

PLADUR[®]
by etex

PLADUR[®] SOLIDTEX 13x1200 BA C E



SOLIDTEX

Pladur[®] board

EXTREME RESISTANCE



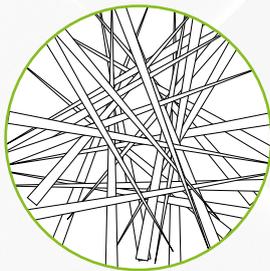
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UNIQUE PATENTED TECHNOLOGY

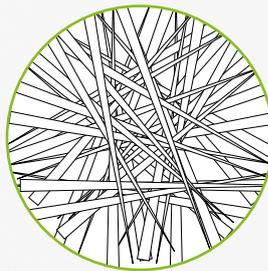
HIGH CRYSTALLISATION DENSITY BOARD

HDC technology is a great step forward in very high density laminated plasterboard, with **innovative formulation and exclusive mixing technology.**

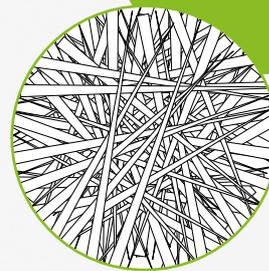
The result is a setting process that allows production of a new type of core containing between 30% and 50% more pure plaster per cubic metre, obtaining a board of **solid plaster, with rock-like Firmness and harshness and loading capacity.**



STANDARD



HIGH DENSITY



VERY HIGH DENSITY

✓
30%-50%
more plaster/m³



PLADUR® SOLIDTEX 13x1200 BA C€

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SOLIDTEX

Pladur® board

**EXCEPTIONAL
BOARD**

SOLIDTEX Pladur® board

DISCOVER EXCEPTIONAL SOLIDITY AND MECHANICAL RESISTANCE!

SOLIDTEX Pladur® is a high performance laminated plasterboard that is extremely hard, resistant and load bearing.

BOARD TYPE (TO EN 520)

- D - Controlled density
- E - Exterior use
(temporary exposure)
- F - Cohesion of improved core
at high temperatures
- R - Improved resistance
- H1 - Water repellent

STANDARD LENGTHS

2,0 / 2,6 / 3,0 m

DENSITY

1.200 kg/m³

FIRE RESISTANCE

A2 s1, d0



EDGES

- Tapered Edge TE
- Square Edge SE

THICKNESS

12,5 mm

WIDTH

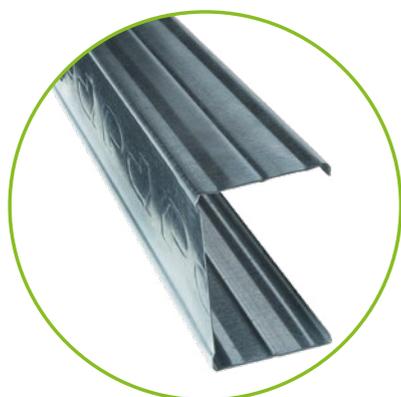
1200 mm

IMPROVED BENDING STRENGTH

- Lengthwise ≥ 750 N
- Sideways ≥ 300 N

SURFACE HARDNESS

Track $\varnothing \leq 15$ mm



SAME FRAMING

SOLIDTEX Pladur® boards may be installed with any of the profile in the Pladur® range, **not requiring specific frames.**



SAME JOINT TREATMENT

SOLIDTEX Pladur® board is **compatible with the full range of Pladur® filling compounds.**

Joints must be treated with Pladur® **joint tape** to make sure the system behaves correctly, as certified with the QB quality mark.



PM 3.9 x 38
PM 3.9 x 26

SOLIDTEX SCREW PLADUR®

Due to the high density of the board, **SOLIDTEX** Pladur® systems require specially developed screws to facilitate the attachment process.

Pladur® **SOLIDTEX** screws are available in two lengths, to suit the wall thickness.



LOOKING FOR HIGH PERFORMANCE?

ROBUST

SOLIDTEX Pladur® Systems have:

- **Great surface hardness**, protecting the walls from rubbing and scratches, preserving their proper state.
- **High impact resistance**, perfect for the requisites of high traffic areas with the risk of blows, as well as common areas or corridors in hospitals, schools, commercial premises, etc.
- **Greater anti-burglary and intrusion safety**, reaching level RC2, according to tests carried out with static and dynamic loading, and manual approach, pursuant to standards EN 1627:2011, EN 1628:2011 and EN 1630:2011.



