

DRYWALL PARTITION

INSTALLATION MANUAL

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RISK ASSESSMENT RECOMMENDATIONS*

Hazard	Safety Controls
General health & safety	1. Installer should be informed of specific health and safety requirements in context via joining Instructions.
Hand tools	1. All workers should be properly trained regarding tools and provided with hand tools that meet relevant safety requirements. 2. Tools should be inspected by supervisors at regular intervals & damaged/defective tools to be taken out of use immediately. 3. The installer is instructed by joining instructions and provided with all necessary PPE.
Power tools	1. Site Supervisor to provide training & demonstration on power tools operation & safety. 2. Cables should be routed away from aisles and walkways where they could create trip hazards to other persons. 3. Periodically check tools for damage/defects and where necessary take out of action and label "Do not use".
Manual handling	1. All materials to be stored in approved and agreed locations within a working area. 2. Forklift truck/pallet truck to be provided for transport of large pallets and waste skips. 3. PPE to be worn when mixing plaster, this includes goggles, dust mask, overalls, safety shoes.
Working at height	1. Demonstration by a certified individual in the safe use of: erection, securing, stabilizing steps, hop ups, trestles. 2. Provision of safe means of access to steps, hop ups, trestles. 3. Use of warning signs at all access points to the work area where work is being carried out above ground level.
Materials	1. All materials are stored in an approved location within a working area 2. MSDS to be displayed in the storage area. 3. Site Supervisor to instruct / explain the safe handling of materials. 4. The worker informed of personal hygiene requirements, wash hands after use/contact and before eating, drinking, and smoking.
General house keeping	1. Worker given verbal instructions to maintain clean/tidy up individual workplaces during and after work times. 2. Tools/equipment to be stored in lockable toolbox. 3. Wet/damp sweeping techniques to be used for general cleaning of work area to control dust levels.

* It is the sole responsibility of the contractor to conduct an appropriate risk assessment for the site.

STORAGE

RECOMMENDATIONS

Mada Plus Plasterboards shall be stored in a warehouse or other suitable structure where they will not be exposed to inclement weather or to temperatures that frequently exceed 52°C. Stacks of Mada Plus Plasterboards shall be stored supported evenly on a firm, dry, level, and structurally sound floor. Gypsum board shall always be stored flat. Stacks of Mada Plus Plasterboards shall be limited to a maximum height of 5 m.

Mada Plus Plasterboards shall not be stored in areas of excessive humidity nor shall they be stored beneath overhead equipment which may have a tendency to drip grease, oil, or water. Mada Plus Plasterboards shall not be left in heavy traffic areas or where they can be damaged by lift trucks and other warehouse equipment, nor shall they be stored at aisle intersections. If Mada Plus Plasterboards are stored at aisle junctions, corner protectors constructed of sheet metal or similar suitable materials shall be used.

Most plasterboard panels are sensitive to moisture and should not be stored outdoors without complete protection from the weather conditions.

The plastic covering provided for product protection during shipment on flatbed trucks is not suitable for storage of the Mada Plus Plasterboards and shall be removed upon arrival at the destination prior to warehouse storage. Failure to remove this plastic covering can result in damage to the Mada Plus Plasterboards due to moisture, condensation, wet product, and/or mold.

Metal products are available in both pack and sub-pack quantities and should be handled in accordance with the recommendations contained in Local Health and Safety at Work Principles and Practices.

Store metal products away from airborne contaminants such as acid or salt spray in an environmentally friendly area.

Storing gypsum board on Job Sites

- Mada Plus Plasterboards placed on a job site shall be separated by type (place the type of products near areas where it will be installed. This system of placement reduces the chance that the wrong type of Mada Plus Plasterboards will be installed and applicators / installers will have easy access to the stocked products.)
- Do not place longer-length Mada Plus Plasterboards sizes on top of shorter lengths.
- Mada Plus Plasterboards shall be stocked out of the way of construction traffic.
- Special care shall be taken to ensure that the Mada Plus Plasterboards doesn't damage the exposed studs, windows, door frames, etc.
- Mada Plus Plasterboards shall be stockpiled so as not to hinder the work of construction tradesmen.
- Mada Plus Plasterboards on a job site shall never have any other materials stored or stacked on top of them.
- Mada Plus Plasterboards shall be stockpiled so their weight is evenly distributed, and the floor is not overloaded.
- Mada Plus Plasterboards shall not be stacked high enough to pose a danger from toppling.
- Mada Plus Plasterboards stored in unenclosed buildings shall be placed far enough inside so that they are not exposed to inclement weather, such as wind blown rain or snow..
- Special care is necessary when stockpiling upper floors of open buildings during periods of high winds.

