asp
support and protect

OKTOLOK. The advanced scaffold system optimised for boards

OKTOLOK System Scaffold

ASSEMBLY BROCHURE

UK Version: Issue 11.07

Introduction

ASP Oktolok scaffolding system is a universal and versatile modular scaffold. Suitable for all scaffold types including independents, façade, birdcage, hanging, as well as grandstand seating sub-structures, stairtowers, temporary roofing supports, shoring and falsework. Using an absolute minimum of parts the system offers the following key advantages:

→	Unrivalled economics	→	Minimal parts	→	Rapid assembly
→	Massive strength	→	One vertical fits all	→	Flush platforms
→	Tube and fitting compatible	→	Lightweight	→	Utilises existing stocks
→	Versatile	→	EN compliant	→	Easy corner formation

The Oktolok system can be adapted to both rectangular and non-rectangular ground plans, including curves, inclines and circles. Horizontal members of the Oktolok system are available in increments of 0.50m ranging from 0.25m to 2.57m, a range of telescopic members are also available to achieve a infinite variations and application.

Each rosette allows up to **eight connections**, both horizontally and diagonally. All horizontals and diagonals have special **cast** connecting heads at their ends with built-in wedges. This allows quick, **safe** and easy connection to the vertical standards. The result is a connection with significant nodal **rigid**ity. All steel parts of ASP's Oktolok system scaffold are **hot-dip galvanized**. This means as little time as possible is spent on maintenance and repair.

Advantages of Oktolok System Scaffold:

- Utilizes existing stocks of tube, fittings and boards.
- Maximum area can be provided with the minimum quantity of components.
- Conforms to latest European Legislation i.e. Guardrail height from top of platform to top of guardrail exceeds minimum distance of 950mm.
- When using Scaffold Boards, the main platform is completely free of obstructions due to the scaffold boards covering both Standard and Wedge.
- Use of split bays on corner configurations, thus eliminating trips, traps and overlaying of Scaffold Boards.

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Application Planning and Erection

ASP Oktolok should be used in compliance with the permissible node and base jack loads.

Key criteria for Application Planning:

1) The use to which the scaffold is to be put (i.e. working, protective, shoring etc.)
2) The magnitude and the exact areas of the vertical dead and live loads to be supported.
3) The magnitude of wind forces and other horizontal loads.
4) The number of working levels, their width and length.
5) The selection of suitable lengths for the vertical Standards.
6) The Standards should be jointed in the immediate vicinity of the working level.
7) The arrangement and number of Diagonal Braces as well as their positioning.
8) The number and position of the scaffold anchors.
9) Starting the erection with or without base collar.

Erection Preparation

To facilitate fast and safe assembly of the ASP Oktolok System the following points should be observed.

Key criteria for Erection Preparation:

1) The erection area (the site where the scaffold is to be set up) must be able to absorb the anticipated vertical load form the standards, if necessary sole boards should be placed under each base jack.
2) All the components to be used should be properly stored and quantities checked.
3) Never use any damaged scaffold materials.
4) Observe the distance between the scaffold and the building, take note of any obstructions or hazards (manholes, balconies, overhead power cables etc).

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Erecting ASP Oktolok System

1 >Base jacks

The scaffold should only be erected on ground that will accept the load. Otherwise use load-distributing substructures (such as scaffold boards). Erecting starts at the highest level where the scaffold is to be set up. At the bottom of each standard, place a base jack or rigid base plate at the required centres.

2 >Starting collar

Place a starting collar over an adjustable base jack. This method facilitates easy one-man assembly. Alternatively, place standard directly onto base jack.

3 >Ledgers

Connect Ledgers to the Base Collar in both directions to form a stable basic frame. Use small holes of the rosette for right angle connections.

Ensure all ledgers are level in each direction prior to engaging wedge fully.

Note:
All base jack levels should be adjusted to the correct height in same elevation before setting connection wedge.

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4 >Standards

Note:
All lower level ledgers should be fixed securely with a 500g hammer blow prior to placement of standards.

Place a standard onto each base Jack, ensuring base of standard has located inside the lower level starting collar if present. Rotate standard so that the spigot holes are aligned parallel to the façade.

Work around the levelled base installing standards in all collar locations until complete.

5 >Horizontal Member installation

Fix next level ledgers and transoms into the connecting flange from below and hammer in the wedge to secure.

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6 >Diagonal Brace

Diagonal Braces are mounted on a deck level connecting rosette and to the 2.08m higher connecting rosette of the Standard opposite. Bracing frequency should be determined from ASP Oktolok 'Technical Manual' publication.

7 >Board Bearers

Install Oktolok Board Supports or Scaffold Tubes directly to the deck level Ledgers at the required centres to suit the Scaffold Boards.

Note:
Extend inner tube of the Extendable Board Support to allow for inside boards

8 >Installation of 1st Lift

Board out platform as required from below.

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Place inside Scaffold Boards over Extended Board Supports

Complete erection of working platform, with toeboards and double handrails.