WATER RESISTANT

SOLIDTEX Pladur® board is a type H1 water resistant board to EN 520, ideal for **dry and wet areas, all in the same board.**

Moreover, due to its mechanical stiffness, it reduces wall deformation, making it an excellent solution for large format linings.



THINK SOLIDTEX

HIGH LOAD CAPACITY

SOLIDTEX Pladur® systems provide **a high loading capacity**, both in **level as well as eccentric loads**.



Use of **SOLIDTEX** Pladur® boards increases the hanging capacity per point:

- > **Up to 64 kg**, with a single **SOLIDTEX** board Pladur®
- > **Up to 95 kg**, with two **SOLIDTEX** board Pladur®

SOLIDTEX board Pladur® provide strength to the system, minimising partition deformation caused by eccentric loads. This feature makes **SOLIDTEX** Pladur® systems the perfect solution to hang decorative elements or furniture without the need to install additional reinforcement*.

*See information on maximum loads on page 9.



Based on the test results in report E-088220-001, **SOLIDTEX** Pladur® systems **withstands shearing, pulling out and combined loads higher than those stated in standard UNE 102043**.

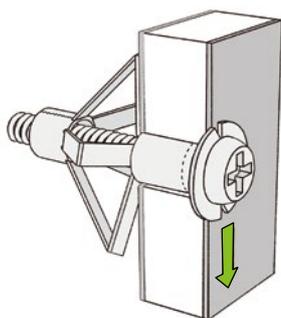
WITH ALL THE ADVANTAGES OF PLADUR®

- > Easy, quick, clean, dry installation
- > Great acoustic and thermal insulation, and good fire resistance
- > Light solution, without excess burden on the structure
- > Flexible system, absorbs deformations and movements, avoiding cracks



LARGE BEARING CAPACITY

SHEAR LOADS

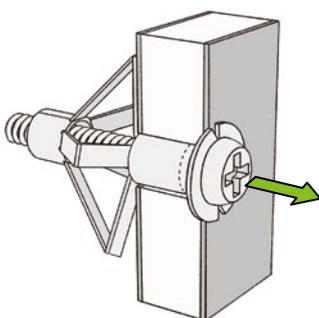


These are the loads of objects that do not stick out excessively and therefore only exert a generally vertical downward force. These loads are applied by objects that we hang and that barely extend from the surface, such as a picture frame.

The following table shows the maximum shear loads for different configurations of Pladur® **SOLIDTEX** linings.

Wall composition	Maximum load per point (kg)
1 Pladur® SOLIDTEX 13 board	64
1 Pladur® N 13 board + 1 Pladur® SOLIDTEX 13 board	64
2 Pladur® SOLIDTEX 13 boards	95

PULL OUT LOADS



They are loads perpendicular to the surface of the wall and applied from the inside out. Like those exerted by a wall plug in a wall used to anchor a piece of furniture and prevent it from tipping over.

The following table shows the maximum pull out loads for different configurations of Pladur® **SOLIDTEX** linings.

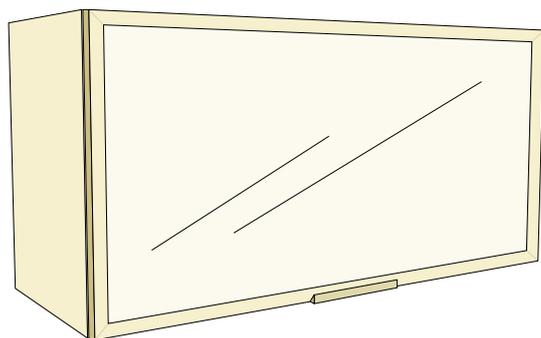
Wall composition	Maximum load per point (kg)
1 Pladur® SOLIDTEX 13 board	30
1 Pladur® N 13 board + 1 Pladur® SOLIDTEX 13 board	30
2 Pladur® SOLIDTEX 13 boards	40

The minimum separation between each fixing point must be equal to or greater than 40 cm pursuant to UNE standard 102043:2013.