Metal storage

- Products are supplied in pack and sub-pack quantities and should be handled in accordance with the recommendations of Health and Safety at Work Principles and Practice.
- Where mechanical lifting or moving equipment is required, trained and licensed operators are to be used.
- Metal products should be stored in an environmentally-friendly area away from airborne contaminants such as acid and salt sprays.

EXECUTION OF WORK

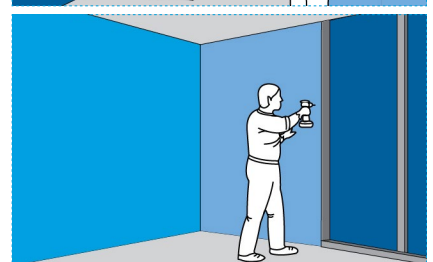
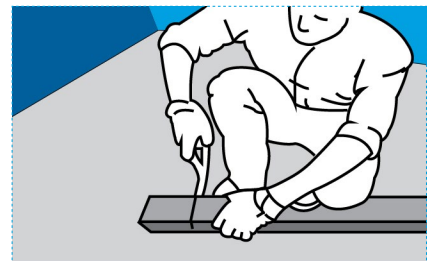
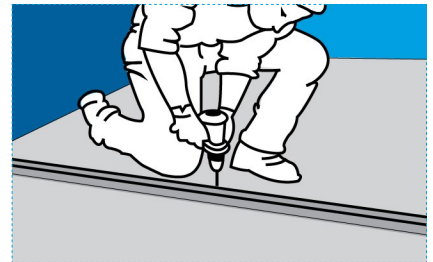
NON FIRE RATED PARTITION

Framing

- Set out the bottom and head tracks along the partition's setting out line at the floor and the soffit, and secure them with appropriate Mada fasteners and designated centers as defined in the Mada project proposal.
- Ensure that the span for the Mada C-Studs does not exceed maximum span defined in the Mada project proposal.
- Cut the Mada C-Studs to length, allowing for spacing under the Mada Track at the soffit to match the appropriate Mada Deflection Head detail.
- The Mada C-Studs should be inserted into the Mada Tracks with the web of the section parallel to the face of the partition and turned to lock into place. The webs of perimeter Mada C-Studs shall be flat against adjoining walls or partitions, fastened at specified centers [as mentioned in the proposal] with appropriate Mada fasteners. Gypsum board widths of less than 300mm should be avoided during framing.
- Use additional Mada C-Studs [according to the Mada typical details drawing] at openings, corners, junctions, and stop ends, attaching them with Mada Plus Wafer Head Screws to the head and floor framing.

Boarding

- Cut the Mada Plus Plasterboard to the correct height (considering spacing required as per the appropriate Mada Deflection Head Detail required to satisfy the project soffit deflection allowance) and fasten with the specified screws [given in the proposal], taking care to leave the space specified in the proposal at the top and at least 8mm from the floor on all sides.
- For surface layers, the specified Mada fixings are to be located at 200mm centers to the perimeter of the board and 200mm centers to the field of the board.
- For internal layers, the specified Mada fixings are to be located at 400mm centers to the perimeter of the board and 600mm centers to the field of the board.
- Choose the proper screw length so that it penetrates the metal a minimum of 10mm. When securing the boards, pay attention to the screwhead depth. The screw's head ought to be just barely visible within the board. It should never break the paper liner or fracture the gypsum core of the board, and it shouldn't protrude over the surface of the board either.



EXECUTION OF WORK

NON FIRE RATED PARTITION

Perimeter Sealant [Optional for Non Fire Rated Partition]

Apply a minimum of 8mm square bead of Sealant around the perimeter of the wall. Also, around penetration cut-outs Sealant to be applied as per the typical detail drawings. The top gap will be as specified in the Mada project proposal.

MEP services

The installation of MEP services should be carried out according to the Mada standard typical detail drawings. Details should be coordinated with the concerned MEP specialist.

