OMNIA	59

+3 dBA

HOSPITALS

Profile	Partition wall between rooms System	Boards	Receiving volume (m^3)	Contact surface (m^2)	Board	Acoustic insulation DnTA (dBA)*
Stud Pladur® **M 70-35**	215 (70-35 + 15 + e + 70-35) 2MW libre	5 x 15	50	15	N	58
					OMNIA	61

+3 dBA

COMMERCIAL AREAS

Profile	Partition wall between premises System	Boards	Receiving volume (m^3)	Contact surface (m^2)	Board	Acoustic insulation DnTA (dBA)*
Stud Pladur® **M 90-45**	255 (90-45 + 15 + e + 90-45) 2MW libre	5 x 15	749	67	N	66
					OMNIA	70

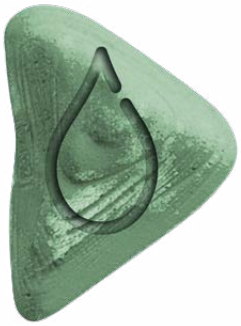
+4 dBA

*** Simulation of airborne sound insulation between different units of use, comparing solutions with **N** Pladur® Board and Pladur® **OMNIA** Pladur® Board panels. All calculations are based on real projects according to the DB HR of the CTE.*

HIGH DURABILITY

Exceptional protection and durability in every detail. With improved surface hardness, **OMNIA** Pladur® Board offers superior impact and scratch resistance, comparable to high hardness boards. The perfect choice for heavily used spaces or areas likely to have impacts, such as schools, hospitals or public and crowded areas.

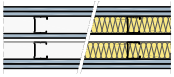
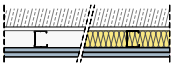
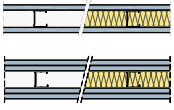
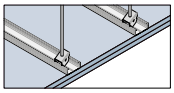
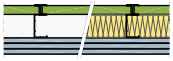
MOISTURE RESISTANT



Designed to maintain its performance even in wet environments, **OMNIA** Pladur® Board meets **H1** classification requirements. Perfect for bathrooms, kitchens or any space where moisture is a challenge. It combines **safety and durability** for ideal and seamless functionality.

SAFETY AGAINST FIRE

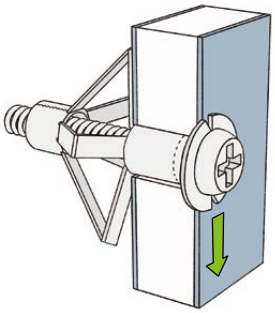
Assures protection in critical situations. With a fire resistance like type **F** panels, **OMNIA** Pladur® Board is the ideal solution to increase safety in residential, commercial or industrial projects, providing confidence and calmness in the event of fire risks.

Systems	Board type	Clasification
 **Partition walls (double estructure)**	N / H1 / I	EI 60 / EI 90
	F / Omnia	EI 120
 **Self-supporting wall cladding**	N / H1 / I	EI 30
	F / Omnia	EI 60 / EI 90
	Magna	EI 120
 **Distribution walls (single structure)**	N / H1 / I	EI 30 / EI 60 / EI 90 / EI 120
	F / Omnia	EI 60 / EI 120
	Magna / Magna H1	EI 90 / EI 120 / EI 180
 **Ceilings**	N / H1	EI 30
	F / Omnia	EI 60 / EI 90
	Magna / Magna H1	EI 90 / EI 120
 **Special System (Double braced estructure)**	N / H1 / I	EI 60
	F / Omnia	EI 120
 **CH System (shaft wall)**	CH + F / Omnia	E 120 / EI 180

HIGH LOAD CAPACITY

Unlimited applications thanks to its ability to support additional loads. The **OMNIA** Pladur® Board allows for more secure and firm fixings, making it ideal for shelves, hanging furniture, or other relatively heavy items. The perfect solution to combine functionality and strength in any type of installation.

SHEAR LOADS

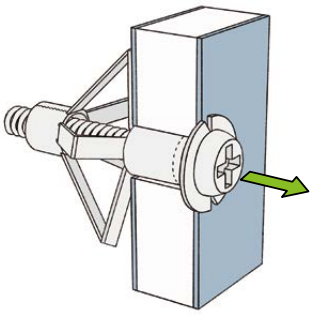


These are loads of objects that do not stick out excessively and therefore only exert a generally vertical and downward force. These loads are those applied to objects that we hang and that barely poke out from the plane, such as a painting.

The following table shows the maximum level loads for different **OMNIA** Pladur® cladding configurations.

