Welcome to the EOS Facades Load Bearing Structures Installation Guide

A successful project requires every trade in the design and construction journey to deliver with the highest standards and precision. As part of our drive to deliver sustainable light gauge steel materials and energy efficient buildings, we have endeavoured to share best practice and provide a complete set of Load bearing structures standard details for use primarily by installers.

Good projects start with good designs, and a good design is one that is matched to the client’s expectations, both in terms of cost and performance. This Guide presents best practice site checks to deliver optimum build quality for LBS [Load bearing structure] schemes. The Guide is aimed to assist:

- Project Managers
- LBS Erectors
- Site Managers
- Site Inspectors
- Trade Trainers
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SYSTEM OVERVIEW

EOS Facade Load bearing structures (LBS) are a total building frame supplied in pre-assembled 'off-site' panels and cassettes for erection on-site.

Loading factors including; overall stability; imposed, dead & wind loads; and disproportionate collapse are all taken into consideration during the design & engineering phase, as well as co-ordination with MEP services, fenestration and access requirements.

The system is commonly used for side and roof-top extensions of existing buildings, but equally suited to full multi-storey new build. This system offers a truly robust and lightweight alternative to traditional build methods.

All load bearing external and internal walls can be supplied as lightweight panels.

All floors / roofs are either supplied in C-Section or lattice beam cassette form, or as individual lattice beams for site installation.

All ancillary components, such as bracing, packing and fixings are included within the scope of supply.
DELIVERY

All EOS wall panels and floor elements are sent to site after pre-assembly in the EOS factory to highly accurate tolerances of +0mm / -2mm.

Delivered frames include:
- Individual labels with section size and part marking
- Inkjet marked with panel number and phase
- Colour-coded by floor or to suit agreed phasing
- Safely laid flat and strapped securely
- Options for safety handrails, blue ropes to aid slinging, and Moffett / Hi-Ab off-loading.

Frames should be off-loaded via crane, or suitable powered lifting machine with 2m extended forks.

DOCUMENTATION

With every delivery, the frames will include stillage sheets and delivery notes as a record copy for site and also to assist with logistics and frame allocation.

With the first delivery, site will be issued with a full set of project drawings, including:
- Plan drawings for each floor in order to set out walls
- Plan drawings of all floor frames and roof frames
- Elevations showing wall orientation and framing requirements.
- Marking plan showing frame numbers / positions.

TECHNICAL EXPERTISE

With every project, EOS Facades’ operatives are available to attend site to offer technical advice, design assistance and installation training.

Installer teams can benefit from day one ‘Tool box talks’, as well as phased site visits to offer independent quality checks on the installation. Our team of dedicated technical managers are available as direct points of contact for site installation teams, with project designers also on hand to discuss any aspect without hesitation.

EOS Facades prides itself in having a fully inclusive service from conception to completion, ensuring simple and rapid construction of our load bearing structures.
PRE-START REQUIREMENTS

The following information may be taken as useful guidance on pre-start requirements for installers and main contractors. [Source: SCI technical Information Sheet ED029]

- The main contractor must be aware that the surface of the foundation slab, or support grid, must be constructed to accurate levels for the EOS load bearing structure [LBS].

- The foundation slab must be provided with gridlines to correct datum, as agreed between the site manager and the installer of the LBS.

- There should be no high-spots in the level of the slab/transfer structure and should be checked by an engineer. Minimal low-spots are overcome by the use of EOS supplied packing and shimming systems.

- The foundation slab or transfer structure and perimeter must be provided clear of materials, standing water and debris.

- Arrangements for site access, unloading and site egress should be agreed in advance between the main contractor, LBS installer, and EOS Facades. Any information regarding these elements must be provided to EOS Facades prior to start on site. Typical information requirements consist of but not restricted to:
  - Are there any delivery systems to book on to?
  - Are there any delivery time restrictions?
  - Can the site handle articulated wagons?
  - What lifting facilities are on site?
  - Precise address for wagon ingress.

- The delivery schedule and sequence of works should be agreed in advance by all parties.

- The contractor should ensure that there is a hardstanding area available for storage of EOS Facades materials during erection.

- Typically two lifts of scaffolding should be installed around the perimeter of the foundation slab or transfer structure, to enable safe installation / levelling of initial walls.

- Scaffolding should be set back the correct distance from the edge of the slab, completed to the agreed level and signed-off as ready for use.
LIFTING

Installation of EOS Facades load bearing frames may require use of a crane. Responsibility for provision of craneage should be agreed in advance and form part of the contract.

Taller multi-storey structures will require more extensive use of a crane. Best practice is to utilise the crane to lift, position, and hold the wall or floor element whilst it is propped or fixed into position.

The lifting plan, including crane set area, should be agreed in advance. The main contractor should ensure the crane set area is free from materials and debris.

EOS Facades will work with the installers and main contractor to accommodate lifting provision where possible.

SAFETY & RISK

The Safety Plan should be prepared by the main contractor with input from the frame installer.

A risk assessment and method statement should be produced that satisfies the requirements of the Construction Health & Safety Plan, as well as the Construction (Design & Management) Regulations [CDM2015]. These should be site and design specific and therefore should be developed for each individual project.

EOS endeavour to eliminate hazards throughout the design process, and will highlight risks where appropriate.

EDGE PROTECTION

In most cases, [external] edge protection should be provided by scaffolding around the perimeter of the building.

If scaffolding is not present, or part of the installation scope, then an alternative form of edge protection or installation methodology should be used. IMPORTANT: No edge protection should be fixed off the EOS Facades wall or floor frames.
WALL INSTALLATION

1) Ensure that the substrate is positioned correctly and provides full bearing support to all wall panels. **IMPORTANT:** EOS wall panels must have 100% bearing, with no overhang.

2) Make an assessment of slab tolerance and identify areas where packing may be required.

3) Offer up the first corner wall panel and fix to the substrate in accordance with the standard details and project specific drawings.

