Centurion Interiors Partition Systems

Demountable Partitions Glass Partitions Acoustic Glass Doors Timber Doors Bespoke Solutions



Installation Guide

System 3000





Cut the head channel (PT3443) and steel track as necessary. Ensuring that the steel track is positioned within the head channel to abut adjoining lengths.

Drill fixing clearance holes through both sections along the centre-line positioned max. 150mm from each end and at max. 600mm centres and fix it to the soffit using suitable fixings.

Note: Where acoustic performance is a requirement, sealant should be applied to the back of the head channel (PT3443) prior to fixing.



Using a plumb line from the head track (PT3443), mark the position required for the steel floor track. Cut track to the required lengths and fix to the floor with suitable fixings positioned max. 150mm from each end and at max. 600mm centres.

Note: If door frames are required, scan QR code for setting out information.



SOLID - STE



3a

STEP

SOLID -



Cut the studs to length and clip them into their approximate position by twisting them into the head and floor track, with all studs facing in the same direction.

Check that all studs are plumb in both vertical planes and adjust the setting out as necessary. Studs should be now set out at 600mm centres.



NDI TRULINE systems

For partitioning incorporating glazing, please now jump to Step 1b



Measure the height from within the head channel to the floor at the first and third studs to obtain the board height and cut first sheet of plasterboard to suit.

The board is now offered into position, by lifting up into the head channel and pushing the bottom towards the stud framework.

Check that the board edges are plumb and are on the stud centrelines. Once checked, fix boards into position with 25mm drywall screws at max. 300mm vertical centres along both edges and to the centre stud.

Note: Where acoustic performance is a requirement, the insulation slabs are now fitted between the studs behind the first board.

SOLID - STEP 4a

Rev: 02

This procedure continues with vertical board joints tightly butted, and staggered between faces until the partition is fully boarded.

5a

Ω Ш

Т С



Using square edge plasterboard with aluminium cover trim:

- Cut the clamping strip (PT1055) to length, and fix at 300mm centres over the board joints.
- The selected decorative finish is now applied to the plasterboard.
- Cut skirting to length and fix.
- Aluminium cover trims are now cut to size and clipped to the clamping strip.

Using tapered edge plasterboard for flush filled joints:

- The board joints are taped and filled and the screws at the board centre are filled, then all are sanded smooth when set. The selected decorative finish is applied to the plasterboard.
- Cut skirting to length and fix.



Ensure that you have complete steps 1a to 3a.

Check the size and position of the glazing units from the partition layout.



ING

Boxed stud

Stud boxing requirements:

NFR Part glazed Box to sufficient height to allow the transom to be fixed.

NFR Glazed floor to ceiling Fully boxed studs.

30/0 Part glazed Fully boxed studs.

30/0 Glazed floor to ceiling Fully boxed studs.

NDI TRULINE systems Rev: 02

Ensure the stud transoms overall length is correct to suit the glazing frame and position the second stud. Transom lengths:

- Non wrap window frames: O/A frame width 28mm
- Wrap window frames: O/A frame width 16mm

If the glazing extends to the partition head, a length of stud should be cut and clipped into the head track to form a box for the full extent of the opening.

Insert the stud transom brackets (PTSTS50R) into the ends of the stud transom.

Offer transom into position, set height and fix into place. (Height of the transom to suit the required elevation).

Fully glazed & glazed to door head

- Three short pieces of stud are cut approx. 95mm long, to fit between the floor track and the transom.
- These are positioned one at each end of the transom, and the other at the centre.
- The return on the legs of the transom will need to be flattened to accept the intermediate studs.



• One stud is cut to fit between the floor track and the transom for the centre of the module, and the transom can be loosely fixed.

Unpack and assemble the frame by driving the screws through the pre-drilled holes in the horizontal sections, into the screw ports in the vertical sections.

> The glazing frame is positioned on top of the transom and all fixings are secured. The second stud is pushed firmly against the glazing frame.

