LA DURA
Strength built-in by design
A strong, dense plasterboard
Featured Project:
InterContinental London – The O2, Greenwich, London
Located next to the O2 Arena, the new £121m hotel is part of the development of a 7.6 acre site on Greenwich Peninsula. The 5-star hotel is now operated by InterContinental Hotel Group and features Europe’s largest column free ballroom.
The massive 3012 sqm of space can hold up to 3000 people.
"We replaced a double layer of board with a single layer of LaDura. It has superior impact and sound insulation properties which achieved all of the performance criteria we needed."
Stuart Clark, Design Manager, Balfour Beatty.

PRODUCT OVERVIEW

If you have been tasked with creating a partition which needs to withstand more than average wear and tear, you might have turned to a gypsum fibreboard, traditional concrete blockwork or even multiple layers of plasterboard.

Your choice is now much easier. LaDura – from the range of Siniat performance boards – can meet the highest duty rating (‘Severe’) from a convenient single layer 12.5mm system.

By adding wood particles to a high density gypsum core, our development teams have created a strong and sustainable lightweight plasterboard, that can meet the regulations for fire, acoustic, moisture and impact performance.

LaDura is easy to cut by simply scoring and snapping and can eliminate the need for pattressing further simplifying installation.

Sector: Hotel
Project value: £121m
Designer: Grove Developments
Architect: RTKL
Contractor: Balfour Beatty
Sub-contractor: Errigal Contracts
Siniat innovations: LaDura
Finished: January 2016
DESIGN BENEFITS

Superior strength provides high impact resistance

LaDura is a lighter alternative to gypsum fibreboard where extra durability is required. Ideally suited for sports halls, corridors, hospital wards and stairwells.

We have added wood particles to plasterboard to reinforce the gypsum core, strengthening the board, giving greater impact and pull out resistance but importantly having minimal impact on weight.

LaDura has excellent fire, sound, impact and moisture performance, allowing the specification of just one board type per project.

It is particularly suitable and cost-effective for:

- Schools
- Hospitals
- Hotels
- Student accommodation
- Multi-residential
- Retail environments
- Offices
Choosing LaDura is useful for:

- Creating partitions for busy corridors and internal walls
- Delivering a space able to withstand heavy wear and tear
- Internal walls which need to accommodate heavy hung loads.
DESIGN BENEFITS

All the performance you need in one board

Simplifying your partition design is easy with LaDura. LaDura performs well across all performance requirements, from fire and sound insulation to excellent moisture resistance. Plus a severe duty rating, in just a single layer system.

“There are 1,367 bedrooms in this project. Rooms within close proximity of each other need good sound proofing. For students with a busy study and social schedule, getting the acoustics right between the bedrooms was a key consideration. LaDura offered high levels of sound insulation, plus it had the added benefit of being durable, so will stand up to heavy wear and tear.”

Clayre Massey, Sheppard Robson
University of Salford Project.
With additional acoustic performance

A repeat booking for a hotel or being able to study for an exam in your student accommodation is dependent on quiet surroundings. The dense LaDura board offers excellent sound insulation of some 50Rw dB from a single layer partition system, compared with just 49Rw dB from a double layer Siniat Standard board system.

Single system LaDura LD004 compared to Siniat Standard board double layer system RCP 046.

Thinner Partitions = more net floor space

The density of LaDura enables designers to create a thinner partition to maximise net floor space without compromising on performance – particularly attractive to hotel and multi-residential clients.

This often means a double layer of board can be replaced with single layer solution, which saves time on the installation phase and a 25mm thinner partition.

Single system LaDura LD008 compared to Siniat Standard board double layer system RCP 046.

Direct Fixing

As LaDura is mechanically strong, fixtures and fittings like shelving, equipment and classroom whiteboards can be directly hung without fixing to pattresses, up to 15kg* per fixing.

*15mm LaDura.

The flexibility to change fixtures and fittings

LaDura’s greater pull-out resistance means that fixtures and fittings can be easily changed without the need for extra pattress work. This allows the end user more flexibility.

Withstands wear and tear

LaDura has a severe duty rating which is the highest durability category awarded to a product under BS5234-2:1992. Because of its density, LaDura is resistant to the minor dents, blemishes or general wear and tear that partitions face every day, from bags and trolleys, to wheelchairs and hospital beds.