Wall Composition	Máximum load per point (kg)
1 **OMNIA** Pladur® Board **13/15**	50
1 **N** Pladur® Board **13/15** + 1 **OMNIA** Pladur® Board **13/15**	50
2 **OMNIA** Pladur® Boards **13/15**	80

PULL-OUT LOADS



These are loads perpendicular to the surface of the facing and applied from the inside to the outside. Such as those exerted by a wall plug used to anchor a piece of furniture to prevent it from sagging.

The following table shows the maximum pull-out loads for different **OMNIA** Pladur® cladding configurations.

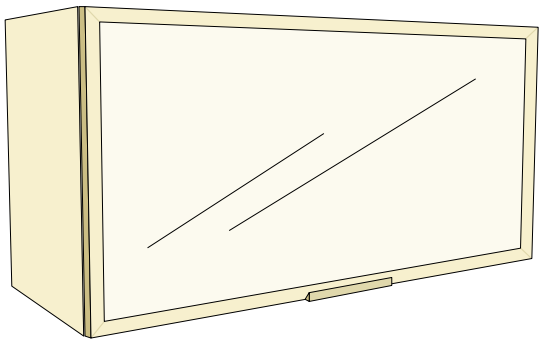
Wall Composition	Máximum load per point (kg)
1 **OMNIA** Pladur® Board **13/15**	25
1 **N** Pladur® Board **13/15** + 1 **OMNIA** Pladur® Board **13/15**	25
2 **OMNIA** Pladur® Board **13/15**	33

The minimum distance between anchor points must be 40 cm or more, in accordance with UNE 102043:2013.

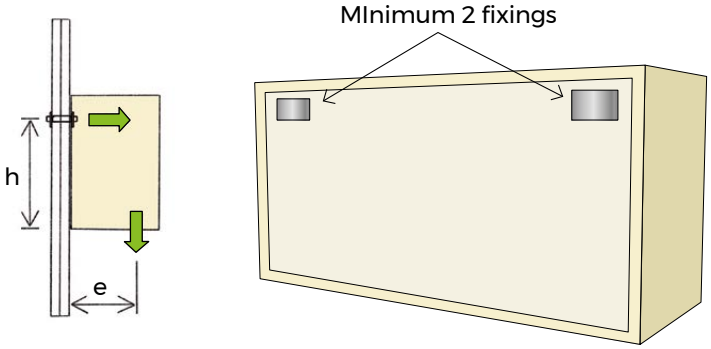
Data obtained by applying a safety coefficient, in accordance with test report 113801. The tests were carried out using metal anchors for hollow materials of the 'umbrella' type with a diameter of 12 mm and metric M6 screws.

The anchors used must be specific for hollow materials, with a length appropriate to the thickness of the facing, and must guarantee a maximum admissible load equal to or greater than that indicated in the tables. The anchor manufacturer must certify this load per point on the gypsum board support.

CONTINUOUS ECCENTRIC LOADS



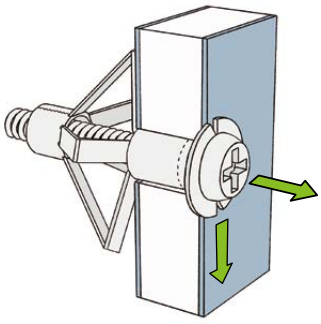
These are loads that **stick out considerably from the wall** and therefore their centre of gravity has been substantially displaced from the anchoring plane (**e**), exerting a lever force. This can be the load of a suspended kitchen cabinet.



To achieve maximum resistance and good performance of the anchors, we must properly distribute the loads, for which it is recommended that:

- **the number of fixings** per element be **at least 2**.
- **the minimum distance** between fixings be equal to or greater than **40 cm horizontally** (according to UNE 102043).
- **the height (h)**, from the fixing point to the lower support point of the eccentric load, **be as large as possible and in no case less than 15 cm**, thus minimising the lever effect.

COMBINED LOADS (SHEAR + PULL-OUT)