Insulation (if required by Mada project proposal)

The Installation method is prepared in general to provide basic steps while installing Mada Insulation with in Dry Wall steel structural frame. Depends on actual site conditions the sequence or method can be altered as per Engineer-in-charge.

Basic Tools required

- Measuring Tape
- Utility knife or an insulation saw – a knife with a serrated blade
- Straightedge to cut insulation straight

Protection Equipment: -

- Work gloves, loosely fitted dress which covers the complete body.
- Safety glasses in case of overhead work
- Disposable dust mask

Material Handling Measures: -

- Store Mada Insulation material to prevent from damage.
- Remove insulation packaging near the installation site.
- Avoid unnecessary handling or transportation of Mada Insulation material once packaging is removed.
- Do not walk over Mada Insulation Material; It may damage the Insulation and facing.
- To avoid excess dust and loose fiber particles during cutting use sharp knife to cut and use flat surface to keep the material while cutting.
- Cover the open insulation surface during night to prevent the dew droplets fall over insulation at places where humidity level is higher.
- Keep the workplace clean and remove the cutouts and left out unused pieces immediately after to garbage bin.
- In confined spaces make necessary arrangement of ventilation.

EXECUTION OF WORK

NON FIRE RATED PARTITION

Partition Installation Method - High Density Slab Insulation:

Once steel structure frame for the Mada Dry Wall partition is ready, and one side of the frame boarded. Mada Insulation shall be installed as follows:

1) Site Preparation:

- i. Clean the surface thoroughly to ensure it is free from dust, rust and any foreign particles.
- ii. Remove any protrusions from the installation surface.

2) Application of Self Adhesive Stuck-Up Pins and adhesive:

In general the Mada Insulation is installed snug fit within the framing cavity and no need of stuck pin or adhesive. Where additional restraint is required, follow these steps:

- i. Mark the location for Stuck Up pins such that each panels of size 1.2 m x 0.6m has five stuck Up pins.
- ii. Four Self Adhesive Stuck-Up pins at each corner, 150mm inside from the edges and one at center.
- iii. In case adhesive is used, apply the adhesive as per adhesive manufacturer instruction to the installed gypsum/cement fiber board.
- iv. Provide and fix Mada Insulation within the frame.
- v. Insert the Speed Washer (minimum 50mm)

3) Application of Mada Insulation:

- i. Provide and Fix the Mada Insulation of desired thickness and density, within the frame structure ensuring a tight snug fit.
- ii. In case adhesive is used, press the Mada Insulation gently.
- iii. Make a snug fit application near the openings.

Continue installation as per Partition guidance.

EXECUTION OF WORK

NON FIRE RATED PARTITION

Partition Installation Method - Quilt Insulation:

Once steel structure frame for the Mada Dry Wall partition is ready, and one side of the frame boarded. Mada Insulation shall be installed as follows:

1) Site Preparation:

- i. Clean the surface thoroughly to ensure it is free from dust, rust and any foreign particles.
- ii. Remove any protrusions from the installation surface.

2) Hanging Quilt:

- i. Ensure insulation is separated to match stud spacings and that the length of material is adequate to span the full height of the partition in a continuous drop.
- ii. clamp the insulation to the soffit (inside the channel or the partition cavity as stated in the Mada project proposal) using Mada Wall Angle (25x25mm) cut to length to fit within stud centres, secured using appropriate Mada fixings, with a minimum 50mm of excess material over lapping the clamp.
- iii. ensure the insulation is inserted into the framing profiles to maintain full coverage.
- iv. where the material supplied does not allow for a complete and continuous drop, insulation can be jointed as appropriate to its density by stitching or creating an intermediate suspension point using appropriate Mada sections.
- v. Make a snug fit application around penetrations or openings.

Continue installation as per Partition guidance.