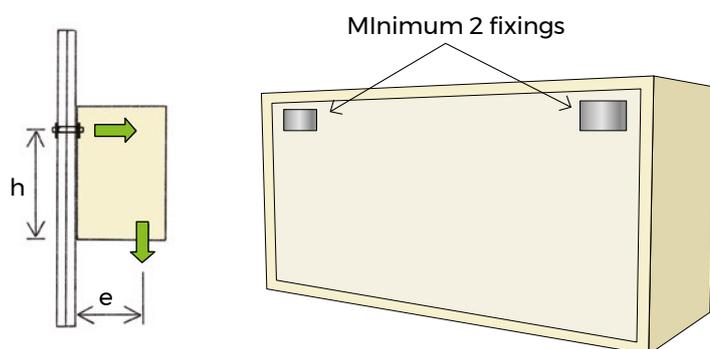
Data obtained by applying a safety coefficient, in accordance with test report E-088220-001. The tests were carried out using metal anchors for hollow materials of the 'umbrella' type with a diameter of 12 mm and M6 metric screws.

The anchors used must be specifically designed for hollow materials, with a length appropriate to the thickness of the wall, and must ensure a maximum admissible load equal to or greater than that indicated in the tables. The anchors manufacturer must certify this load per point on the plasterboard support.

CONTINUOUS ECCENTRIC LOADS



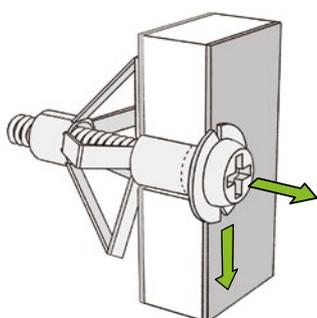
These are loads that **jut out considerably from the wall** and therefore their centre of gravity has been substantially displaced from the anchoring plane (**e**), exerting a lever force. This can be the load of a suspended kitchen cabinet.



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 must be **at least 2**.
- **the minimum distance** between fixings must be equal to or greater than **40 cm horizontally** (according to UNE standard 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)

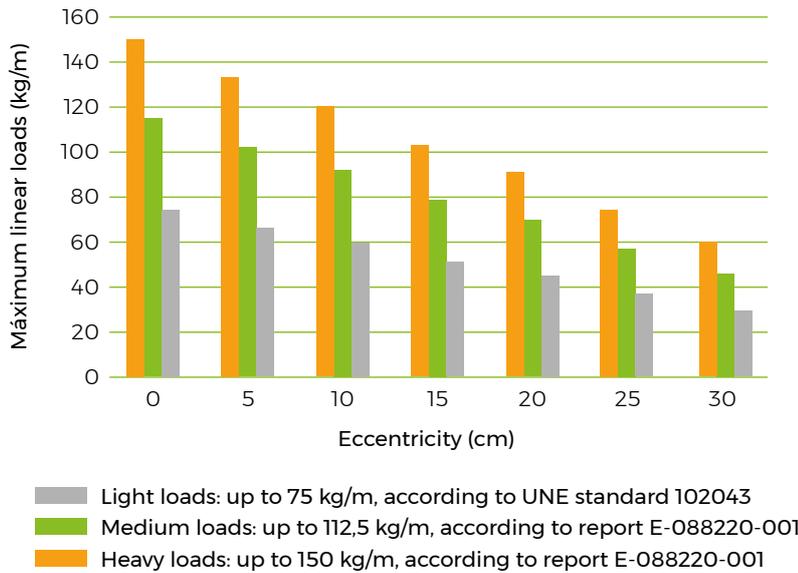


Eccentric loads cause both shear and pull out loads.

Based on the results of tests recorded in report E-088220-001, linings with Pladur® **SOLIDTEX** board **support shear, pull out, and combined loads higher*** than those derived from the **UNE standard 102043**.

*According to the conditions established in the technical study E-088220-001, including the reduction of the maximum height of the partition or lining.

CONTINIUS LIGHT, MEDIUM AND HEAVY LOADS



Plaster board partitions walls and wall linings withstand continuous light loads, up to 75 kg/m, according to UNE standard 102043.