> > For mid glazed or glazed to door head, a second transom is fixed directly on top of the glazing frame and an intermediate stud fitted.



www.trulinesystems.co.uk



The procedure in step 3b is repeated along the partition run taking into consideration the

Plasterboard fillets are fixed over the stud faces on vertical mullions and within the head track, along the partition run:

Non-wrap around window frames: 20mm wide

Wrap around window frames: 35mm wide

Plasterboard for solid panels above / below the glazing frames should be carefully measured, cut, slid into position, and fixed with drywall screws. Installing acoustic partition quilt in the process if required.



www.trulinesystems.co.uk

technical@trulinesystems.co.uk





Installation of glazing sections – non fire rated

Square cut the glazing chair and fit first to the horizontal framing sections (red arrows), and then to the vertical sections (blue arrows) which are neatly cut to fit between the horizontal sections.

The glazing beads are then cut and fitted in the same manner, continuing until the partition is completed.

Note: For single glazed, the beads should always be fitted to the inside of any office.

Installation of glazing sections – ½ hour fire rated

Single centre glazed

- 4 white self-adhesive PVC glass packers are positioned in the bottom section of the glazing frame, on the 'T' at the centre of the profile. One 100mm from each end and the others are equally spaced between.
- The steel glazing liners are cut to length and fitted, overlapping at the corners, with screws at max. 300mm centres for both sides of the glass.
- The PVC glazing beads are cut to size and fitted (horizontals first, followed by the verticals, which are neatly cut to fit between the horizontal sections).

<u>Note:</u> The beads and liners for one side are subsequently removed for the installation of the glass and then refitted.

Single offset glazed and double glazed

- The self-adhesive glazing wedge is cut to length and applied to the inner wall of the glazing section.
- The outer steel liner is cut and positioned tight against the glazing wedge, then fixed in position with screws through all the pre-pierced round holes.
- The inner steel liner is cut (ensure that the outer and inner liners are cut so that the pre-pierced holes still align), and positioned to accommodate the glass and loosely screwed.
- For offset glazing, the glazing section is cut to size and fitted (horizontals first, followed by the verticals, which are neatly cut to fit between the horizontal sections).
- For double glazing, the glazing section is cut and fitted (horizontals first, followed by the verticals, then the glazing beads are cut and fitted for the sacrificial pane).

<u>Note:</u> It should be ensured that the glazing wedge and the steel liners are installed towards the face of the partition on the protected side (for instance the corridor side).

To determine the vertical stud lengths, measure the distance between the inside of the head and floor track, then deduct 10mm from this dimension.

Cut the studs to length, box them together and infill with full height softwood stud infill. Ensuring the ends offset in order that only one engages within both the head or floor track.

Clip the studs with infills into their approximate position by twisting them into the head and floor track.

Check that the studs are plumb in both vertical planes and adjust the setting out as necessary. The stud is now fixed in place by snipping the sides of the head track and bending them inwards at either side of the stud, at the base they are fixed in place with wafer head screws through the wall of the floor track.





Rev: 02



With the transom brackets (PTSTS50R) facing upwards, the transom is screwed in position ensuring it is level.

NDI TRULINE systems

Note: For all doors other than 1981 x 838mm and 2040 x 826mm the transom should also have the softwood stud infill fitted.

Any surrounding solid panels are constructed, or glazed panels installed with plasterboard fillets covering any exposed stud faces adjoining the door frame.

Doors with solid panels above:

Plasterboard is measured and accurately cut to size. The panel is positioned and is fixed in place with drywall screws.

If the height above the door exceeds 500mm, or the width exceeds 900mm an intermediate stud should be used.

Doors with glazed panels above:

If the glazing extends to the partition head a length of stud should be cut and clipped into the head track to form a box for the full extent of the opening.

Using the screws provided assemble the frame by driving the screws through the pre-drilled holes in the horizontal sections, into the screw ports in the vertical sections.





On the stud for the lock side of the door frame carefully mark and notch out to accept the lock box.