This robustness reduces on-going maintenance costs for facility providers.
LaDura comes from Siniat, one of the most sustainable providers of drywall solutions in the sector. LaDura typically achieves BRE Green Guide ratings of up to A+ due to its performance on a light metal system, which can lead to savings in labour, installation time, waste and materials. LaDura fulfils the sustainable procurement criteria of the most demanding projects. By specifying a single layer partition system over a double layer, you will have contributed to the reduction of the carbon footprint of your project.

In addition:

- We manufacture LaDura in the UK with the quality assurance of CE marking to BS EN 15283-1:2008+A1:2009
- LaDura is mainly comprised of gypsum, which is a non-hazardous material, enclosed in a liner produced from 100% recycled paper
- The production process requires 30% less carbon than a gypsum fibreboard.

*BES6001 Responsible Sourcing applies to 15mm LaDura.*
BIM Objects

We have a full suite of BIM Objects to help designers and contractors comply with Level 2. This includes dedicated LaDura objects, with a substantial amount of information included for you – to incorporate into your next BIM project.

Visit www.siniat.co.uk/en/knowledge-centre/bim

Bespoke detailing

If you would like us to do the detail for you, our Technical Support team are LaDura experts and are happy to help.

0800 145 6033
technical.services@siniat.co.uk
Duty ratings

BS EN 5234-2:1992 comprises a series of tests which are used to establish the Duty rating of a partition. This grading is determined by how well a partition performs under a range of strength and durability tests. Once all tests are completed the partitions duty rating is graded within one of four categories: Light, Medium, Heavy and Severe Duty.

These categories can be summarised as below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Category</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Duty</td>
<td>Adjacent space only accessible to persons with high incentive to exercise care. Small chances of accident or of misuse.</td>
<td>Domestic accommodation</td>
</tr>
<tr>
<td>Medium Duty</td>
<td>Adjacent space moderately used primarily by persons with some incentive to exercise care. Chances of accident occurring and of misuse.</td>
<td>Office accommodation</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>Adjacent space frequently used by the public and others with little incentive to exercise care. Chances of accident occurring and of misuse.</td>
<td>Public circulation areas</td>
</tr>
<tr>
<td>Severe Duty</td>
<td>Adjacent space intensively used by the public and others with little incentive to exercise care. Prone to vandalism and abnormally rough use.</td>
<td>Major circulation areas, Heavy industrial areas</td>
</tr>
</tbody>
</table>

In practice Light Duty partitions are only suitable for limited applications. For this reason Siniat do not recommend any Light Duty partition systems.
There are six tests within BS EN 5234-2:1992 and all six tests must be achieved at the required performance level to achieve that grading.

The tests for BS EN 5234-2:1992 are shown below with the Severe duty test grade highlighted. LaDura passed all of the following tests within the Severe Duty grade.

**Annex A: Partition stiffness**
A 500N (approx 50kg) load is applied to the wall and the deflection is measured. A **Severe Duty** wall will deflect less than 10mm.

**Annex B: Small, hard body surface impact**
A 50mm steel sphere weighing 3kg is swung into the partition and any resulting damage is recorded. The damage after a 10Nm impact must be repairable to achieve **Severe Duty**.

**Annex C: Large, soft body impact**
A soft, 50kg bag, approximately equivalent to a 13 year old child’s weight, is swung into the partition and any damage is measured. A **Severe Duty** partition will deform less than 2mm after a 100Nm impact.

**Annex D: Small, hard body perforation**
The same 50mm steel sphere is swung at a specified energy depending on the grade. To pass **Severe Duty** a partition must not be perforated by a 30Nm impact.

**Annex E: Large, soft body damage**
The 50kg soft bag is swung multiple times into the partition to simulate impact from a person or child. It must show no structural collapse after a 120Nm impact to meet **Severe Duty**.

**Annex F: Door slam**
Various weights of doors are fitted into a wall and slammed up to 100 times, for a **Severe rating** there must be no damage and less than 1mm movement.

Additional tests in BS EN 5234-2:1992 measure cabinet fixture loadings, and crowd pressure to allow use as a barrier.
The composite technology of gypsum and wood particles is key to LaDura’s system performance. Its unique characteristics offer severe duty performance from a single 12.5mm boarded partition alongside fire, acoustic and moisture performance.

Combined with our external sheathing board Weather Defence, LaDura can achieve outstanding through-wall performance delivering safe and comfortable buildings. Please refer to our Weather Defence brochure for more details, you can download it at www.siniat.co.uk

For further system configurations please contact Siniat Technical Services for more information.