Pladur® **SOLIDTEX** partitions and wall linings allow the use of **higher loads, medium and heavy loads**, in addition to light loads, according to the Tecnalía technical study E-088220-001.

Depending on the type of load (light, medium, or heavy), the most suitable system must be selected (Pladur® **SOLIDTEX** partitions or linings), and based on this, its maximum height must be determined (see tables on page 12).

The following tables indicate the pull out loads per point for each load type, based on the anchor points per linear meter and the height (h), measured from the fixation point to the lower support point of the load.

Fixing points/m	Light loads							Medium loads							Heavy loads						
	Height of the support element							Height of the support element							Height of the support element						
	15	20	25	30	40	50	60	15	20	25	30	40	50	60	15	20	25	30	40	50	60
0.8					32	25	21						38	31.7							
1			38	32	24	19	16					35.6	28.5	23.8						38	31.7
1.5		32	25	21	16	13	11			38	31.7	23.8	19	15.8					31.7	25.3	21.1
2	32	24	19	16	12	9.5	7.9		35.6	28.5	23.8	17.8	14.3	11.9			38	31.7	23.8	19	15.8
2.5	25	19	15	13	9.5	7.6	6.3	38	28.5	22.8	19	14.3	11.4	9.5		38	30.4	25.3	19	15.2	12.7

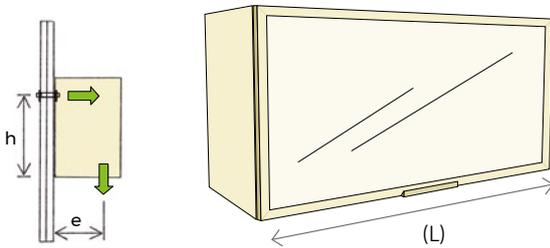
- 2 Pladur® **SOLIDTEX 13** boards
- 2 Pladur® **SOLIDTEX 13** + **N 13** boards or 1 Pladur® **SOLIDTEX 13** board

Limitation of liability:
 The maximum loads indicated in this document refer exclusively to those supported by Pladur® **SOLIDTEX** systems. Compliance with the maximum loads indicated in this document depends on good choice of fixing elements and good work execution. The limitations defined in the technical specifications for the fixing elements and the installation recommendations defined by the fixing element manufacturers must be followed exactly. Furthermore, the maximum load limitations for fixed element and the installation and use recommendations defined by the fixed element manufacturers should also be followed exactly. In addition to the above, the calculations for any permanent and/or occasional excess load that may arise in the use of the fixed elements should also be taken into account. It is therefore recommendable to conduct a prior assessment of potential excess loads that may occur during use.

CALCULATION METHODE

You wish to install a kitchen cupboard on a Pladur® **98/600** partition with a 1 Pladur® **N** board + 1 Pladur® **SOLIDTEX** board for each side.

How high a load do you want?



Cupboard details:

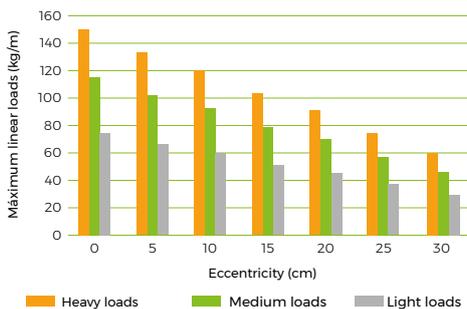
- Length (L): 120 cm (1.2 metres)
- Height: 35 cm (32 cm lower support screw)
- Depth: 30 cm
- Two fixing points 100 cm (1m) apart. Cupboard empty weight 25 kg
- Load permitted by the cupboard manufacturer 35 kg

Checks

- Minimal distance between fixing points: 100 cm > 40 cm ✓
- Height of the supported edge of the cupboard: 32 cm > 15 cm ✓



Is it a light, medium or heavy load?