4) Align the panel and temporarily prop. Spare EOS sections or timber may be used. Temporary props should be installed at max. 3m centres along the walls.

5) Keep any factory installed door/window temporary braces in place until structure is fully erected as this aids with panel alignment at key areas, i.e. openings.

6) The next panel to be erected must be perpendicular in order to assist with initial stability and alignment. Proceed at either a corner or to an internal junction.

7) Offer up the next panel and fix to the substrate in accordance with the standard details and project specific drawings.

8) Fix the two panels at the intersecting ladder frame using the horizontal noggins built into the panel.

9) Keep temporary props in place until at least 3 sides of the local room and the floor have been erected.

10) Continue to erect the wall frames ensuring that adequate props are used as progression is made.

11) Floors may be begin to be installed once a room has had a minimum of 2 end walls and 1 side wall installed, giving flexibility to sequencing of works, i.e. multiple storeys may be erected before an entire floor is completed.
DESIGN TOLERANCES

- A +2mm tolerance gap between all EOS wall panels is included in the design.
- A +10mm tolerance gap (both ends) between EOS floors and walls is included in the design to allow for zed plate thickness, fixing heads and general alignment.
- Refer to the standard details for guidance.

INSTALLATION TOLERANCES

- Straightness of walls +/- 5mm (over any given 3m length)
- Verticality (plumbness) of wall +/- 5mm up to 3m height. H/600 for walls >3m.

SAFETY:

- 5 Point PPE is recommend (Hi-Vis, Safety Boots, Hard Hat, Gloves and Glasses).
- As panels are pre-assembled, cutting will be restricted to an absolute minimum (cross bracing, temporary props), however cutting should be conducted in a cordoned off area with appropriate cutting station.
FLOOR INSTALLATION

1) Ensure that at least 3 sides of local walls have been installed before lifting and offering up any floor elements.

3) Ensure that walls are aligned within tolerance and that sufficient propping is in place. Offer up the first floor element according to the agreed lifting procedure.

5) Continue to erect walls and install floor elements according to the sequence of works.

6) IMPORTANT: Safe working-at-height practices should be employed such as: fall arrest man-safe systems; crash decking / air bags; working from below; working off scaffold / podiums.

7) Optional pre-boarded EOS Floor cassettes offer a safe working platform (in conjunction with suitable edge protection) eliminating need to install flooring after the frame is erected.

8) Once a suitable amount of ground floor progress has been made, the first floor walls may begin to be erected.

RECOMMENDED SITE PRACTICE:

- Erect scaffold around perimeter of building to act as edge protection.
- Use crane to lift EOS wall panels and floor cassettes - working from below in all conditions.
- Use pre-boarded floors and fall arrest systems to avoid unsafe operations whilst floors are installed.
ANCILLARY INSTALLATION

1) BRACING: Prior to boarding ensure that all cross bracing elements are installed as indicated on the design specific drawings. Bracing may be formed by integral ‘K’ bracing panels; therefore will be installed during wall frame construction.

2) HEAVY DUTY ANCHORS: Along with the concrete base fixings at stud positions, areas of cross or ‘K’ bracing should be fixed down to the substrate using EOS supplied heavy duty anchor brackets. These must be placed at the studs which intersect with the ends of the bracing. Refer to standard details for more information.

NOTE: IN ALL CONDITIONS REFER TO THE PROJECT SPECIFIC DRAWINGS AND STANDARD DETAILS FOR DETAILS ON FULL FRAMING REQUIREMENTS.

FOLLOW ON TRADES

When the EOS frame has been sufficiently erected and the required bracing, anchors and any additional requirements have been installed, then the external sheathing board, insulation and cladding systems can be installed.

EOS Facades are part of ETEX Building Performance, a division of the ETEX Group. We combine the solutions of three prominent manufacturers and are uniquely placed to develop opportunities for innovative specifications to meet today’s challenging projects.

- Siniat | Drywall products to create systems for partitions, ceilings, wall linings and external sheathing purposes. Including the award-winning ‘Weather Defence’ board.

- Promat | Passive fire protection specialists with a complete portfolio of boards, sprays, sealants and adhesives to protect structural steel, concrete structures, partitions, wall linings, floors, ceilings and roofs.

- EOS Facades | Leading innovators in light gauge steel construction, EOS specialise in the design, manufacture and supply of a wide range of bespoke steel solutions for the SFS, Load-bearing, modular and offsite industry.
TOLERANCES

CONSTRUCTION: TOLERANCES BETWEEN FRAMES
E. -4mm / ±2mm. FRAMES ARE MANUFACTURED
AND ASSEMBLED TO ±0mm / ±2mm.

GENERAL NOTES

THIS DRAWING IS COPYRIGHT, DO NOT SCALE
THIS DRAWING. CONSTRUCTION MUST COMPLY
WITH ALL DIMENSIONS ON SITE. ONLY FIGURED
DIMENSIONS TO BE WORKED FROM. ALL BRACKETS
AND DISCARDS MUST BE IMMEDIATELY
REPORTED TO THE DESIGN OFFICE OF EOS
FACADES LTD.

Packers to be located beneath studs. Packing height not to exceed 10mm without the
introduction of a mortar bed. If packing exceeds 20mm, please consult EOS.

Depending on packing requirements, longer fixings may need to be specified to ensure
sufficient embedment.

TFLSPK89 OR TFLSPK 140

EOS frame securely fixed to concrete floor
using 1 No. EOS-1021 or similar approved
and 2 concrete to suit vertical studs.

For 100mm frames use the TFLS bracket in the
orientation as shown above with the TFLSPK89 packer
(85x60mm).

For 150mm frames use the TFLS bracket in the other
orientation with the TFLSPK140 packer (140x40mm)

For other wall depths, please consult EOS.

TYPICAL SECTION

NOTES

1. Fixing provided at every vertical stud location.

2. Base track to be laid on a mortar bed if the gap between the top of concrete and the base track
   exceeds 10mm. Maximum allowed packing is 20mm, consult EOS if the mortar bed packing exceeds 20mm.