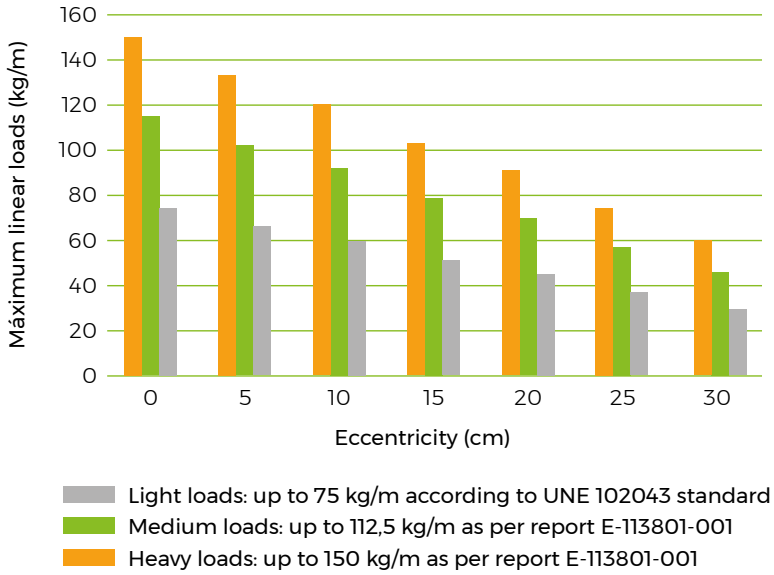


Eccentric loads cause both shear and pull-out loads.

Based on the results of tests recorded in report E-113801-001, claddings with **OMNIA** Pladur® Board **support shear, pull-out, and combined loads higher* than those derived from the UNE 102043 standard.**

** According to the conditions established in the technical study E-113801-001, including the reduction of the maximum height of the partition or lining..*

CONTINUOUS LIGHT, MEDIUM AND HEAVY LOADS



The laminated plasterboard partitions and wall linings admit continuous light loads, up to 75 kg/ml, according to UNE 102043 standard.

OMNIA Pladur® partitions and wall linings allow the use of **higher loads, medium and heavy loads,** in addition to light loads according to Tecnalia technical study E-113801-001.

Depending on the type of load (light, medium or heavy), the most suitable system must be chosen (**OMNIA** Pladur® partitions or wall linings) and, depending on this, the maximum height must be determined (see tables on page 16).

The following tables show the pull-out loads per point for each of the load types, depending on the anchorage points per linear metre and the height (h), measured from the point of attachment to the lower support point of the load.

Anchor points /m	Light loads							Medium loads							Heavy loads						
	Height (h)							Height (h)							Height (h)						
	15	20	25	30	40	50	60	15	20	25	30	40	50	60	15	20	25	30	40	50	60
0.75					32	26	22							32							
1				32	24	19	16						29	24							32
1.5		32	26	22	16	13	11				32	24	19	16					32	26	22
2	32	24	19	16	12	9,5	7,9			29	24	18	15	12				32	24	19	16
3	22	16	13	11	7.9	6.3	5.3	32	24	19	16	12	9,5	7.9		32	26	22	16	13	11

2 **OMNIA** Pladur® boards **13/15**

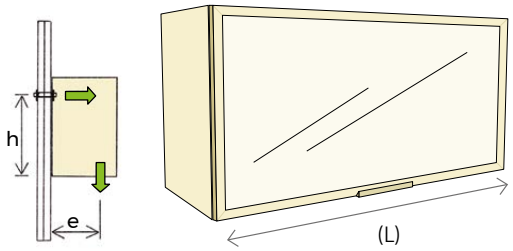
2 **OMNIA** + **N** Pladur® boards **13/15** or **OMNIA** Pladur® board **13/15**

Limitation of liability:
*The maximum loads indicated in this document refer exclusively to those supported by **OMNIA** Pladur® Systems. Compliance with the maximum loads indicated in this document is conditional on the correct choice of anchoring elements and the correct execution of the work. The limitations defined in the technical specifications of the anchoring elements and the installation recommendations defined by the manufacturers of these anchoring elements must be faithfully followed. Likewise, the maximum load limitations of the elements to be anchored and the recommendations for installation and use defined by the manufacturers of the anchoring elements to be anchored must be faithfully followed. In addition to the above, any permanent and/or occasional overloads that may occur during the use of the elements to be anchored must be taken into account in the calculations; for this purpose, it is recommended to previously evaluate the potential overloads that may occur during use.*

CALCULATION METHODE

Let's suppose we want to install a suspended kitchen cupboard, fixing it to a **98/600** Pladur® partition wall, consisting of 1 **N 13** Pladur® panel + 1 **OMNIA** Pladur® panel on each side.

How much weight do I need to carry?

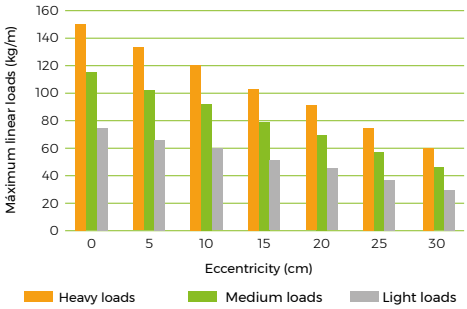


Cabinet data:
Length (L): 120 cm (1,2 meters)
Height: 35 cm (h: 32 cm from the anchorage to the bottom support)
Depth: 30 cm
Fixing points: 2, spaced 100cm (1 m)
Empty cabinet weight: 25 kg
Maximum load allowed by the furniture manufacturer: 35 kg

Checks

Minimum spacing between fixing points: 100 cm > 40 cm ✓
Height (h) from the fixing point to the lower suport point of the cabinet: 32 cm > 15 cm ✓

Is it a light, medium or heavy load?