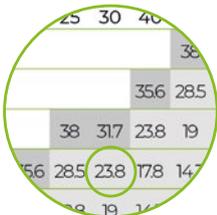
- Total load requested: 25+35 = 60 kg
- Linear load = 60 kg/1 m (distance between hangers) = 60 kg/m
- Eccentricity:
 - If the total weight (cupboard + load) is centred, the centre of gravity is e = 0.15 m
 - Considering that the weight might be near the door, the centre of gravity is at 'e' greater than 0.15 m =>
- Take e = 0.20 m**

Checks

- Point shear load: 60 kg/2 points = 30 kg/point < 64 kg (Maximum loads for 1 Pladur® **N** board + 1 Pladur® **SOLIDTEX** board) ✓
- For eccentricity, 20 cm and 60 kg/ml is a MEDIUM load ✓



What is the point tear-off load?



- Height of the support element (h) = 32 cm as lower support screw
- As 32 > 30, take 30 cm
- No. of fixing points per metre = 2
- Pull out load 23.8 kg/point



Will the wall plugs bear this load?

Finally, you need to check the strength of the chosen wall plugs. The wall plugs must meet the combined load requirement, as the combined effect of the calculated pull out load (23.8 kg per point in this example) and the calculated shear load (30 kg per point in this example).

SOLIDTEX

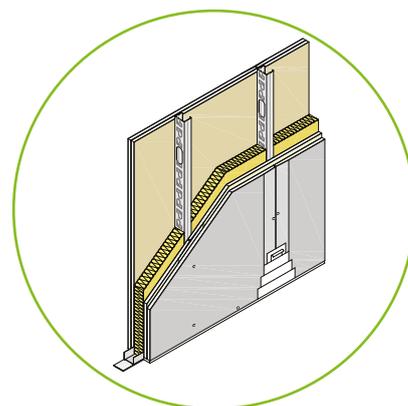
Pladur® systems

THE TOUGHEST

The maximum loads established in the Tecnalia technical report ensure compliance with standard UNE 102043, regarding maximum deformation of partitions and Wall linings, and the torque required from the structure. The increase in load-bearing capacity of **SOLIDTEX** Pladur® partitions and Wall lining has been verified by tests and the aforementioned technical study, in which the maximum heights are defined in relation to the type of load.

PARTITIONS

SOLIDTEX Pladur® partitions are ideal to perform interior partitioning of homes, garages, hospitals, commercial premises or schools, as their high resistance increases their durability and reduces wall maintenance.

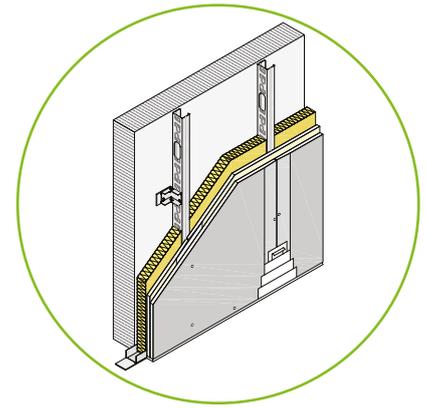


MAXIMUM HEIGHT

Systems	Boards	Surface mass (kg/m ²)	MAXIMUM HEIGHT												Thermal resistance (m ² k/w)	Acoustic insulation	
			LIGHT LOADS				MEDIUM LOADS				HEAVY LOADS					R _s (dB _a)	R _w (c,c _{tr}) (dB)
			600	400	600	400	600	400	600	400	600	400	600	400			
98 (48-35) MW	(2x12.5+48-35+2x12.5)	69	3.05	3.4	3.65	4	2.9	3.25	3.5	3.9	2.65	3.05	3.35	3.75	1.71	52.5	51 (0,-5)
98 (48-45) MW	(2x12.5+48-45+2x12.5)	69	3.2	3.55	3.8	4.25	3.05	3.4	3.7	4.1	2.85	3.25	3.55	3.95	1.71	52.5	51 (0,-5)
120 (70-35) MW	(2x12.5+70-35+2x12.5)	69	3.85	4.25	4.55	5.05	3.7	4.15	4.45	4.95	3.55	4	4.35	4.85	2.26	53.5	55 (-1,-6)
120 (70-45) MW	(2x12.5+70-45+2x12.5)	69	4	4.45	4.8	5.3	3.9	4.3	4.7	5.2	3.75	4.2	4.55	5.1	2.26	53.5	55 (-1,-6)
140 (90-45) MW	(2x12.5+90-45+2x12.5)	70	4.6	5.05	5.45	6.05	4.45	4.95	5.35	5.95	4.35	4.85	5.25	5.85	2.81	54	56 (-3,-8)

LINING PANELS

SOLIDTEX Pladur® interior wall lining provides improved acoustic/thermal insulation with a highly resistant, strong surface.