3. Each frame to have pack 100mm from end of frame, except at corners

4. See fixing literature for tools required & installation method.

TYPICAL BASE FIXING DETAIL FOR WALL FRAMES

LOAD BEARING STRUCTURES: WALL FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-A001
Revision: -
Approved By: AH
Date: FEB 2018

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EOS wall frames securely fixed to concrete floor using 1 No. EOS-1021 or similar approved @ centres to suit vertical studs.

See below for corner packing arrangement.
Depending on packing requirements, longer fixings may need to be specified to ensure sufficient embedment.

**PLAN**

**NOTES**
1. Refer to typical base fixing details - see detail LBS-A001

**TYPICAL BASE CORNER FIXING FOR WALL FRAMES**

**LOAD BEARING STRUCTURES: WALL FRAMES**

Drawn By: EOS
Scale: NTS
Detail No: LBS-A002
Review: -
Approved By: AH
Date: FEB 2018
TYPICAL HEAD FIXING

Head rail fixed to vertical stud both sides using 5.5 x 19mm Tek screws (EOS-100) or similar approved.

TYPICAL NOGGIN FIXING

Horizontal member fixed to vertical stud both sides using 5.5 x 19mm Tek screws (EOS-100) or similar approved.

TYPICAL BASE FIXING

Base rail fixed to vertical stud both sides using 5.5 x 19mm Tek screws (EOS-100) or similar approved.
**TOLERANCES**

Construction: Tolerances between frames 0.5mm / -1mm. Frames are manufactured and assembled to ±1mm / -2mm.

**3D VIEW**

Wall Frame A and Wall Frame B are connected by a backing installed at the frame join.

**PLAN**

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed @ 600d/c's (vertical)

**GENERAL NOTES**

This drawing is copyright. Do not scale. This drawing is manufactured to our standard. All dimensions on site only and are for reference only. Dimensions to be worked from all bricks and discrepancies must be immediately reported to the design office of EOS Facades Ltd.
**TOLERANCES**

Construction tolerances between frames E-4mm / 0.2mm. Frames are manufactured and assembled to +0mm / -2mm.

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**GENERAL NOTES**

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**TYPICAL WALL FRAME CORNER FIXING DETAIL**

**LOAD BEARING STRUCTURES: WALL FRAMES**

**Elevation 1-1**

Ladder noggin required on corners to allow ease of double fixing. Extra stud also provides vertical fixing point for internal wall finishes.

**Plan**

Min. 200mm to allow install access (*) or stud punched with access hole.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed into corner stud and each ladder noggin @ 600 o/c’s.

---

**EXTERNAL ISOMETRIC**

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**DRAWN BY:**

**EOS**

**SCALE:**

**NTS**

**DETAIL NO.:**

**LBS-A005**

**REV.:**

**-**

**APPROVED BY:**

**AH**

**DATE:**

**FEB 2018**

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TOLERANCES

CONSTRUCTION TOLERANCES BETWEEN FRAMES
±3mm / ±2mm. FRAMES ARE FULLY ACTUATED
AND ASSEMBLED TO ±3mm / ±2mm.

GENERAL NOTES

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THIS DRAWING. CONSTRUCTION MUST UNEQUAL
ALL DIMENSIONS ON SITE. ONLY FIGURED
DIMENSIONS TO BE WORKED FROM. ALL ERRORS
AND DISCREPANCIES MUST BE IMMEDIATELY
REPORTED TO THE DESIGN OFFICE OF EOS
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Ladder noggin required on internal load
bearing wall junctions to allow ease of
double fixing. Stays provide vertical fixing
points for internal wall finishes.

LADDER FRAME
WITH HORIZONTAL
NOGGINS

ELEVATION 1-1

EXTERNAL ISOMETRIC

PLAN

2 No. 5.5 x 25mm Tek screws
(EOS-1002 or similar approved)
fixed into corner stud and to
each ladder noggin @ 600
vertical c/c’s.

Min. 300mm to allow install access
(*) stud punched with access holes

40mm TYP.

ELEVATION 1-1

LOAD BEARING STRUCTURES, WALL FRAMES

Drawn By: EOS

Scale: NTS

Detail No: LBS-A006

Revision: -

Approved By: AH

Date: FEB 2018

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TYPICAL WALL FRAME INTERSECTION FIXING DETAIL (AT PERPENDICULAR JUNCTION)
TOLERANCES
Construction tolerances between frames E=+0.5mm/-0mm. Frames are manufactured and assembled to +/-0mm.”

GENERAL NOTES
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EXTERNAL ISOMETRIC

NON-LOAD BEARING GTEC PARTITION (or similar approved)

GTEC Partition System (or similar approved) fixed to EOS Wall Frame according to manufacturer’s requirements.

Additional ECS Wall Frame Stud provided at internal partition positions.

TYPICAL LOAD BEARING WALL TO NON LOAD BEARING PARTITION DETAIL

LOAD BEARING STRUCTURES: WALL FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-A007
Revision: -
Approved By: AH
Date: FEB 2018

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EXTERNAL ISOMETRIC

(Ont ear only shown for carry)

Additional EOS Wall Frame Stud provided at Internal partition positions.

NON-LOAD BEARING
GTEC PARTITION
(or similar approved)

GTUC Partition System (or similar approved) fixed to EOS Wall Frame according to manufacturer's requirements.

Frames fixed at the head with a Simpson PWT200 party wall tie @ 1200mm max. horiz. c/c. Fixed with 2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) into each stud. If studs do not line up then fix into mid noggin restraint.

TYPICAL TWIN LEAF LOAD BEARING WALL TO NON-LOAD BEARING PARTITIONS DETAIL

LOAD BEARING STRUCTURES: WALL FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-A008
Revision: -
Approved By: AH
Date: FEB 2018
**TOLERANCES**

**GENERAL NOTES**

TOLERANCES BETWEEN FRAMES E - 4mm / - 3mm. FRAMES ARE MANUFACTURED AND ASSEMBLED TO ±0mm / ±2mm.