The four steel mitre cleats are fitted into the door frame head and it is fitted into the prepared opening underneath the transom.

Secure into place through the pre-drilled holes using the 38 x 4mm self-tapping screws provided in the door frame pack.



Offer the prepared door frame stile up towards the head at an angle of approximately 30°, locating the mitre cleats in their slots and pushing it upwards and back to wrap over the stud and board adjoining the opening.

Lever the door frame stile up with a bolster to ensure the mitre joint is fully closed, then after checking that it is plumb, fix it in position through the pre-drilled holes with the 38 x 4mm self-tapping screws provided in the door frame pack.

Repeat for the other door frame stile, and then finally check the inner faces are parallel.



The door frame seal can now be neatly cut to fit within the frame recess and clipped into position.

FRAME - STEP 7c

The lock keep is fitted into the machined recess in the frame stile and fixed in place with two screws.

The hinges are located in the machined recesses in the frame stile and secured in place with the machine screws provided in the door frame pack (one machine screw per hinge).

When the door is hung two further fixings are made for each hinge using the 38 x 4mm selftapping screws provided in the door frame pack.



<u>Note:</u> The door frame install is now complete, and ready for the door to be hung. This is normally carried out at the later stages of the completion to prevent damage occurring to the door leaf.

Please scan the relevant QR code below for specific System 3000 documentation.



System 3000 Design Guide



Partitioning Systems O&M



Doors O&M



Partitioning Safety Data & COSHH



Doors Safety Data & COSHH



If you have any questions regarding this installation guide or require further assistance, please contact Truline Systems technical team.

Contact Us:

Birmingham

NDI, Meridian Way Core 42 Logistics Park Watling Street Tamworth B78 ITX

T: 01213 522 460 **E:** birmingham@ndi.co.uk

London

NDI, Unit 18, IO Centre Kimpton Park Way Sutton SM3 9BW

T: 020 8254 2380 **E:** london@ndi.co.uk

Maidstone

NDI, Loc8, Unit 12 Maidstone ME17 1XG

T: 01622 790 622 E: maidstone@ndi.co.uk

Milton Keynes

NDI, Unit 2, Bilton Road Denby East Bletchley MK1 1HW

T: 01908 640 634 E: milton.keynes@ndi.co.uk

Newport

NDI, Unit 4 Tregwilym Road Rogerstone Newport NP10 9DQ

T: 01633 898 340 **E:** newport@ndi.co.uk

Newton-Le-Willows

NDI, Unit 7 Anglezarke Road Newton Le Willows WA12 8DJ

T: 01925 220 827 E: newtonsales@ndi.co.uk

Poole

NDI, Albany House Elliot Road Poole BH11 8JH

T: 01202 576 006 E: poole@ndi.co.uk

ndi.co.uk

Disclaimer

IT IS IMPORTANT THAT YOU READ AND UNDERSTAND THIS STATEMENT BEFORE MAKING USE OF THIS DOCUMENT.

This document is published by Truline Systems. The information contained within this publication is for general information purposes only. The publication has not been prepared to meet the individual requirements of any particular construction project and it is your responsibility to ensure that the construction materials, techniques and processes are suitable for that particular use.

The information contained within this publication is not intended to amount to, nor should it be relied upon as, formal advice or guidance (including from any qualified professional).

The information provided is only to be used and acted on by, or under the supervision of suitably qualified individuals and is correct at the time of going to press. However Truline Systems reserves the right to amend specifications without prior notification in accordance with our policy of continuous development. The information in this publication is not to be used as a substitute for obtaining suitable independent, professional, qualified and/or specialist advice. If you are not a suitably qualified professional, you must obtain your own independent, specialist advice from a relevant qualified professional for any construction project.

Truline Systems shall not be liable for any loss of profit, revenue, business, contract, opportunity, goodwill, reputation, or any indirect, special or consequential loss arising out of, or in connection with, this publication.

If you have any queries, please contact technical@trulinesystems.co.uk

NNDI