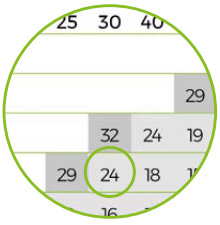


Preliminary considerations:
Total requested load: 25+35 = 60 kg
Linear load: 60 kg/1 m (distance between hangers) Eccentricity:
- If the total weight (cabinet + load) is centered, the center of gravity will be at a distance e = 0,15 m
- If we consider that the weight may be slightly displaced towards the door, we can estimates that the center of gravity is at a distance of approximately **e = 20 cm**.

Checks

Point level load: 60 kg/2 points = 30 kg/point < 50 kg (Maximum load for 1 **N** Pladur® **13** Board+ 1 **OMNIA** Pladur® Board) ✓
For the eccentricity of 20 cm and the maximum load of 60 kg/ml a MEDIUM LOAD is considered ✓

What pull-out load will result for each anchor point?



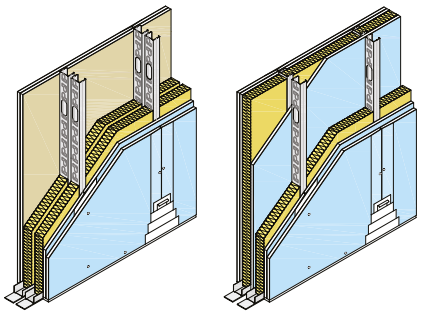
Height (h), from the fixing point to the lower support point of the furniture: 32 cm
We check the table and round down to the next lower point: 32 > 30. We take 30 cm
Anchor points per metre: 2 pcs/m
Pull-out load: 24 kg/point

Which anchorages should we choose?

Finally, we have to choose the right hollow wall plug anchor. They must meet the combined load requirement resulting from the calculated pull-out load and the calculated shear load (24 kg and 30 kg per point, respectively, in this example). It is recommended to consult the manufacturer's specifications.

OMNIA
PLADUR® SYSTEMS

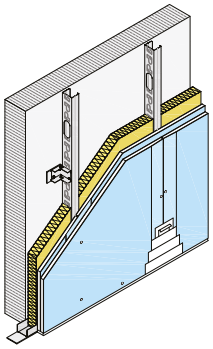
OMNIA Pladur® Systems offer high performance and versatility, as thanks to their improved properties, they provide solutions with excellent acoustic comfort, high surface hardness, high fire protection, moisture resistance and high load-bearing capacity. All in a single panel.



PARTITION WALLS

System consisting of two **OMNIA** Pladur® panels screwed to each side of a double free-standing frame, separated by a minimum of 10mm, to which an intermediate panel can be added. It is perfect for separation between different units of use that need to meet various requirements, such as a fire sector in damp rooms and with greater acoustic comfort and minimum thickness.