This drawing is copyright. Do not scale this drawing. Consult manufacturer for exact all dimensions on site. Only figured dimensions to be worked from. All balances and discrepancies must be immediately reported to the design office of EOS Facades Ltd.

2 No. 3.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed into corner stud and to each ladder noggin @ 600 vertical c/c's.

ECS WALL FRAME A

ECS WALL FRAME B

ECS WALL FRAME C

ECS WALL FRAME D

PLAN

Min. 300mm to allow install access (* or stud punched with access holes)

Frames fixed at the head with a Simpson PW7200 party wall tie @ 1200mm max horiz. c/c's.

Fixed with 2 No. 3.5 x 25mm Tek screws (EOS-1002 or similar approved) into each stud. If studs do not line up then fix into mid noggin restraint.

2 No. 3.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed into corner stud and each noggin @ 600 c/c's

ELEVATION 1-1

Ladder noggins required on corners to allow ease of double fixing. Form stud also provides vertical fixing point for internal wall finishes.

CORNER LADDER FRAME WITH 1 HORIZONTAL NOGGINS

TYPICAL SEPARATING WALL FRAME INTERSECTION FIXING DETAIL (AT PERPENDICULAR JUNCTION)

LOAD BEARING STRUCTURES: WALL FRAMES

Drawn By: EOS

Scale: NTS

Detail No: LBS-A009

Revision: -

Approved By: AH

Date: FEB 2018
**PRE-FIXED ZED PLATES**

**NOTE:** Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

1. No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/c's to be securely fixed through Zed into the head of the frame below.

2. No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Z plate into floor cassette at 600mm c/c's. NOTE: Z Plate pre-fixed to cassette prior to installation.

3. **Z plate support to engineer specification. Depth to suit joint cassette. Bearing width to suit wall frame thickness.**

Frames fixed at the head with a Simpson PWVT300 party wall tie @ 1000mm max between studs. Fixed with 2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) into each stud. If studs do not line up then fix into mid noggin restraint.

2 No. 5.5 x 50mm Tek screws (EOS-1004 or similar approved) fixed through Z plate into studs in each of the 4 corners of the floor cassette. NOTE: Fixed once cassette + Z plate are in position and aligned.

**Plasterboard finishes & insulation omitted for cavity.**

---

**NOTES**

1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames.

2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.

3. If difficulties are experienced drilling fixings through multiple layers of material, see Hilti SMD065GZ 5.5x40mm box head (EOS-1028) in lieu of EOS-1002/1004; and Hilti S-MD05WZ 5.5x40mm washer head in lieu of EOS-1065.

---

**TYPICAL PARTY WALL TO FLOOR CONNECTION (PRE-FIXED ZED PLATE)**

---

**SECTION**

---

**LOAD BEARING STRUCTURES: WALL FRAMES**

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<tr>
<th>Drawn By:</th>
<th>Detail No:</th>
<th>Revision:</th>
<th>Approved By:</th>
<th>Date:</th>
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<tr>
<td>EOS</td>
<td>LBS-A010</td>
<td>-</td>
<td>AH</td>
<td>FEB 2018</td>
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ZED PLATES SUPPLIED LOOSE

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm ctr's to be securely fixed through Zed into the head of the frame below.

2 No. 5.5 x 25mm Low Profile Tek screws (EOS-1005 or similar approved) fixed through underside of Z plate into bottom rail of each lattice.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Z plate into studs in each of the 4 corners of the floor cassette.

Plasterboard finishes & insulation omitted for clarity.

NOTES

1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z plate site fixed to wall before cassette offered up.

3. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S-MD05GZ 5.5x40mm hex head (EOS-1020) in lieu of EOS-1002/1004; and Hilti S-MD15SWZ 5.5x40mm washer head in lieu of EOS-1005.

SECTION

LOAD BEARING STRUCTURES: WALL FRAMES
ALL LOAD BEARING EOS WALL FRAMES REQUIRE STRUCTURAL SUPPORT BENEATH.

Full bearing required

2 No. 5.5 x 40mm Tek screws (EOS-10/20 or similar approximately @ 600mm c/c) to be securely fixed into the Hot Rolled Support grid.

EOS wall may sit atop suitable decking. Pilot Hole required through decking.

Max HR Flange Thickness = 15mm using EOS-10/20.

Hot Rolled support grid to be designed and supplied by others.

NOTE: ZED BAR DETAIL MAY BE EMPLOYED IF HOT ROLLED BEAMS ARE TREATED WITH INTUMESCENT PAINT. SPECIFIC DETAIL TO BE REVIEWED DUE TO LOADING REQUIREMENTS.
1. See Hilti (or similar approved fixing) literature for installation method of anchor fixings.
**ISOMETRIC**

16mm HILTI ANCHORS U.N.O.

**ELEVATION**

**PLAN**

**ADDITIONAL 6 No 5.5 x 25mm TEK SCREWS (EOS-1002 OR SIMILAR APPROVED) TO CONNECT BRACING TO LADDER NOGGIN**

**FIX BRACED FRAME TO BASE USING SIMPSON STRONG TIE HT5, FIXED TO SUBSTRATE USING 16mm HILTI ANCHORS U.N.O. AND FIXED TO STUD USING MIN. 6 No 5.5 x 25mm TEK SCREWS (EOS-1002 OR SIMILAR APPROVED) INTO VERTICAL STUD. AN ALTERNATIVE BRACKET WILL BE SPECIFIED FOR 65mm DEEP WALL FRAMES.**

**TYPICAL INTEGRAL 'K' BRACING CORNER BASE FIXING DETAIL**

**LOAD BEARING STRUCTURES: WALL FRAMES**

**GENERAL NOTES**

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EXTERNAL ISOMETRIC

NOTES
1. Bracing fixed to external side

5.5 x 25mm Tek Screws (EOS-1005 or similar approved) to fix ends of bracing to walls at stud position.

NOTE: Quantity to be determined by EOS Engineer.