Note:
Distance from top of boarded platform to top of handrail exceeds minimum distance of 950mm as required by British Standards.

9 >Installation of 2nd Lift

If loose spigots are used insert the spigot into top end of lower standard, the integral spacer prevents the spigot from falling into the tube, secure in place to the lower standard using a locking pin. To continue place upper standard onto spigot.

Rotate standard so that the spigot holes are aligned parallel to the façade, secure in place using a locking pin.

To further extend repeat steps 5,6,7 and 8.

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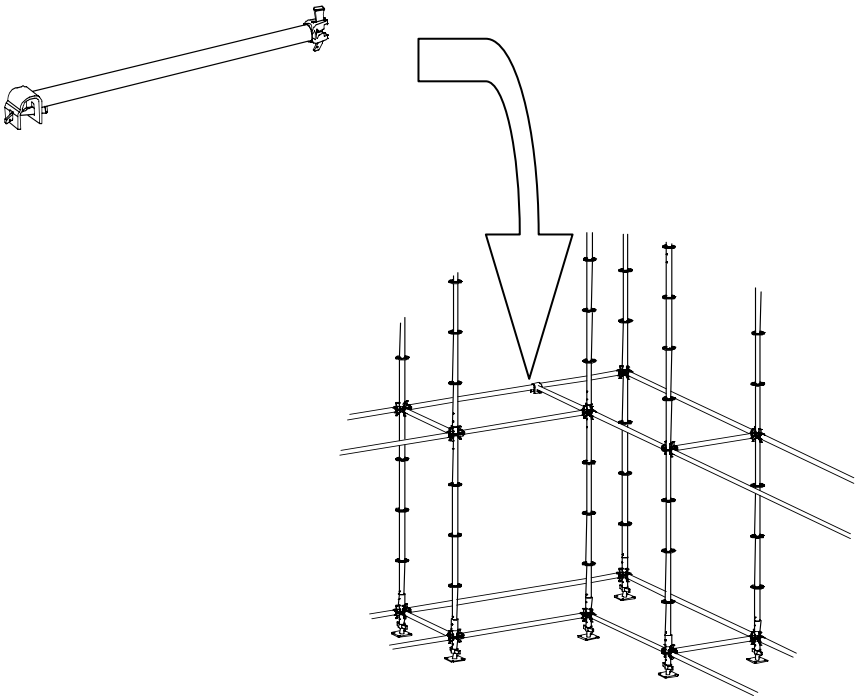
Corner Formations

2 Standard Corner

Standard to Ledger Transom



Note:

Using split bays, and the addition of a standard to ledger transom a 2 standard corner is formed.

Scaffold Tube Bearers or Oktolok board supports are used as normal and Scaffold Boards placed over.

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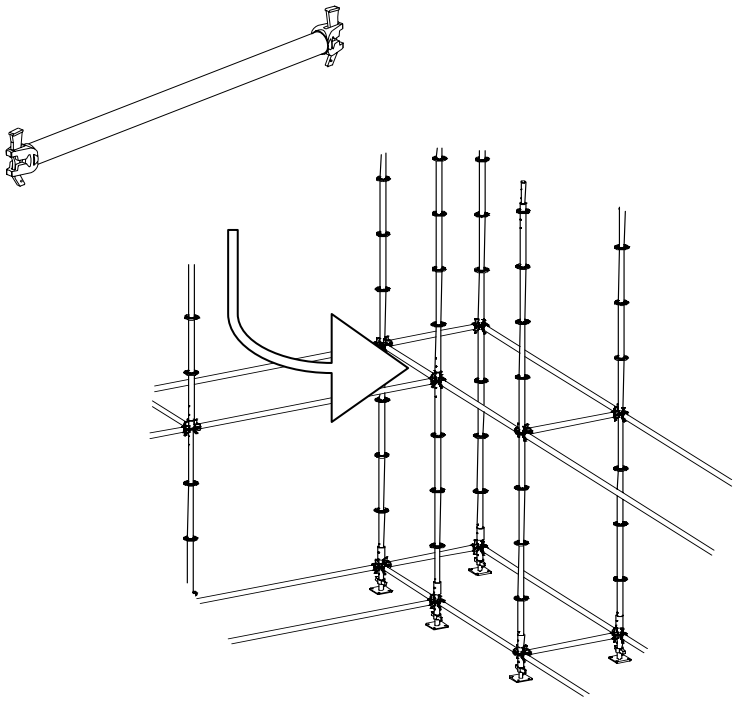
Corner Formations

3 Standard Corner

1.00m Ledger



Again using split bays, and the addition of a 1.00m Ledger, standard, starter collar and base jack a 3 Standard corner is formed.
Scaffold tube bearers or Oktolok board supports are used as normal and scaffold boards placed over.