0800 145 6033

technical.services@siniat.co.uk
## Siniat double layer systems

**System LDP 011**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LDP 050</td>
<td>LaDura 1x15 + 9.5std</td>
<td>CS70RX</td>
<td>25mm 16kg/m³</td>
<td>120</td>
<td>56</td>
<td>Severe</td>
<td>60</td>
<td>EI 60</td>
<td>4.6</td>
</tr>
<tr>
<td>LDP 011</td>
<td>LaDura 2x12.5</td>
<td>CS70RX</td>
<td>25mm 16kg/m³</td>
<td>120</td>
<td>56</td>
<td>Severe</td>
<td>120</td>
<td>EI 90</td>
<td>5.0</td>
</tr>
<tr>
<td>LDP 130</td>
<td>LaDura 2x12.5</td>
<td>CS90RX</td>
<td>25mm 16kg/m³</td>
<td>140</td>
<td>57</td>
<td>Severe</td>
<td>120</td>
<td>EI 90</td>
<td>6.4</td>
</tr>
<tr>
<td>ADP 130</td>
<td>LaDura 2x12.5</td>
<td>AS90RX</td>
<td>25mm 16kg/m³</td>
<td>140</td>
<td>56</td>
<td>Severe</td>
<td>120</td>
<td>EI 90</td>
<td>6.4</td>
</tr>
<tr>
<td>LDP 024</td>
<td>LaDura 2x15</td>
<td>CS70RX</td>
<td>25mm 16kg/m³</td>
<td>130</td>
<td>57</td>
<td>Severe</td>
<td>120</td>
<td>EI 120</td>
<td>5.6</td>
</tr>
<tr>
<td>LDP 140</td>
<td>LaDura 2x15</td>
<td>CS90RX</td>
<td>50mm 16kg/m³</td>
<td>150</td>
<td>58</td>
<td>Severe</td>
<td>120</td>
<td>EI 120</td>
<td>7.2</td>
</tr>
<tr>
<td>LDP 038</td>
<td>LaDura 2x15</td>
<td>Twin CS50RX</td>
<td>25mm 16kg/m³</td>
<td>200</td>
<td>65</td>
<td>Severe</td>
<td>120</td>
<td>EI 120</td>
<td>6.4</td>
</tr>
</tbody>
</table>
TYPICAL SYSTEM CONSTRUCTION DETAILS

Typical Siniat System Construction Details

- Mineral Wool between studs
- Siniat Performance Self Tapping Screws
- Siniat C Stud
- Siniat Taping and Jointing
- Siniat LaDura Board
- Siniat LaDura Board
- Proprietary decoration paint finish over Drywall sealer

For further system configurations please see our website or contact Siniat Technical Services for more information.

0800 145 6033
technical.services@siniat.co.uk
www.siniat.co.uk
LaDura is easier and quicker to install than alternatives

This superior board offers a wide range of installation benefits:

- You can often achieve the performance you need with a single layer partition system
- A single layer partition requires less material and less labour than a double layer offering a cost saving in materials and labour
- LaDura is 15% lighter than gypsum fibre boards, offering manual handling benefits
- LaDura can be simply scored and snapped and does not need specialist cutting tools.
- It is easier to joint as no specialist jointing material required
- LaDura requires a lighter gauge steel and fewer screws than gypsum fibre board
- It’s smooth paper liner means the final finishing stage will be much quicker, creating a further cost saving in materials and labour
- LaDura is 100% recyclable and is accepted by our GTEC Wasteline Direct Service for recycling into new plasterboard
- You can directly fix to LaDura, which eliminates the need to install patressing

"LaDura gave us a real commercial edge on this project. A primary motivation for choosing it was its excellent duty rating, which meant we needed fewer boards, often only half as many as usual. This saved a significant amount of installation time on the project and reduced our costs."

John Reynolds, Managing Director, L Reynolds, Nottingham University Project

“When compared with the competition, LaDura came out on top, particularly as the alternative product option required cutting with a circular saw. LaDura can be cut in the traditional manner with a utility knife using the score and snap technique”

Kevin Collins, Senior Contracts Manager, RDK Drylining
The installation comparison with gypsum fibre boards

Installers tell us that gypsum fibre boards are not easy to use on site. The board is heavy and can be difficult to cut. It needs a 0.6mm gauge frame and to be fixed at 250mm centres. The finishing stage is cumbersome, especially for projects which require a smooth, professional finish like multi-residential, healthcare and hotels.

We have created a brief summary of the differences in the installation steps required for LaDura versus a typical gypsum fibre board.