NOTE: Use Wafer Head Fixings

2 No. 5.5 x 25mm Tek Screws (EOS-1005 or similar approved) at each intermediate contact between stud and brace.

NOTE: Use wafer head fixings.

Flat strap bracing, supplied by EOS

5.5 x 25mm Tek Screws (EOS-1005 or similar approved) to fix ends of bracing to walls at stud position.

NOTE: Quantity to be determined by EOS Engineer.

NOTE: Use Wafer Head Fixings

SEE DETAILS LBS-A013 & A014 FOR PRE-ASSEMBLED 'K' BRACING ALTERNATIVE TO SITE FIXED CROSS BRACING

TYPICAL FLAT STRAP BRACING TO LOAD BEARING WALLS DETAIL

LOAD BEARING STRUCTURES: WALL FRAMES

Drawn By: EOS
Scale: NTS
Detail No.: LBS-A015
Revision: -
Approved By: AH
Date: FEB 2018
TOLERANCES
CONSTRUCTION TOLERANCES BETWEEN FRAMES 8mm / 12mm. FRAMES ARE MANUFACTURED AND ASSEMBLED TO 10mm / 2mm.

GENERAL NOTES
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Lattice lintel fixed to jamb stud using pairs of 5.5 x 25mm Tek Screws (EOS-1002 or similar approved).

NOTE Min. 2 No. pairs (top and bottom)

FOR LATTICE LINTELS 4x400mm
Lattice lintel fixed to bearing pinch using 2 No. 5.5 x 25mm Tek Screws (EOS-1002 or similar approved).

Lattice depth to suit height between window head and floor / roof above.

Double Jamb Stud
Noggins pre-fixed to Double stud using 4 No. 5.5 x 25mm Tek Screws (EOS-1001 or similar approved).

* DS Wridges:
65mm / 100mm / 150mm Frames = 100mm
200mm / 250mm frames = 150mm

Lattice Lintel Height: 2x400mm

Lattice Lintel Height: <400mm

** Typical Lattice Lintel **

LOAD BEARING STRUCTURES: WALL FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-A016
Revision: -
Approved By: AH
Date: FEB 2018
**PRE-FIXED ZED PLATES**

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/c's to be securely fixed through the zed plate into the head of the frame below.

2 No. 5.5 x 50mm Tek screws (EOS-1004 or similar approved) fixed through Z plate into studs in each of the 4 corners of the basics floor cassette.

NOTE: Fixed once cassette + Z plate are in position and aligned.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Z plate into floor cassette at 600mm c/c's.

NOTE: Z Plate Pre-fixed to cassette prior to installation.

10mm tack

100mm Bearing

Z plate support to engineer specification. Depth to C Section cassette. Bearing width to suit wall frame thickness.

---

**NOTES**

1. All EOS floor cassettes are manufactured with 10mm tolerance between each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.

3. If difficulties are experienced drilling fixings through multiple layers of material use Hilti S-MDI5GZ.5.5x40mm box head (EOS-1020) in lieu of EOS-1002/1004; and Hilti S-MDI5WZ.5.5x40mm wafer head in lieu of EOS-1065.

---

**SECTION**

Plasterboard finishes, insulation & external cladding omitted for clarity.

---

**EXTERNAL WALL TO PRE-ASSEMBLED C SECTION FLOOR CASSETTE (PRE-FIXED ZED PLATE)**

---

**LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES**

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<td>N1S</td>
<td>LBS-8001</td>
<td>-</td>
<td>AH</td>
<td>FEB 2018</td>
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PRE-FIXED ZED PLATES

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/d to be securely fixed through the zed plate into the head of the frame below.

2 No. 5.5 x 50mm Tek screws (EOS-1004 or similar approved) fixed through Z plate into floor cassette at 400mm c/d.

NOTE: Use 3 No. fixings in the end lattices of the cassette.

NOTE: Z Plate pre-fixed to cassette prior to installation.

2 No. 5.5 x 25mm Tek screws fixed through Z plate into floor cassette at 400mm c/d.

NOTES

1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.

3. If difficulties are experienced drilling fixings through multiple layers of material, use Hitit S-MD05GZ 5.5x40mm hex head (EOS-1 U20) in lieu of EOS-1002/1004; and Hitit S-MD05WZ 5.5x40mm washer head in lieu of EOS-1005.

Plasterboard finishes, insulation & external cladding omitted for clarity.

EXTERNAL WALL TO PRE-ASSEMBLED LATTICE FLOOR CASSETTE (PRE-FIXED ZED PLATE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-B002
Revision: -
Approved By: AH
Date: FEB 2018

Plasterboard finishes, insulation & external cladding omitted for clarity.
PRE-FIXED ZED PLATES

TOLERANCES
CONSTRUCTION TOLERANCES BETWEEN FRAMES
E: ±5mm / ±2mm. FRAMES ARE MANUFACTURED
AND ASSEMBLED TO ±5mm / ±2mm.

FOR FLOOR BOARDED OPTIONS
SEE DETAILS LBS 600X & 600B

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DIMENSIONS TO BE WORKED FROM. ALL FRAMES
AND DIMENSIONS MUST BE IMMEDIATELY
REPORTED TO THE DESIGN OFFICE OF EOS
FACADES LTD.

NOTE: Appropriate bonding and rubber
membranes (or similar) may be required for
waterproofing & acoustic testing at interface.
Please check with the architectural
specification regarding species.

2 No. 5.5 x 25mm Tek screws (EOS-002 or
similar approved) @ 600mm c/c's to be
securely fixed through the zed plate into the
head of the frame below.

2 No. 5.5 x 25mm Tek screws (EOS-002 or
similar approved) fixed through Z plate into
floor cassette at 600mm c/c's.

NOTE: Use 3 No. fixings in the end laticecs of
the cassette.

NOTE: Z Plate Pre-fixed to cassette prior to
installation.

NOTE Z Plate Pre-fixed to cassette prior to
installation.