EXECUTION OF WORK

FIRE RATED

Framing

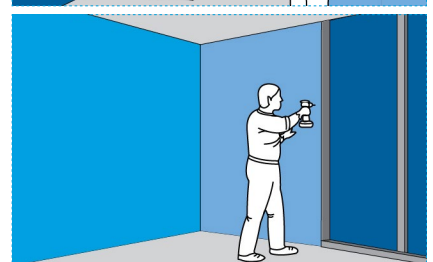
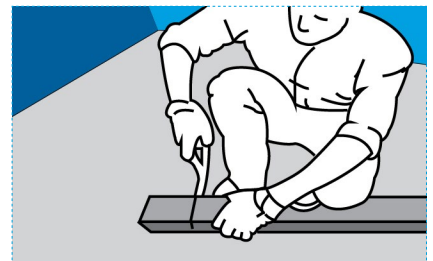
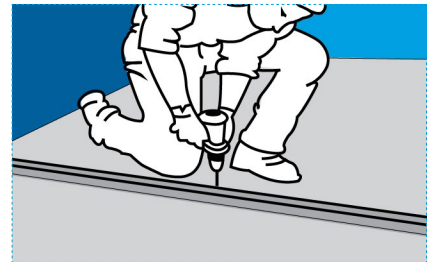
- Set out the bottom and head tracks the partition's setting out line at the floor and the soffit, and secure them with appropriate Mada fasteners and designated centers as defined in the Mada project proposal.
- Ensure that the span for the Mada C-Studs does not exceed maximum span defined in the Mada project proposal.
- Cut the Mada C-Studs to length, allowing for spacing under the Mada Track at the soffit to match the appropriate Mada Deflection Head detail.
- The Mada C-Studs should be inserted into the Mada Tracks with the web of the section parallel to the face of the partition and turned to lock into place. The webs of perimeter Mada C-Studs shall be flat against adjoining walls or partitions, fastened at specified centers [as mentioned in the proposal] with appropriate Mada fasteners. Gypsum board widths of less than 300mm should be avoided during framing.
- Use additional Mada C-Studs [according to the Mada typical details drawing] at openings, corners, junctions, and stop ends, attaching them with Mada Plus Wafer Head Screws to the head and floor framing.

Noggin's

All horizontal joints of the boards Horizontal cut joints of the boards should be backed-up with Noggin's made from U-Track / Fixing Channel (as per Mada project proposal).

Boarding

- Cut the Mada Plus Plasterboard to the correct height (considering spacing required as per the appropriate Mada Deflection Head Detail required to satisfy the project soffit deflection allowance) and fasten with the specified screws [given in the proposal], taking care to leave the space specified in the proposal at the top and at least 8mm from the floor on all sides.
- For surface layers, the specified Mada fixings are to be located at 200mm centers to the perimeter of the board and 200mm centers to the field of the board.
- For internal layers, the specified Mada fixings are to be located at 400mm centers to the perimeter of the board and 600mm centers to the field of the board.
- Place screws no closer than 10mm or more than 13mm from board edges and ends. Vertical and horizontal joints to be staggered between layer to layer and side to side. Space screws at 200mm center around openings / penetrations.
- Choose the proper screw length so that it penetrates the metal a minimum of 10mm. When securing the boards, pay attention to the screwhead depth. The screw's head ought to be just barely visible within the board. It should never break the paper liner or fracture the gypsum core of the board, and it shouldn't protrude over the surface of the board either.



EXECUTION OF WORK

FIRE RATED

Perimeter Sealant

Apply a minimum of 8mm square bead of Sealant around the perimeter of the wall. Also, around penetration cut-outs Sealant to be applied as per the typical detail drawings. The top gap will be as specified in the Mada project proposal.

MEP services

The installation of MEP services should be carried out according to the Mada standard typical detail drawings. Details should be coordinated with the concerned MEP specialist.

Insulation (if required by Mada project proposal)

The Installation method is prepared in general to provide basic steps while installing Mada Insulation with in Dry Wall steel structural frame. Depends on actual site conditions the sequence or method can be altered as per Engineer-in-charge.

Basic Tools required

- Measuring Tape
- Utility knife or an insulation saw – a knife with a serrated blade
- Straightedge to cut insulation straight

Protection Equipment: -

- Work gloves, loosely fitted dress which covers the complete body.
- Safety glasses in case of overhead work
- Disposable dust mask

Material Handling Measures: -

- Store Mada Insulation material to prevent from damage.
- Remove insulation packaging near the installation site.
- Avoid unnecessary handling or transportation of Mada Insulation material once packaging is removed.
- Do not walk over Mada Insulation Material; It may damage the Insulation and facing.
- To avoid excess dust and loose fiber particles during cutting use sharp knife to cut and use flat surface to keep the material while cutting.
- Cover the open insulation surface during night to prevent the dew droplets fall over insulation at places where humidity level is higher.
- Keep the workplace clean and remove the cutouts and left out unused pieces immediately after to garbage bin.
- In confined spaces make necessary arrangement of ventilation.