<table>
<thead>
<tr>
<th>Grade</th>
<th>LaDura</th>
<th>Gypsum fibre board</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/m²)</td>
<td>12.8kg</td>
<td>15kg</td>
<td>LaDura is 15% lighter to handle.</td>
</tr>
<tr>
<td>Cutting</td>
<td>Score the sheet one side with a utility knife and snap the board.</td>
<td>Score using a tungsten tipped knife and snap. Or use a hand or electric saw (blades should be tempered or tungsten carbide steel). A vacuum attachment is recommended.</td>
<td>LaDura does not need specialist or electric cutting tools.</td>
</tr>
<tr>
<td>Fixing</td>
<td>0.52mm metal gauge framing. Screws fixed at 300mm centres.</td>
<td>0.6mm metal gauge framing. Screws fixed at 250mm centres (for some boards).</td>
<td>LaDura requires 13% lighter gauge steel. LaDura requires up to 20% less screws.</td>
</tr>
<tr>
<td>Finishing</td>
<td>Paper liner provides superior finish for direct applied decoration. Tape &amp; joint with standard jointing products.</td>
<td>Textured board surface. For a smooth finish skim with specialist surface treatment. Tape &amp; Joint using specialist jointing products. Square edge boards can be glued using specialist adhesive.</td>
<td>LaDura's paper liner provides a superior surface finish which needs less preparation before decoration. Jointing is easier using standard products.</td>
</tr>
</tbody>
</table>
“Hospitals have high quality – often heavy – fixtures but as the use of a room changes you’re often limited to certain areas on the wall to install them. LaDura is strong enough to negate the need to go back and reinforce with plywood – meaning you can easily change the use and fittings of a room.”

Kabir Salihi, Project Manager, Interserve.

“"The project surpassed cost, time and quality objectives. The whole environment, from lighting, technology to amount of space ensures it is conducive to working and a great environment to work in.”

Paula Bamber, Head of Facilities and Developments, The Walton Centre NHS Foundation Trust.
INSTALLATION BENEFITS

Direct fixing gives flexibility

CASE STUDY: GO Interiors

When this drylining system distributor required its own drylining solution to create robust partitions, they chose LaDura. Creating a partition between two very diverse business areas – the staff offices and the busy distribution centre – the partition needed to be robust enough to withstand the demands of customer footfall and large deliveries whilst also making the staff office space comfortable and quiet.

"Moving to a purpose built office not only gave us a blank page, but also the opportunity to question what we actually wanted the space to do for us. Internally we wanted the flexibility to move and add workstations. Using a board that would take a direct fixing meant we could add, move and re-fix, shelves, wall mounted media screens and information boards. LaDura allows us to directly fix to the wall anywhere internally, on a Siniat stud system, and seemed an obvious choice as that met all the criteria."

Guy Hamilton, Depot Manager, Go Interiors.
INSTALLATION GUIDE

Step 1: Framing
LaDura plasterboard can be installed on both steel and timber framed structures. Set studs at a maximum 600mm centres.

Step 2: Fixing
- Screw fix the board to the frame at a maximum 300mm
- Cut the board 5-8mm shorter than the floor to ceiling height and butt firmly against the ceiling
- Specialist screws need to be used for this high density board, so fix with
  a. When using 0.52mm and 0.7mm metal gauge, use Siniat Performance Self-Tapping Screws
  b. When using 0.9mm and 1.2mm metal gauge, use Siniat Self Drilling Drywall Screws
  c. When using timber framing use Siniat High Thread Drywall Screws.

Step 3: Finishing
LaDura provides an outstanding, smooth finish.
- If taping and jointing:
  • Joint with standard Siniat taping and jointing products
  • Seal with Siniat Universal or Drywall Sealer prior to decoration.
- If skimming:
  • Ensure the surface of the board has been sealed with a PVA bonding agent and is skimmed when a second coat of PVA is still tacky.