EOS C-SECTION CASSETTE

Z plate support to engineer
specification. Depth to C-Section
cassette; Bearing width to suit wall
frame thickness.

2 No. 5.5 x 30mm Tek screws
(EOS-1004 or similar approved)
fixed through Z plate into studs
in each of the 4 corners of the
lattice floor cassette.

NOTE: fixed once cassette + Z
plate are in position and aligned.

Z plate support to engineer
specification. Depth to suit depth
Bearing width to suit wall frame
thickness.

NOTES
1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames
to allow for zed plate thickness, fixing heads and general alignment tolerances.
2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.
3. Also applicable to either: a) C-Section cassettes both sides; or b) Lattice cassettes both sides.
4. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S-MD65GZ 5.5x40mm hex head (EOS-1020) in lieu
of EOS-1002/1004; and Hilti S-MD65WZ 5.5x40mm washer head in lieu of EOS-1005.

SECTION

100mm Bearing

100mm Bearing

10mm tol.

10mm tol.

Plasterboard finishes, insulation &
external cladding omitted for clarity.

INTERNAL LOAD BEARING WALL TO PRE-ASSEMBLED FLOOR CASSETTES (PRE-FIXED ZED PLATE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-B003
Revision: -
Approved By: AH
Date: FEB 2018

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**PRE-FIXED ZED PLATES**

*NOTE:* Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

3 No. 5.5 x 50mm Tek screws (EOS-1006 or similar approved) @ 600mm c/c's to be securely fixed through the OSB into the head of the frame below. Note: pilot hole required to prevent burn out of tek screws.

**FLOOR / ROOF ELEMENTS SHOWN INDICATIVELY, FOR FLOOR / ROOF INTERFACE ARRANGEMENTS, PLEASE REFER TO DETAILS LBS-8001 to LBS-8003**

**SECTION**

**NOTES**

1. All EOS floor elements are manufactured with 10mm tolerance each and between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.

3. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S MD65GZ 5.5x40mm hex head (EOS-100) in lieu of EOS-1002/1004; and Hilti S-MD65WZ 5.5x40mm wafer head in lieu of EOS-1005.

**TYPICAL BOARDING DETAIL (PRE-FIXED ZED PLATE)**

**LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES**

**Drawn By:**
EOSS

**Scale:**
NTS

**Detail No.:**
LBS-8004

**Revision:**
-

**Approved By:**
AH

**Date:**
FEB 2018

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ZED PLATES SUPPLIED LOOSE

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/c's to be securely fixed through the zed plate into the head of the frame below.

2 No. 5.5 x 25mm Low profile Tek screws (EOS-1005 or similar approved) fixed through undersides of Z plate into bottom rail of each lattice.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Z plate into studs in each of the 4 corners of the lattice floor cassette.

NOTE: Fixed once cassette + Z plate are in position and aligned.

Z plate support to engineer specification. Depth to C-Section cassette. Bearing width to suit wall frame thickness.

NOTES

1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing tolerances and general alignment tolerance.

2. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S-MD65GZ 5.5x40mm hex head (EOS-1025) in lieu of EOS-1002/1004; and Hilti S-MD65WZ 5.5x40mm washer head in lieu of EOS-1005.
ZED PLATES
SUPPLIED LOOSE

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/c’s to be securely fixed through the zed plate into the head of the frame below.

4 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Simpson SB10/100 brackets. Each lattice beam to have 2 brackets each end bracket fixed to each vertical face.

2 No. 5.5 x 25mm Low Profile Tek screws (EOS-1005 or similar approved) fixed through underside of Z plate into bottom rail of each lattice.

Z plate fixed to each vertical end using 1 No. 5.5 x 25mm Tek screw (EOS-1002 or similar approved) prior to installation of Lattice beams.

Z plate support to engineer specification. Depth to suit lattices. Bearing width to suit wall frame thickness.

NOTES

1. All EOS floor lattices are manufactured with 10mm tolerance each end between the floor/wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate sites fixed to wall first. Individual lattices then installed, not contained in a cassette.

3. If difficulties are experienced drilling fixings through multiple layers of material use Hilti S-MD65GG7 5.5x40mm box head (EOS-1005) in lieu of EOS-1002/1004 and Hilti S-MD65WZ 5.5x40mm washer head in lieu of EOS-1005.

EXTERNAL WALL TO INDIVIDUAL LATTICE FLOOR (ZED PLATE SUPPLIED LOOSE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-8006
Review: -
Approved By: AH
Date: FEB 2018

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STANDARD DETAILS
ZED PLATES
SUPPLIED LOOSE

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 300mm c/c's to be securely fixed through the zed plate into the head of the frame below.

IMPORTANT: USE FIXINGS AT 300mm c/c's, WHEN ZED PLATES SHARE WALL HEAD.

2 No. 5.5 x 25mm Low Profile Tek screws (EOS-1005 or similar approved) fixed through underside of 7 plate into bottom rail of each lattice.

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for wall / floor sandwich at head face. Please check with the architectural specification regarding species.

4 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Simpson FS1040 bracket. Each lattice beam to have 2 brackets each end, 1 bracket fixed to each vertical face.

7 plate fixed to each vertical end using 1 No. 5.5 x 25mm Tek screw (EOS-1002 or similar approved) prior to installation of Lattices beams.

Z plate support to engineer specification. Depth to suit C-Section cassette. Bearing rails to suit wall frame thickness.

NOTES

1. All EOS floor lattices are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plates site fixed to wall first, cassette / lattices then installed.

3. Also applicable to either: a) C-Section cassette both sides; or b) Lattice cassette both sides.

4. If difficulties are experienced drilling fixings through multiple layers of material, use Hihi S-MD05GZ 5.5x40mm hex head (EOS-1028) in lieu of EOS-1002/1004; and Hihi S-MD05WZ 5.5x40mm washer head in lieu of EOS-1005.

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: N1/5
Detail No: LBS-8007
Revision: -
Approved By: AH
Date: FEB 2018

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ZED PLATES SUPPLIED LOOSE

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/c to be securely fixed through the zed plate into the head of the frame below.