Profile	System	Boards	Mass (kg/m²)	Máximum height (m)											
				Lights loads				Médium loads				Heavy loads			
Double frame and single chamber				⌶		⌶⌶		⌶		⌶⌶		⌶		⌶⌶	
				600	400	600	400	600	400	600	400	600	400	600	400
Stud Pladur® **M 48-35**	146 (48-35 + e + 48-35) 2MW	4 x 12.5	59	2.55	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
	156 (48-35 + e + 48-35) 2MW	4 x 15	68	2.55	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
Stud Pladur® **M 48-45 XL**	146 (48-45 + e + 48-45) 2MW	4 x 12.5	59	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
	156 (48-45 + e + 48-45) 2MW	4 x 15	68	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
Stud Pladur® **M 62-45 XL**	174 (62-45 + e + 62-45) 2MW	4 x 12.5	60	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
	184 (62-45 + e + 62-45) 2MW	4 x 15	69	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
Stud Pladur® **M 70-35**	190 (70-35 + e + 70-35) 2MW	4 x 12.5	60	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
	200 (70-35 + e + 70-35) 2MW	4 x 15	69	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
Stud Pladur® **M 70-45 XL**	190 (70-45 + e + 70-45) 2MW	4 x 12.5	60	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
	200 (70-45 + e + 70-45) 2MW	4 x 15	69	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
Stud Pladur® **M 90-45 XL**	230 (90-45 + e + 90-45) 2MW	4 x 12.5	62	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
	240 (90-45 + e + 90-45) 2MW	4 x 15	71	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
Stud Pladur® **M 100-45 XL**	250 (100-45 + e + 100-45) 2MW	4 x 12.5	62	4.05	4.50	4.80	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
	260 (100-45 + e + 100-45) 2MW	4 x 15	71	4.05	4.50	4.80	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
Stud Pladur® **M 125-45 XL**	300 (125-45 + e + 125-45) 2MW	4 x 12.5	64	4.60	5.10	5.50	6.05	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90
	310 (125-45 + e + 125-45) 2MW	4 x 15	73	4.60	5.10	5.50	6.05	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90
Double frame and free standing chamber				⌶		⌶⌶		⌶		⌶⌶		⌶		⌶⌶	
				600	400	600	400	600	400	600	400	600	400	600	400
Stud Pladur® **M 48-35**	158.5 (48-35+12.5 + e + 48-35) 2MW	5 x 12.5	55	2.55	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
	171 (48-35+15 + e + 48-35) 2MW	5 x 15	63	2.55	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
Stud Pladur® **M 48-45 XL**	158.5 (48-45+12.5 + e + 48-45) 2MW	5 x 12.5	55	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
	171 (48-45+15 + e + 48-45) 2MW	5 x 15	63	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
Stud Pladur® **M 62-45 XL**	186.5 (62-45+12.5 + e + 62-45) 2MW	5 x 12.5	57	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
	199 (62-45+15 + e + 62-45) 2MW	5 x 15	64	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
Stud Pladur® **M 70-35**	202.5 (70-35+12.5 + e + 70-35) 2MW	5 x 12.5	57	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
	215 (70-35+15 + e + 70-35) 2MW	5 x 15	64	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
Stud Pladur® **M 70-45 XL**	202.5 (70-45+12.5 + e + 70-45) 2MW	5 x 12.5	57	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
	215 (70-45+15 + e + 70-45) 2MW	5 x 15	64	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
Stud Pladur® **M 90-45 XL**	242.5 (90+12.5 + e + 90) 2MW	5 x 12.5	59	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
	255 (90+15 + e + 90) 2MW	5 x 15	66	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
Stud Pladur® **M 100-45 XL**	262.5 (100-45+12.5 + e + 100-45) 2MW	5 x 12.5	59	4.05	4.50	4.80	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
	275 (100-45+12.5 + e + 100-45) 2MW	5 x 15	66	4.05	4.50	4.80	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
Stud Pladur® **M 125-45 XL**	312.5 (125-45+12.5 + e + 125-45) 2MW	5 x 12.5	61	4.60	5.10	5.50	6.05	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90
	325 (125-45+12.5 + e + 125-45) 2MW	5 x 15	68	4.60	5.10	5.50	6.05	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90



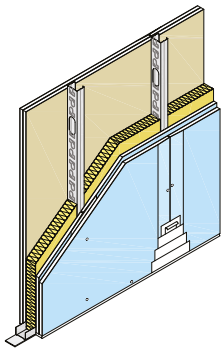
SELF-SUPORTING WALL LINING

System formed by a frame of Pladur® stud and track and uprights, to which one or more **OMNIA** Pladur® panels are screwed. Its application is suitable for the interior wall linings. It provides high hygrothermal and acoustic comfort, increases fire protection, improves mechanical strength and offers optimal resistance to humidity. Ideal for demanding environments.