EXECUTION OF WORK

FIRE RATED

Partition Installation Method - High Density Slab Insulation:

Once steel structure frame for the Mada Dry Wall partition is ready, and one side of the frame boarded. Mada Insulation shall be installed as follows:

1) Site Preparation:

- i. Clean the surface thoroughly to ensure it is free from dust, rust and any foreign particles.
- ii. Remove any protrusions from the installation surface.

2) Application of Self Adhesive Stuck-Up Pins and adhesive:

In general the Mada Insulation is installed snug fit within the framing cavity and no need of stuck pin or adhesive. Where additional restraint is required, follow these steps:

- i. Mark the location for Stuck Up pins such that each panels of size 1.2 m x 0.6m has five stuck Up pins.
- ii. Four Self Adhesive Stuck-Up pins at each corner, 150mm inside from the edges and one at center.
- iii. In case adhesive is used, apply the adhesive as per adhesive manufacturer instruction to the installed gypsum/cement fiber board.
- iv. Provide and fix Mada Insulation within the frame.
- v. Insert the Speed Washer (minimum 50mm)

3) Application of Mada Insulation:

- i. Provide and Fix the Mada Insulation of desired thickness and density, within the frame structure ensuring a tight snug fit.
- ii. In case adhesive is used, press the Mada Insulation gently.
- iii. Make a snug fit application near the openings.

Continue installation as per Partition guidance.

EXECUTION OF WORK

FIRE RATED

Partition Installation Method - Quilt Insulation:

Once steel structure frame for the Mada Dry Wall partition is ready, and one side of the frame boarded. Mada Insulation shall be installed as follows:

1) Site Preparation:

- i. Clean the surface thoroughly to ensure it is free from dust, rust and any foreign particles.
- ii. Remove any protrusions from the installation surface.

2) Hanging Quilt:

- i. Ensure insulation is separated to match stud spacings and that the length of material is adequate to span the full height of the partition in a continuous drop.
- ii. clamp the insulation to the soffit (inside the channel or the partition cavity as stated in the Mada project proposal) using Mada Wall Angle (25x25mm) cut to length to fit within stud centres, secured using appropriate Mada fixings, with a minimum 50mm of excess material over lapping the clamp.
- iii. ensure the insulation is inserted into the framing profiles to maintain full coverage.
- iv. where the material supplied does not allow for a complete and continuous drop, insulation can be jointed as appropriate to its density by stitching or creating an intermediate suspension point using appropriate Mada sections.
- v. Make a snug fit application around penetrations or openings.

Continue installation as per Partition guidance.

EXECUTION OF WORK

TWIN FRAME PARTITION

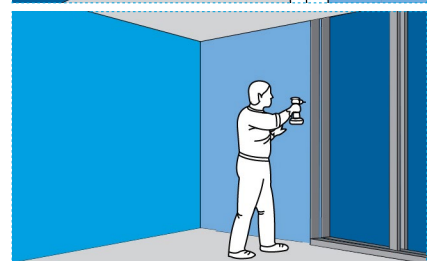
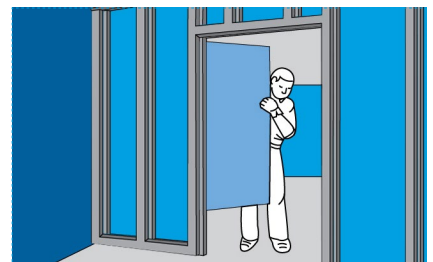
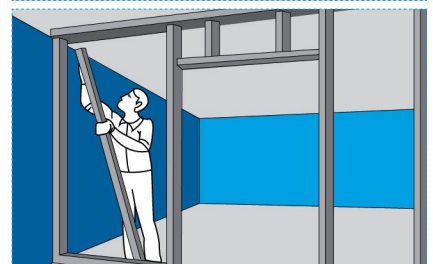
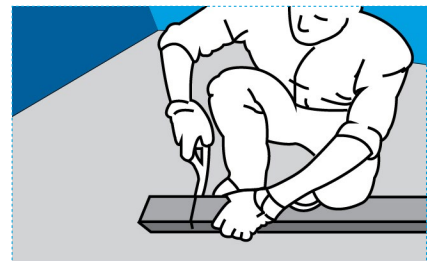
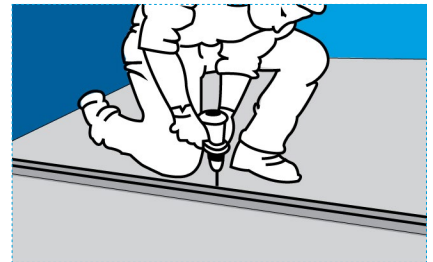
Framing