Fixing Design Pull-out Resistance (kN) including safety factor

<table>
<thead>
<tr>
<th></th>
<th>Spit Driva</th>
<th>Spit Hollow Wall Anchor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single layer 15mm Standard Board</td>
<td>0.15</td>
<td>0.35</td>
</tr>
<tr>
<td>Single layer 15mm Technical Board</td>
<td>0.2</td>
<td>0.4</td>
</tr>
<tr>
<td>Single layer 15mm LaDura</td>
<td>0.25</td>
<td>0.5</td>
</tr>
<tr>
<td>Double layer 15mm Standard Board</td>
<td>0.25</td>
<td>0.55</td>
</tr>
<tr>
<td>Double layer 15mm Technical Board</td>
<td>0.3</td>
<td>0.65</td>
</tr>
<tr>
<td>Single layer 15mm Standard Board + 15mm LaDura pattress</td>
<td>0.35</td>
<td>0.7</td>
</tr>
<tr>
<td>Single layer 15mm Technical Board + 15mm LaDura pattress</td>
<td>0.35</td>
<td>0.75</td>
</tr>
<tr>
<td>Single layer 15mm LaDura + 15mm LaDura pattress</td>
<td>0.4</td>
<td>0.85</td>
</tr>
<tr>
<td>Double layer 15mm Standard Board + 15mm LaDura pattress</td>
<td>0.4</td>
<td>0.85</td>
</tr>
<tr>
<td>Double layer 15mm LaDura</td>
<td>0.4</td>
<td>0.85</td>
</tr>
<tr>
<td>Double layer 15mm Technical Board + 15mm LaDura pattress</td>
<td>0.45</td>
<td>1</td>
</tr>
<tr>
<td>Double layer 15mm LaDura + 15mm LaDura pattress</td>
<td>0.5</td>
<td>1.15</td>
</tr>
</tbody>
</table>
CASE STUDY

Reduced complexity of build materials on site

Isaac Newton Academy Case Study – 4 years on from Installation

In 2012, 25,000m² of LaDura partitions and linings were installed in Isaac Newton Academy Ilford, London.

Four years after installation we returned to the school to ensure the partitions were withstanding the 1250 pupils who use the school every day.

Brian Bowry Premises Manager for the school confirms since the installation of the LaDura in 2012, no repairs have been required for any damage to the partitions and linings. With no damage to repair, Brian and his team can concentrate on painting the walls, so the school continues to look its best.

Sub-contractor Clark & Fenn Skanska chose LaDura for multiple reasons. The ability to carry various heavy weight items including classroom equipment with a range of different fixings, negating the need for plywood pattresses.

LaDura can also be used throughout the project, which eliminates the requirement for different board types simplifying the design.

“Better value does not mean building schools very cheaply, but creating cost-effective environments that help drive up educational outcomes, enhance teacher and pupil wellbeing, and limit future running and maintenance costs.”


LaDura also offered environmental benefits as Viv Cooke, Estimating Director explains:

“The use of LaDura offered a number of environmental benefits. By not using plywood we cut down on the use of timber, and of course we only needed to bring half the materials on site, reducing the transportation requirement.”
# TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>12.5mm Performance</th>
<th>15mm Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Mass</td>
<td>12.8 Kg/m²</td>
<td>15 Kg/m²</td>
</tr>
<tr>
<td><strong>Mechanical properties</strong></td>
<td>Young's Modulus E to DIN 18180</td>
<td>Longitudinal: 3500 N/mm² Transversal: 4500 N/mm²</td>
<td>Longitudinal: 3500 N/mm² Transversal: 4500 N/mm²</td>
</tr>
<tr>
<td></td>
<td>Breaking load in longitudinal direction</td>
<td>&gt;725N</td>
<td>&gt;870N</td>
</tr>
<tr>
<td></td>
<td>Breaking load in transverse direction</td>
<td>&gt;300N</td>
<td>&gt;360N</td>
</tr>
<tr>
<td></td>
<td>Flexural Strength in longitudinal direction</td>
<td>8.1 N/mm²</td>
<td>6.8 N/mm²</td>
</tr>
<tr>
<td></td>
<td>Flexural Strength in transverse direction</td>
<td>3.4 N/mm²</td>
<td>2.8 N/mm²</td>
</tr>
<tr>
<td></td>
<td>Compressive Strength</td>
<td>16 N/mm²</td>
<td>16 N/mm²</td>
</tr>
<tr>
<td></td>
<td>Surface hardness (Brinell)</td>
<td>35 N/mm²</td>
<td>35 N/mm²</td>
</tr>
<tr>
<td></td>
<td>Recommended pull-out resistance, single layer</td>
<td>0.4kN per fixing (SPIT CC Hollow Wall anchor, diameter 6mm)</td>
<td>0.5kN per fixing (SPIT CC Hollow Wall anchor, diameter 6mm)</td>
</tr>
<tr>
<td></td>
<td>Recommended pull-out resistance, double layer</td>
<td>0.6kN per fixing (SPIT CC Hollow Wall anchor, diameter 6mm)</td>
<td>0.85kN per fixing (SPIT CC Hollow Wall anchor, diameter 6mm)</td>
</tr>
<tr>
<td><strong>Fire</strong></td>
<td>Reaction to fire</td>
<td>A2-s1: d0 to BS EN 520.2005</td>
<td>A2-s1: d0 to BS EN 520.2005</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td>Thermal conductivity R in accordance with DIN EN 12524</td>
<td>0.25 W/mK</td>
<td>0.25 W/mK</td>
</tr>
<tr>
<td></td>
<td>Thermal resistance R</td>
<td>0.05 m²K/W</td>
<td>0.06 m²K/W</td>
</tr>
<tr>
<td><strong>Permeability</strong></td>
<td>Water vapour diffusion resistance factor to BS EN 12524</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Water uptake to BS EN 520</td>
<td>5% in total mass: 180g/m² on surface (Cobb)</td>
<td>5% in total mass: 180g/m² on surface (Cobb)</td>
</tr>
<tr>
<td><strong>Moisture resistance</strong></td>
<td>Moisture content at 20°C</td>
<td>&lt;1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td></td>
<td>Dimensional stability under moisture at 20°C</td>
<td>0.35mm/m from 65 to 95% RH</td>
<td>0.35mm/m from 65 to 95% RH</td>
</tr>
</tbody>
</table>
**Lifetime System Warranty – Peace of Mind**