NOTE: This detail shows general boarding interface applicable to the following:
- Pre-boarded C-section cassettes (where zeds supplied loose, no thermal break)
- No pre-boarding to C-section cassettes (where zeds supplied loose, no thermal break)
- Individual lattice (Note: cannot be pre-boarded, & where no thermal break is required)

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

FLOOR / ROOF ELEMENTS SHOWN INDICATIVELY FOR FLOOR / ROOF INTERFACE ARRANGEMENTS, PLEASE REFER TO DETAILS LDS-005 TO LDS-007

NOTES

1. All EOS floor elements are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z-Plates site fixed to wall first, cassettes / lattises then installed.

3. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S-MD65GZ 5.5x40mm hex head (EOS-1020) in lieu of EOS-1062/1064; and Hilti S-MD85WZ 5.5x40mm water head in lieu of EOS-1065.

TYPICAL BOARDING DETAIL (ZED PLATES SUPPLIED LOOSE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES
INTERNAL ISOMETRIC

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) @ 600mm c/c's to be securely fixed through the 2nd plate into the head of the frame below.

2 No. 5.5 x 50mm Tek screws (EOS-1004 or similar approved) fixed through end (but not into the head) to provide lateral support to the load bearing structure.

SEE DETAIL A

NOTES

1. All EOS floor cassettes are manufactured with 10mm tolerance on each side between the floor/wall frames to allow for 2nd plate thickness, fixing heads and general alignment tolerances.

2. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S-MD05GZ 5.5x40mm hex head (EOS-1020) in lieu of EOS-1002/1004; and Hilti S-MD05VZ 5.5x40mm wafer head in lieu of EOS-1005.

FOR PRE-BOARDED OPTIONS SEE DETAILS LBS-B004 & B008

Plasterboard finishes, insulation & external cladding omitted for clarity.
Simpson ES10/40 Bracket at maximum 1.200mm c/c fixed into lattice with 2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) and fixed into vertical stud with 4 No. 5.5 x 25mm Tek Screws (EOS-1002 or similar approved).

Plasterboard finishes, insulation & external cladding omitted for clarity.
Box noggins fixed to Lattices using 4 No. Simpson ES10/40 brackets per noggins (1 No. each end, both sides), fixed with 2 No. 5.5 x 25mm Tek screws (EOS-I-002 or similar approved) in each leg of the bracket.

ELEVATION 1-1

2 No. 5.5 x 25mm Tek screws (EOS-I-002 or similar approved) fixed through head of frame into bottom rail of each lattice.

2 No. 5.5 x 25mm Tek screws (EOS-I-002 or similar approved) fixed through head of frame into bottom rail of each lattice.

SECTION

Plasterboard finishes, insulation & external cladding omitted for clarity.

FOR FLOOR BOARDED OPTIONS
SEE DETAIL SLR2004 & ROOF

INTERMEDIATE LOAD BEARING WALL SUPPORT TO OVERSAILING LATTICE FLOOR

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: N/S
Detail No: LBS-8011

Approved By: AH
Date: FEB 2018
**TOLERANCES**

CONSTRUCTION TOLERANCES BETWEEN FRAMES 8 ±3mm / ±0.3mm. FRAMES ARE MANUFACTURED AND ASSEMBLED TO ±0.3mm ±0.3mm.

FOR FLOOR BOARDED OPTIONS SEE DETAILS LBS-3004 & B008

**GENERAL NOTES**

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 THE DRAWING, CONTRACTOR'S MUST CHECK 
 ALL DIMENSIONS ON SITE, ONLY FIGURED 
 DIMENSIONS TO BE WORKED FROM. ALL ERRORS 
 AND OMISSIONS MUST BE REPORTED TO THE DESIGN OFFICE OF EOS 
 FACADES LTD.

**PLAN**

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**NOTES**

1. For alternative SVP arrangements, please consult EOS.

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**TYPICAL CORNER SERVICE RISER DETAIL THROUGH C-SECTION FLOOR CASSETTE (160mm dia. SVP)**

**LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES**
PRE-FIXED ZED PLATES

2 No. 5.5 x 25mm Low Prolift Tek screws (EOS 1005 or similar approved) @ 400mm c/c's to be securely fixed through the Zed plate into the head of the frame below.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Z plate into C-Section floor cassette at 400mm c/c's. NOTE: Z Plate Pre-fixed to cassette prior to installation.

2 No. 5.5 x 50mm Tek screws (EOS-1004 or similar approved) fixed through Z plate into studs in each of the 4 corners of the floor cassette. NOTE: Fixed once cassette & Z plate are in position and aligned.

Plasterboard finishes, insulation & external cladding omitted for clarity.

NOTES

1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.

3. If difficulties are experienced drilling fixings through multiple layers of material, use Hitit S-MD05GZ 5.5x40mm box head (EOS-1020) in lieu of EOS-1002/1004; and Hitit S-MD05WZ 5.5x40mm washer head in lieu of EOS-1005.

SECTION

EXTERNAL WALL TO PRE-ASSEMBLED C-SECTION ROOF CASSETTE (PRE-FIXED ZED PLATE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: NTS
Detail No: LBS-BO14
Revision: -
Approved By: AH
Date: FEB 2018

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PRE-FIXED ZED PLATES

NOTE: Appropriate boarding and rubber membranes (or similar) may be required for sufficient fire/acoustic rating at interface. Please check with the architectural specification regarding specifics.

2 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Z plate into floor cassette at 600mm c/c.

NOTE: Use 3 No. fixings in the end lattices of the cassette.

NOTE: Z Plate Pre-fixed to cassette prior to installation.

Third fixing only in end (last) lattices within cassette.

NOTES

1. All EOS floor cassettes are manufactured with 10mm tolerance each end between the floor / wall frames to allow for zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate pre-fixed to floor cassettes prior to lifting / installation.