- Set out the bottom and head tracks along the partition's setting out line at the floor and the soffit, and secure them with appropriate Mada fasteners and designated centers as defined in the Mada project proposal.
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- Cut the Mada C-Studs to length, allowing for spacing under the Mada Track at the soffit to match the appropriate Mada Deflection Head detail.
- The Mada C-Studs should be inserted into the Mada Tracks with the web of the section parallel to the face of the partition and turned to lock into place. The webs of perimeter Mada C-Studs shall be flat against adjoining walls or partitions, fastened at specified centers [as mentioned in the proposal] with appropriate Mada fasteners. Gypsum board widths of less than 300mm should be avoided during framing.
- Use additional Mada C-Studs [according to the Mada typical details drawing] at openings, corners, junctions, and stop ends, attaching them with Mada Plus Wafer Head Screws to the head and floor framing.
- Mada C-Studs are to be located in pairs. Where bracing is defined in the Mada project proposal, the appropriate components are to be used at the specified vertical centers linking each pair of studs. Bracing is to be secured to the web of each Mada C-Stud using a minimum of 2 suitable Mada fixings.
- Use extra C-Studs [As per Mada typical details drawing] at openings, corners, junctions and stop ends, fixing to head and floor U-Tracks with Wafer Head Screws. In other place intermediate studs should not be fixed to U-Tracks to allow for adjustment when fixing boards.

Noggin's

Noggins are required to be installed as per Mada project proposal

Noggins are to be made from the same Mada U-Track profile, cut to length, and securely fixed to each stud.



EXECUTION OF WORK

TWIN FRAME PARTITION

Perimeter Sealant [Optional for Non Fire Rated Partition]

Apply a minimum of 8mm square bead of Sealant around the perimeter of the wall. Also, around penetration cut-outs Sealant to be applied as per the typical detail drawings. The top gap will be as specified in the Mada project proposal.

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Basic Tools required

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- Straightedge to cut insulation straight

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- Disposable dust mask

Material Handling Measures: -

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- Remove insulation packaging near the installation site.
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- Do not walk over Mada Insulation Material; It may damage the Insulation and facing.
- To avoid excess dust and loose fiber particles during cutting use sharp knife to cut and use flat surface to keep the material while cutting.
- Cover the open insulation surface during night to prevent the dew droplets fall over insulation at places where humidity level is higher.
- Keep the workplace clean and remove the cutouts and left out unused pieces immediately after to garbage bin.
- In confined spaces make necessary arrangement of ventilation.

EXECUTION OF WORK

TWIN FRAME PARTITION

Partition Installation Method - High Density Slab Insulation:

Once steel structure frame for the Mada Dry Wall partition is ready, and one side of the frame boarded. Mada Insulation shall be installed as follows:

1) Site Preparation:

- i. Clean the surface thoroughly to ensure it is free from dust, rust and any foreign particles.
- ii. Remove any protrusions from the installation surface.

2) Application of Self Adhesive Stuck-Up Pins and adhesive:

In general the Mada Insulation is installed snug fit within the framing cavity and no need of stuck pin or adhesive. Where additional restraint is required, follow these steps:

- i. Mark the location for Stuck Up pins such that each panels of size 1.2 m x 0.6m has five stuck Up pins.
- ii. Four Self Adhesive Stuck-Up pins at each corner, 150mm inside from the edges and one at center.
- iii. In case adhesive is used, apply the adhesive as per adhesive manufacturer instruction to the installed gypsum/cement fiber board.
- iv. Provide and fix Mada Insulation within the frame.
- v. Insert the Speed Washer (minimum 50mm)

3) Application of Mada Insulation:

- i. Provide and Fix the Mada Insulation of desired thickness and density, within the frame structure ensuring a tight snug fit.
- ii. In case adhesive is used, press the Mada Insulation gently.
- iii. Make a snug fit application near the openings.