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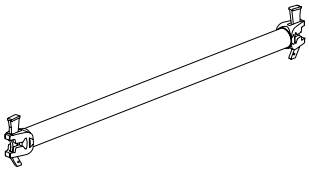
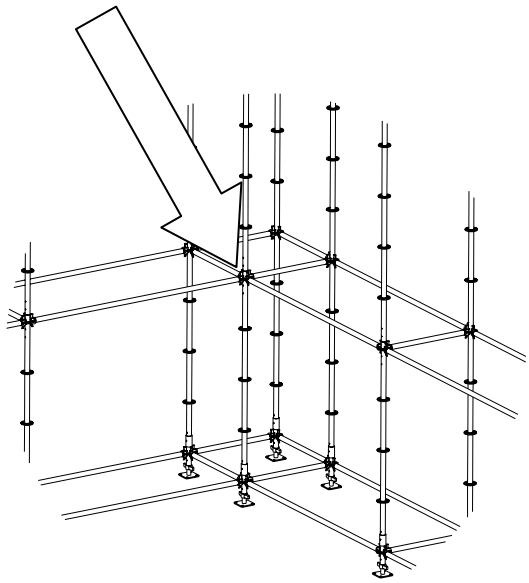
Corner Formations

4 Standard Corner

1.00m Ledger





Using 4 Standards and 1.00m Ledgers to form a 1.00m square tower in each corner. Scaffold Tube Bearers or Oktolok Board Supports are used as normal and Scaffold Boards placed over.

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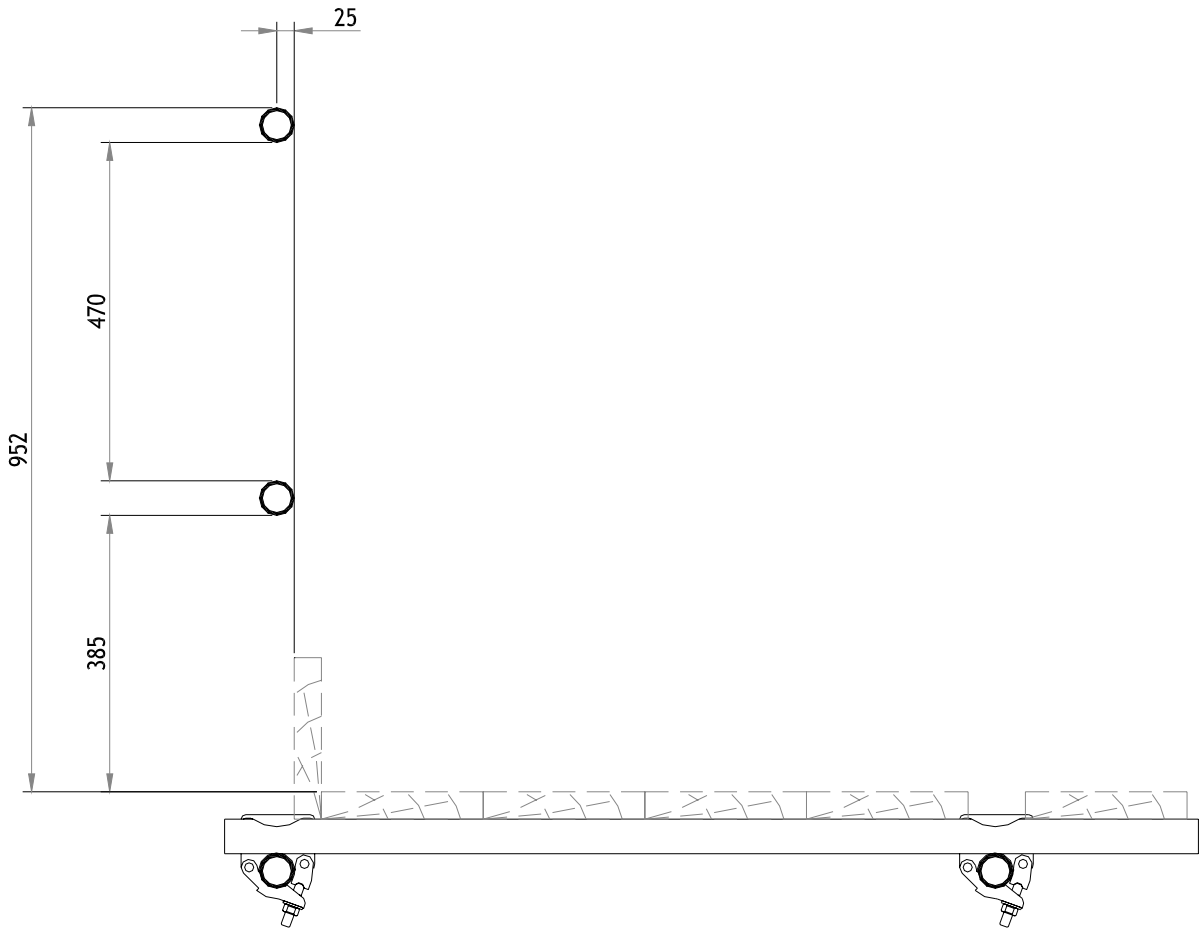
Guardrail Height



Note:

Absolute minimum distance from top of boards to top of upper guard rail = 950mm

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