Profile	System	Boards	Mass (kg/m²)	Máximum height (m)											
				Lights loads				Médium loads				Heavy loads			
				⌋		⌋⌊		⌋		⌋⌊		⌋		⌋⌊	
				600	400	600	400	600	400	600	400	600	400	600	400
Stud Pladur® **M 48-35**	63 (48-35) MW	[48+1x15]	21	2.15	2.35	2.55	2.80	1.80	2.10	2.30	2.60	-	1.60	1.95	2.35
	73 (48-35) MW	[48+2x12.5]	31	2.55	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
	78 (48-35) MW	[48+2x15]	36	2.55	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
	93 (48-35) MW	[48+3x15]	52	2.85	3.15	3.40	3.75	2.65	2.95	3.25	3.60	2.40	2.75	3.05	3.45
Stud Pladur® **M 48-45 XL**	63 (48-45) MW	[48+1x15]	21	2.25	2.50	2.65	2.95	1.95	2.25	2.45	2.75	-	1.85	2.15	2.55
	73 (48-45) MW	[48+2x12.5]	31	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
	78 (48-45) MW	[48+2x15]	36	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
	93 (48-45) MW	[48+3x15]	52	3.00	3.30	3.55	3.95	2.80	3.15	3.40	3.80	2.60	2.95	3.25	3.65
Stud Pladur® **M 62-45 XL**	77 (62-45) MW	[62+1x15]	22	2.60	2.85	3.10	3.40	2.35	2.70	2.90	3.25	2.05	2.45	2.70	3.10
	87 (62-45) MW	[62+2x12.5]	32	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
	92 (62-45) MW	[62+2x15]	37	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
	107 (62-45) MW	[62+3x15]	53	3.45	3.85	4.10	4.55	3.30	3.70	4.00	4.45	3.15	3.55	3.85	4.30
Stud Pladur® **M 70-35**	85 (70-35) MW	[70+1x15]	22	2.70	3.00	3.20	3.55	2.45	2.80	3.00	3.40	2.15	2.55	2.80	3.20
	95 (70-35) MW	[70+2x12.5]	32	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
	100 (70-35) MW	[70+2x15]	37	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
	115 (70-35) MW	[70+3x15]	53	3.60	3.95	4.25	4.70	3.45	3.85	4.15	4.60	3.25	3.70	4.00	4.50
Stud Pladur® **M 70-45 XL**	85 (70-45) MW	[70+1x15]	22	2.80	3.10	3.35	3.70	2.60	2.95	3.20	3.55	2.35	2.75	3.00	3.40
	95 (70-45) MW	[70+2x12.5]	32	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
	100 (70-45) MW	[70+2x15]	37	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
	115 (70-45) MW	[70+3x15]	53	3.75	4.15	4.45	4.95	3.60	4.05	4.35	4.85	3.45	3.90	4.25	4.75
Stud Pladur® **M 90-45 XL**	115 (90-45) MW	[90+2x12.5]	33	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
	120 (90-45) MW	[90+2x15]	38	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
	135 (90-45) MW	[90+3x15]	54	4.30	4.75	5.10	5.65	4.15	4.65	5.00	5.55	4.05	4.50	4.90	5.45
Stud Pladur® **M 100-45 XL**	125 (100-45) MW	[100+2x12.5]	33	4.05	4.50	4.80	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
	130 (100-45) MW	[100+2x15]	38	4.05	4.50	4.80	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
	145 (100-45) MW	[100+3x15]	54	4.55	5.05	5.40	6.00	4.45	4.90	5.30	5.90	4.30	4.80	5.20	5.80
Stud Pladur® **M 125-45 XL**	150 (125-45) MW	[125+2x12.5]	35	4.60	5.10	5.50	6.05	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90
	155 (125-45) MW	[125+2x15]	40	4.60	5.10	5.50	6.05	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90
	170 (125-45) MW	[125+3x15]	56	5.15	5.70	6.15	6.80	5.10	5.65	6.05	6.75	5.00	5.55	6.00	6.65

Light loads: up to 75 kg/m according to UNE 102043 standard
Medium loads: up to 112,5 kg/m as per report E-113801-001
Heavy loads: up to 150 kg/m as per report E-113801-001

* At least the outer panel must be **OMNIA** Pladur® Board. The inner panels can be other Pladur® types.



DISTRIBUTION PARTITIONS

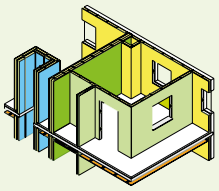
This system, consisting of a frame structure of Pladur® profiles, to which one or more **OMNIA** Pladur® panels are screwed on each side, is suitable for interior partitioning of rooms that require optimum acoustic insulation, greater durability, fire protection, resistance to humidity and the capacity to withstand greater loads.