Continue installation as per Partition guidance.

EXECUTION OF WORK

TWIN FRAME PARTITION

Partition Installation Method - Quilt Insulation:

Once steel structure frame for the Mada Dry Wall partition is ready, and one side of the frame boarded. Mada Insulation shall be installed as follows:

1) Site Preparation:

- i. Clean the surface thoroughly to ensure it is free from dust, rust and any foreign particles.
- ii. Remove any protrusions from the installation surface.

2) Hanging Quilt:

- i. Ensure insulation is separated to match stud spacings and that the length of material is adequate to span the full height of the partition in a continuous drop.
- ii. clamp the insulation to the soffit (inside the channel or the partition cavity as stated in the Mada project proposal) using Mada Wall Angle (25x25mm) cut to length to fit within stud centres, secured using appropriate Mada fixings, with a minimum 50mm of excess material over lapping the clamp.
- iii. ensure the insulation is inserted into the framing profiles to maintain full coverage.
- iv. where the material supplied does not allow for a complete and continuous drop, insulation can be jointed as appropriate to its density by stitching or creating an intermediate suspension point using appropriate Mada sections.
- v. Make a snug fit application around penetrations or openings.

Continue installation as per Partition guidance.

JOINTING & FINISHING WORKS

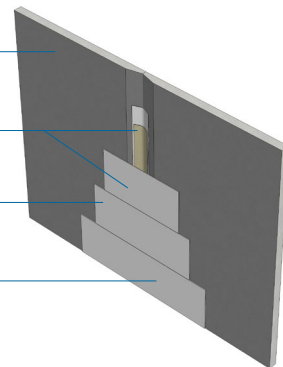
Tapered Edge Board Jointing

Mada Plasterboard

Bedding coat (150mm) using Mada tape bedded into Mada All-Purpose Jointing Compound

Second coat (200mm) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond bedding coat

Third coat (300mm) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond bedding coat



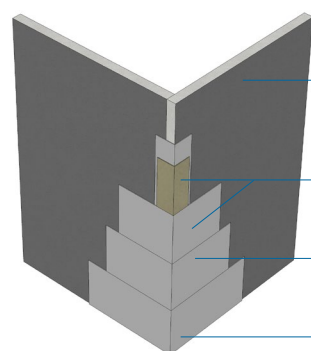
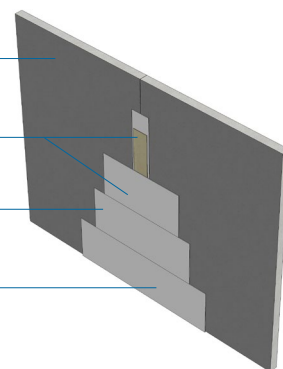
Square Edge Board Jointing

Mada Plasterboard

Bedding coat (300mm) using Mada tape bedded into Mada All-Purpose Jointing Compound

Second coat (400mm) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond bedding coat

Third coat (500mm) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond second coat



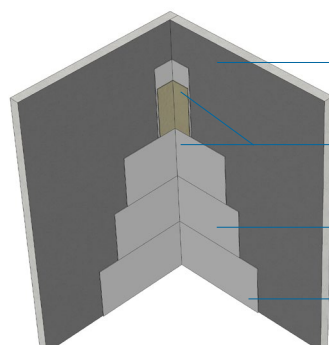
External Corner Joints

Mada Plasterboard

Bedding coat (150mm each side) using Mada Metal corner tape bedded into Mada All-Purpose Jointing Compound

Second coat (200mm each side) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond bedding coat

Third coat (300mm each side) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond second coat



Internal Corner Joints

Mada Plasterboard

Bedding coat (100mm each side) using Mada tape bedded into Mada All-Purpose Jointing Compound

Second coat (125mm each side) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond bedding coat

Third coat (150mm each side) of Mada All-Purpose Jointing Compound feathered out 50mm to 60mm beyond second coat



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