DISTANCE BETWEEN BRACING

Systems	Boards	Surface mass (kg/m²)	LIGHT LOADS		MEDIUM LOADS		HEAVY LOADS		Acoustic insulation (dBa)*									
			⌋	⌋⌋	⌋	⌋⌋	⌋	⌋⌋	Δr _a	Δr _{tr}	R _a	R _{a, tr}						
			600	400	600	400	600	400	600	400	600	400	600	400				
60.5 (48-35) MW	(48-35+1x12.5)	19	2.15	2.35	2.55	2.8	1.8	2.1	2.3	2.6	-	1.6	1.95	2.35	15	11	53	47
73 (48-35) MW	(48-35+2x12.5)	37	2.55	2.8	3.05	3.35	2.3	2.6	2.85	3.2	1.95	2.35	2.65	3	19	17	57	53
73 (48-45) MW	(48-45+2x12.5)	37	2.7	2.95	3.2	3.5	2.45	2.8	3	3.35	2.15	2.55	2.8	3.2	19	17	57	53
95 (70-35) MW	(70-35+2x12.5)	38	3.2	3.55	3.8	4.2	3.05	3.4	3.65	4.1	2.85	3.25	3.5	3.95	19	19	57	55
95 (70-45) MW	(70-45+2x12.5)	38	3.35	3.7	4	4.4	3.2	3.55	3.85	4.3	3	3.4	3.7	4.15	19	19	57	55
115 (90-45) MW	(90-45+2x12.5)	39	3.8	4.25	4.55	5.05	3.7	4.1	4.45	4.9	3.55	3.95	4.3	4.8	20	19	58	55

*Base wall with a surface mass 100 kg/m²

What should the maximum height of your partition or lining be?

MEDIUM LOADS	
⌋	⌋⌋
600	400
3.65	4
3.8	4.25
3.95	3.7

For the partition in the example, 98 (48-35) with a single stud at 600 mm, with a medium load (60 kg cupboard with 30 cm eccentricity) the maximum height would be 2.90 m.

98/600 Pladur® partition with 2 **SOLIDTEX** Pladur® boards 12.5-mm boards with medium loads => Maximum height = 2.90 m.



ONE, TWO, THREE... AN EASY INSTALLATION

SOLIDTEX Pladur® board is installed like any other **Pladur**® laminated plasterboard system to standard UNE 102043:2013.

We recommend that **SOLIDTEX** Pladur® boards always be handled by two workers.

CUTTING



SOLIDTEX Pladur® board may be cut with a cutter knife.

1. Cut the top cardboard.
2. Give a sharp blow to the surface of the board to break it and be able to cut the cellulose on the opposite side.

It may also be cut by hand or electric saw*.

*Use of protection masks is recommended while performing the work.

SCREW ATTACHMENT



Screw on the **SOLIDTEX** Pladur® board using **SOLIDTEX** Pladur® screws according to the thickness of the board(s).

SOLIDTEX Pladur® board is fixed with screws as follows:

1. Slow screwdriving, so the screw extracts the drilling mineral until reaching the profile.



2. Once it touches the profile, slight pressure is applied to finish the drilling process.

JOINT TREATMENT



Fill the joint with Pladur® joint compound and then fit Pladur® reverse face tape on the compound and center it. Remove the excess compound pressing lightly with a spatula and avoiding leaving air bubbles and lumps under the tape. Leave to dry out fully and apply the necessary coats of compound according to the standard of finish required.

Apply the necessary coats of joint compound to the **SOLIDTEX** Pladur® screw heads until they are level with the rest of the surface.

If you want to achieve Q4 maximum finish level, you must skim the whole surface with **PERFECT** Pladur® finishing compound.



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This document is exclusively for orientation and refers to installation and use of Pladur® materials pursuant to the technical specifications it contains. Any use or installation of Pladur® materials that does not comply with the parameters recorded in this document must previously be consulted with the Technical Department.

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