3. If difficulties are experienced drilling fixings through multiple layers of material see Hilti S-MD05GZ 5.5x40mm hex head (EOS-1076) in lieu of EOS-1002/1004; and Hilti S-MD02WZ 5.5x40mm wafer head in lieu of EOS-1065.

EXTERNAL WALL TO PRE-ASSEMBLED LATTICE ROOF CASSETTE (PRE FIXED ZED PLATE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: N15
Detail No: LBS-8015
Revision: -
Approved By: AH
Date: FEB 2018

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ZED PLATES SUPPLIED LOOSE

TOLERANCES
CONSTRUCTION: TOLERANCES BETWEEN FRAMES & 4mm / 2mm. FRAMES ARE MANUFACTURED AND ASSEMBLED TO -6mm / 2mm.

FOR FLOOR BOARDED OPTIONS
SEE DETAILS LBS-1004 & 1005

2 No. 5.5 x 25mm Low profile Tek screws (EOS-1002 or similar approved) @ 600mm c/c to be securely fixed through the Zed plate into the head of the frame below.

Z plate fixed to each vertical stud using 2 No. 5.5 x 25mm Tek screw (EOS-1002 or similar approved) prior to installation of Lattice beams.

Z plate support to engineer specification. Depth to suit lattices. Bearing width to suit wall frame thickness.

4 No. 5.5 x 25mm Tek screws (EOS-1002 or similar approved) fixed through Simpson E510/40 brackets. Each lattice beam to have 2 brackets each end, 1 bracket next to each vertical face.

2 No. 5.5 x 25mm Low Profile Tek screws (EOS-1003 or similar approved) fixed through undertacks of Z plate into bottom rail of each lattice.

NOTES
Appropriate boarding and rubber membranes (or similar) may be required for sufficient finish work, finishing at 45° face.
Please check with the architectural specification regarding specifics.

SECTION

1. All EOS floor lattices are manufactured with 10mm tolerance each end between the floor / wall frames to allow for Zed plate thickness, fixing heads and general alignment tolerances.

2. Z Plate site fixed to wall. Individual lattices installed, not contained in a cassette.

3. If difficulties are experienced drilling fixings through multiple layers of material, use Hilti S-MD05GZ 5.5x40mm hex head (EOS-1002) in lieu of EOS-1002/1004; and Hilti S-MD05YWZ 5.5x40mm washer head in lieu of EOS-1005.

EXTERNAL WALL TO INDIVIDUAL LATTICE ROOF (ZED PLATE SUPPLIED LOOSE)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS
Scale: NTS
Detail No.: LBS-B016

Rev.: AH
Appr. By: FEB 2018

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For floor board up runs
See details LBS-5004 & B008

Lattice beams manufactured with vertical
缀条或支撑点

4 No. 5.5 x 25mm Tek screws
(EOS-1002 or similar
approved) fixed through
Simpson ES/10/40 bracket.
Each lattice beam to have 2
brackets, 1 bracket fixed to
each vertical face.

1 No. 5.5 x 25mm Tek screw (EOS-1002 or similar
approved) fixed through head rail of wall frame into
bottom rail of each lattice beam.

LATTICE OVER-HANG
(Max. overhang to be determined by EOS)

Plasterboard finishes, insulation &
external cladding omitted for clarity.

SECTION

EXTERNAL WALL TO ROOF LATTICE (OVERHANGING EAVES)

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By:
EOS
Scale:
NTS
Detail No.:
LBS-B017
Revision:
-
Approved By:
AH
Date:
FEB 2018

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1. Additional holding down straps and truss clips may be required to suit roof design (by others).

Plasterboard finishes, insulation & wall cladding omitted for clarity.
EXTERNAL ISOMETRIC

NOTES
1. Bracing fixed to external side
2. Only applicable to frames supplied without pre-boarded OSB
NOTES

1. Additional angles or restrains to pick up board edges to be supplied and fitted by installer, in accordance with board manufacturer’s requirements

2. Boarding assumed to be 22mm thick OSB/3 structural board

LOAD BEARING STRUCTURES: FLOOR / ROOF FRAMES

Drawn By: EOS  
Scale: NTS  
Detail No: LBS-8020  
Revision: -  
Approved By: AH  
Date: FEB 2018

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<th>PART #</th>
<th>APPLICATION</th>
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<th>PRODUCT TYPE</th>
<th>SUPPLIER</th>
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<td>EOS-1001</td>
<td>FACTORY FIXING FRAME-TO-FRAME</td>
<td>5.5x19mm</td>
<td>PAN HEAD #2 LOX DRIVE</td>
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<td>EOS-1002</td>
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<td>EOS-1003</td>
<td>SITE FIXING FRAME-TO-SLOTTED CONNECTION</td>
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<td>HEX HEAD (LARGE WASHER) SELF DRILL S-MD03Z</td>
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<td>EOS-1004</td>
<td>SITE FIXING FRAME THROUGH FLOOR</td>
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<td>SITE FIXING WIND POST TO CONCRETE</td>
<td>10x100mm</td>
<td>HEX HEAD SCREW ANCHOR HUS3-H (10mm Ø)</td>
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<td>EOS-1007</td>
<td>SITE FIXING SIMPSON BRACKETS TO CONCRETE</td>
<td>6.4x45mm</td>
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<td>SITE FIXING FRAME TO BLOCKWORK</td>
<td>7.5x72mm</td>
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**NOTES:**
1. USE 6mm HEX SOCKET FOR EOS-1002, 1003, 1004, 1007 & 1020
2. USE 9.53 BIT HUS650-1008
3. USE 4.8mm DRILL BIT DIA FOR EOS-1007
4. REFER TO PROJECT SPECIFIC DRAWINGS FOR DETAILS OF NON-STANDARD FIXINGS. ALWAYS FOLLOW THE MANUFACTURER'S TECHNICAL GUIDANCE.
IF IN DOUBT...
STOP AND CONSULT!

For detailed up to date information, to book a CPD session or to arrange a meeting please contact:

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