Profile	System	Boards	Mass (kg/m²)	Máximum height (m)											
				Lights loads				Médium loads				Heavy loads			
				⌐		⌐⌐		⌐		⌐⌐		⌐		⌐⌐	
				600	400	600	400	600	400	600	400	600	400	600	400
Stud Pladur® **M 48-35**	78 (48-35) MW	[1x15+48+1x15]	35	2.60	2.80	3.05	3.35	2.30	2.60	2.85	3.20	1.95	2.35	2.65	3.00
	98 (48-35) MW	[2x12.5+48+2x12.5]	57	3.05	3.40	3.65	4.00	2.90	3.25	3.50	3.90	2.65	3.05	3.35	3.75
	108 (48-35) MW	[2x15+48+2x15]	66	3.05	3.40	3.65	4.00	2.90	3.25	3.50	3.90	2.65	3.05	3.35	3.75
Stud Pladur® **M 48-45 XL**	78 (48-45) MW	[1x15+48+1x15]	35	2.70	2.95	3.20	3.50	2.45	2.80	3.00	3.35	2.15	2.55	2.80	3.20
	98 (48-45) MW	[2x12.5+48+2x12.5]	57	3.20	3.55	3.80	4.25	3.05	3.40	3.70	4.10	2.85	3.25	3.55	3.95
	108 (48-45) MW	[2x15+48+2x15]	66	3.20	3.55	3.80	4.25	3.05	3.40	3.70	4.10	2.85	3.25	3.55	3.95
Stud Pladur® **M 62-45 XL**	92 (62-45) MW	[1x15+62+1x15]	35	3.10	3.40	3.70	4.05	2.90	3.25	3.55	3.95	2.70	3.10	3.35	3.80
	112 (62-45) MW	[2x12.5+62+2x12.5]	57	3.70	4.10	4.40	4.90	3.55	3.95	4.30	4.75	3.40	3.85	4.15	4.65
	122 (62-45) MW	[2x15+62+2x15]	66	3.70	4.10	4.40	4.90	3.55	3.95	4.30	4.75	3.40	3.85	4.15	4.65
Stud Pladur® **M 70-35**	100 (70-35) MW	[1x15+70+1x15]	35	3.20	3.55	3.80	4.20	3.05	3.40	3.65	4.10	2.85	3.25	3.50	3.95
	120 (70-35) MW	[2x12.5+70+2x12.5]	57	3.85	4.25	4.55	5.05	3.70	4.15	4.45	4.95	3.55	4.00	4.35	4.85
	130 (70-35) MW	[2x15+70+2x15]	66	3.85	4.25	4.55	5.05	3.70	4.15	4.45	4.95	3.55	4.00	4.35	4.85
Stud Pladur® **M 70-45 XL**	100 (70-45) MW	[1x15+70+1x15]	35	3.35	3.70	4.00	4.40	3.20	3.55	3.85	4.30	3.00	3.40	3.70	4.15
	120 (70-45) MW	[2x12.5+70+2x12.5]	57	4.00	4.45	4.80	5.30	3.90	4.30	4.70	5.20	3.75	4.20	4.55	5.10
	130 (70-45) MW	[2x15+70+2x15]	66	4.00	4.45	4.80	5.30	3.90	4.30	4.70	5.20	3.75	4.20	4.55	5.10
Stud Pladur® **M 90-45 XL**	120 (90-45) MW	[1x15+90+1x15]	37	3.80	4.25	4.55	5.05	3.70	4.10	4.45	4.90	3.55	3.95	4.30	4.80
	140 (90-45) MW	[2x12.5+90+2x12.5]	58	4.60	5.05	5.45	6.05	4.45	4.95	5.35	5.95	4.35	4.85	5.25	5.85
	150 (90-45) MW	[2x15+90+2x15]	67	4.60	5.05	5.45	6.05	4.45	4.95	5.35	5.95	4.35	4.85	5.25	5.85
Stud Pladur® **M 100-45 XL**	130 (100-45) MW	[1x15+100+1x15]	37	4.05	4.50	4.85	5.35	3.95	4.40	4.70	5.25	3.80	4.25	4.60	5.15
	150 (100-45) MW	[2x12.5+100+2x12.5]	58	4.85	5.40	5.80	6.40	4.75	5.30	5.70	6.30	4.65	5.20	5.60	6.25
	160 (100-45) MW	[2x15+100+2x15]	67	4.85	5.40	5.80	6.40	4.75	5.30	5.70	6.30	4.65	5.20	5.60	6.25
Stud Pladur® **M 125-45 XL**	155 (125-45) MW	[1x15+125+1x15]	38	4.60	5.10	5.50	6.10	4.50	5.00	5.40	6.00	4.40	4.90	5.30	5.90
	175 (125-45) MW	[2x12.5+125+2x12.5]	59	5.55	6.15	6.60	7.30	5.45	6.05	6.50	7.20	5.35	5.95	6.45	7.15
	185 (125-45) MW	[2x15+125+2x15]	68	5.55	6.15	6.60	7.30	5.45	6.05	6.50	7.20	5.35	5.95	6.45	7.15

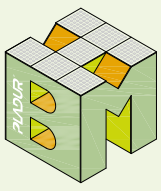
Light loads: up to 75 kg/m according to UNE 102043 standard
Medium loads: up to 112,5 kg/m as per report E-113801-001
Heavy loads: up to 150 kg/m as per report E-113801-001

If you would like to know more technical details about the **OMNIA** Pladur® systems, please refer to our tools.