Siniat products and components are rigorously tested together. By completing this testing we are able to guarantee the technical performance of our systems throughout the project lifecycle.

Our systems when built with the correct components and materials, installed by qualified professionals in accordance with our latest literature and relevant standards, Siniat offers our invaluable Lifetime System Warranty. In the unlikely event of failure provided the system is unaltered, as originally designed and built, Siniat will reinstate the system to it’s originally specified performance level – giving you and your client peace of mind.

**Handling and storage**

Building work with LaDura should be planned, designed and managed in accordance with Construction Design and Management Regulations, 2015 (CDM 2015). Ensure all related hazards are identified and controlled.

LaDura is supplied on a bearer or wooden pallet system and packs should be moved using a fork lift truck or hydraulic trolley. Care should be taken to ensure that the machinery is safely capable of such movements and that the operator is trained and competent.

LaDura should be stored in dry, flat conditions.

**Pack size**

<table>
<thead>
<tr>
<th>Board thickness (mm)</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Boards per pallet</th>
<th>Board weight (kg/m²)</th>
<th>Pallet weight (tonnes)</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>12.5</td>
<td>1200</td>
<td>2400</td>
<td>40</td>
<td>12.8</td>
<td>1.50</td>
<td>90452</td>
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<tr>
<td>12.5</td>
<td>1200</td>
<td>3000</td>
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<td>90460</td>
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<tr>
<td>15</td>
<td>1200</td>
<td>2400</td>
<td>40</td>
<td>15.0</td>
<td>1.80</td>
<td>90453</td>
</tr>
<tr>
<td>15</td>
<td>1200</td>
<td>3000</td>
<td>30</td>
<td>15.0</td>
<td>1.69</td>
<td>90461</td>
</tr>
</tbody>
</table>

**Physical and chemical properties appearance:**

Coloured grey paper faced flat sheets that are available in a range of thicknesses and lengths, with edge profiles being taper edged. plasterboard is not a suitable product to be used as a platform or deck, it will not support body weight and therefore it is important that installers use an independent support mechanism.

**Personal protection**

**Respiratory:** The area should have adequate ventilation and/or dust extraction, if not a half face mask to BS EN 149:2001 + A1:2009 Class FFP1S should be used.

**Eyes:** Safety goggles to BS EN 166:2002 are recommended when dust is likely to occur.

**Skin:** Wear overalls and suitable clothing to avoid repeated skin contact.

**Hands:** To limit the effect, wear protective gloves. A barrier cream can also be applied.

**Exposure controls/Personal protection**

Occupational Exposure Limits: Workplace Exposure Level (WEL)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Total inhalable</th>
<th>Total respirable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypsum</td>
<td>10mg/m³</td>
<td>4mg/m³</td>
</tr>
<tr>
<td>Limestone</td>
<td>10mg/m³</td>
<td>4mg/m³</td>
</tr>
<tr>
<td>Quartz</td>
<td>—</td>
<td>0.3mg/m³</td>
</tr>
<tr>
<td>Man Made Mineral Fibre</td>
<td>—</td>
<td>5mg/m³</td>
</tr>
</tbody>
</table>

Note: Based on 8 hour TWA period.
To see how LaDura can benefit your next project, call our Technical Services team on 0800 145 6033.

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