Pladur® Systems Guide



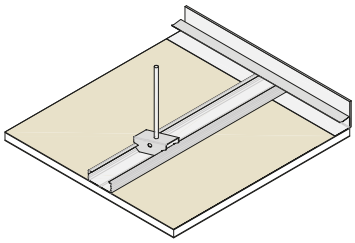
Pladur® System Selector



BIM Object Library

* At least the outer panel must be **OMNIA** Pladur® Board. The inner panels can be other Pladur® types.

CEILINGS

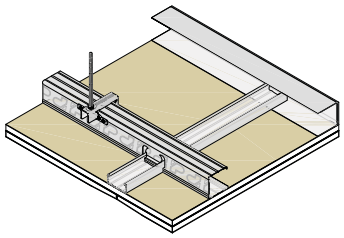


PLADUR® T45 CEILINGS

This system consists of one or more **OMNIA** Pladur® panels screwed to a **T45** Pladur® profile structure, and is a perfect solution for cladding the underside of the slab, while providing fire protection and improving the acoustic insulation of the rooms.

Profile	System	Surface mass (kg/m²)	Distance between hangers (m)			Acoustic insulation					Fire resistance
			Frame distance (mm)			Slab surface mass (kg/m²)	Airborne noise (dBA)		Impact noise (dB)		
			400	500	600		Increase ceiling ΔR_A	Slab + Ceiling R_A	Noise reduction by ceiling ΔL_W	Noise reduction slab + Ceiling $L_{n,w}$	
T-45 Pladur® profile	T-45 / 1 x 15 MW	19	0.6	-	-	350 500	12 9	65 67	8 8	70 70	S/E
	T-45 / 2 x 12,5 MW	22	0.9	0.9	0.8	350 500	15 13	68 71	8 8	70 70	EI 30*
	T-45 / 2 x 15 MW	34	0.6	-	-	350 500	15 13	68 71	8 8	70 70	EI 60*
	T-45 / 3 x 15 MW	49	0.8	0.8	-	350 500	7 7	60 65	8 8	70 70	EI 90*

* Fire resistance tests conducted without mineral wool. System valid for fire classification with 400 and 500 mm on axes.



PLADUR® NEO CEILINGS

This innovative system consists of a double structure of primary and secondary profiles at the same level, to which one or more **OMNIA** Pladur® panels are attached. Thanks to its optimised design, it requires fewer hangers, allowing for quicker and easier installation, as well as improving acoustic insulation. It is a perfect solution for cladding the underside of the slab, providing fire protection and further improving the acoustic comfort of rooms.

Profile	System	Surface mass (kg/m²)	Distance between attachment (m)	Main frame distance (m)	Acoustic insulation					Fire resistance
			Secondary frame distance (mm)		Slab surface mass (kg/m²)	Airborne noise (dBA)		Impact noise (dB)		
			450	450		Increase ceiling ΔR_A	Slab + Ceiling R_A	Noise reduction by ceiling ΔL_W	Noise reduction slab + Ceiling $L_{n,w}$	
NEO P-48 + NEO S-1.000 Pladur® profile	NEO / 1 x 12.5 OMNIA MW	14.3	1.65	1.00	375	16	72.5	16	61	S/E
	NEO / 1 x 15 OMNIA MW	16.8	1.60	1.00	375	15	72	15	62	S/E
	NEO / 2 x 15 OMNIA LV	31.8	1.40	1.00	375	16	73.6	19	58	EI 60

* In areas of medium humidity, **OMNIA** Pladur® panels with secondary structure modulation must be installed every **400 mm**.

In systems with fire resistance requirements, the execution conditions according to the test certificate must be observed. Tests carried out with glass wool with thermal resistance **≤ 1.3 m²K/W** and surface mass **≤ 0.83 kg/m²** or without wool, for more information see classification report.

Premises with wind load less than or equal to **10 kg/m²**. Permitted usage load **1.2 kg/m²** and mineral wool up to **5 kg/m** for a primary modulation of **1.0 m**.

Acoustic tests carried out with 150 mm reinforced concrete slab and 375 kg/m², 46 mm thick mineral wool and 18 kg/m³ and 150 mm plenum.

The fixing of the hangers shall withstand a minimum permissible tensile load of **85 kg** (declared by the manufacturer). While the perimeter profile fixings shall withstand a minimum permissible flush load of **15 kg**.

The fixing of the Pladur® **NEO CP-48** perimeter profile to the substrate shall be arranged every **600 mm**. In systems with fire resistance requirements, this distance shall be reduced to **300 mm**.

PLADUR®
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IQNET RECOGNIZED CERTIFICATION

AENOR GESTIÓN DE LA CALIDAD ISO 9001
ER-735/1997

AENOR ENVIRONMENTAL MANAGEMENT ISO 14001
GA-2011/0624