

# SCAFFOLDING

## READYLOK & EXTENDABLE TRANSOMS

### User Guide


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GENERATION  
HIRE & SALE

# Altrad Generation Hire & Sale

## Support for Construction & Industry



Altrad Generation is the UK's leading supplier of: Scaffolding, Temporary Fencing, Light Access, Edge Protection, Safety Decking and Groundworks for hire and sale.

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#### **BEST QUALITY**

We work closely with our suppliers to ensure consistent product quality every time. All our products are specified to meet or exceed statutory requirements, verified by our Quality Assurance team.



#### **BEST AVAILABILITY**

Our nationwide branch network, transport fleet and stock holding ensure we can supply your equipment needs. What, When and Where you need equipment.



#### **BEST PARTNERSHIP**

We can take care of all your equipment needs; supplemented by a full range of engineering, design, specification and business services. Our focus is to work together, supporting the growth of your business.



#### **BEST PRICES**

Our global supply chain, purchasing and lean business means we don't pass on unnecessary costs to you. We aim to provide consistently low prices and the best value when you buy or hire from us.

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# Readylok & Extendable Transoms

## Introduction

Readylok prefabricated transom units and associated intermediate extendable transoms allow users to take advantage of system scaffold efficiency (fast erection, reduced components) within their tube & fitting scaffold erection.

Advantages:

- Fixed length end connections facilitate efficient setting out and self-alignment.
- Reduced number of components due to coupler's ability to join 3 tubes instead of 2.
- Elimination of ledger bracing (compliance criteria within TG20:13).



Simplifies  
erection and  
striking

Cuts labour  
costs

Uses existing  
stocks of  
tubes and  
fittings

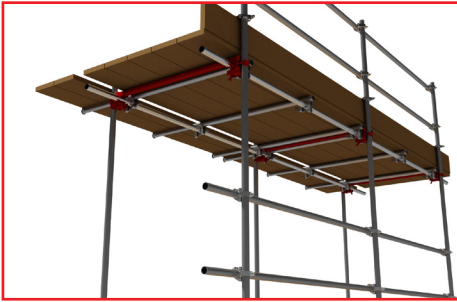
Reduces site  
losses

## Board Spans

Products described in this user guide are intended for use with standard scaffold boards as specified in BS2482:2009 and NASC TG5:10. Maximum spans are assumed as 1.2m/1.5m accordingly.

# Readylok & Extendable Transoms

## Component Identification



**Readylok Transom**



**Extendable Transom**



**Universal Extendable Transom**

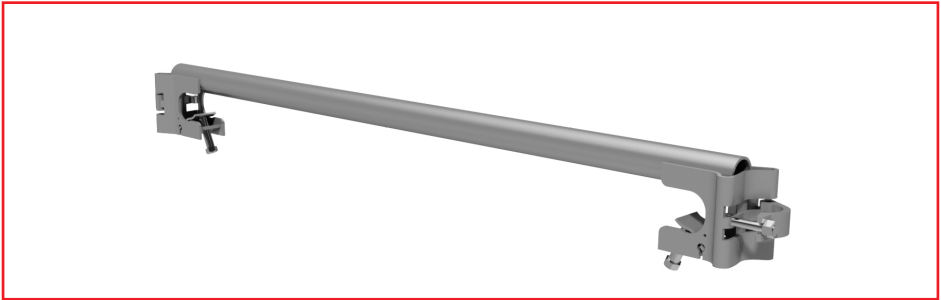


**Extendable Hop-Up Bracket**

Compliance with criteria within TG:20:13 should be checked by a competent person.

# Readylok & Extendable Transoms

## Readylok Transoms



Used at standards at every lift to join the standard/ ledger/ transom. Typically at 2m CTS. These facilitate setting out to pre-determined bay widths (3/4/5 board). The fixings allow the transom and standard to occur at the same node point, reducing parts and adding to structural rigidity. The added rigidity, used in accordance with NASC TG20 compliance sheets can eliminate ledger bracing for clear walkways and increased build efficiency.

Code	Description	Weight
<b>046531</b>	3 Board Readylok Transom	8.32kg
<b>046536</b>	4 Board Readylok Transom	8.66kg
<b>046515</b>	5 Board Readylok Transom	9.00kg

## Safe Working Load with Ledger Bracing Omitted

Debris netted independent with Readylok Transoms, in accordance with NASC TG20:13 compliance sheet, can be erected up to 16m to the top lift with up to 1 inside board; 14m (load class 3) or 12m (load class 4) with 2 inside boards.

Load Class (BS EN12811)	Duty	Maximum Loading*
<b>3</b>	General Purpose	2.0 kN/m <sup>2</sup>
<b>3</b>	Heavy Duty	3.0 kN/m <sup>2</sup>

\* One lift loaded, with one lift 50% loaded.

Inside boards loaded to 0.75 kN/m<sup>2</sup> at working lift.

Foundation design leg load (for the client): 13.9kN

\*\*For requirements outside of the above compliant parameters, scaffold must be designed for site specific conditions by a competent engineer. See 'Certificates of Conformity' section.

# Readylok & Extendable Transoms

## Extendable Transoms

Used within bays to reduce board spans between Readylok and/or main transoms, with a telescopic extension designed to support inside boards.

There are two types, the fixed width extendable and the Universal extendable transom.

The fixed width extendable transom (FET) is suited to ledgers at fixed, pre-determined distances, the FET is secured by steel wedges set by hammer blows at the front and rear. Different versions are required to suit 4 board or 5 board wide scaffolds and an additional 3 inside boards are offered by the extendable insert.

The universal extendable transom (UET) suits tube and fittings scaffolds, system scaffolds and Readylok scaffolds. It can be used on 4 or 5 board wide main platforms. For 4 board wide scaffolds a fixed inside board exists and an additional 3 inside boards are offered by the extendable transom insert. For 5 board wide scaffolds there are no fixed inside boards and up to 3 inside boards are offered by the extendable transom insert. The rear of the UET is a modified Readylok bracket and is secured using a standard scaffold spanner, the front is secured using a single coupler.

for both transom types it is essential that the insert is fixed in position during transportation and storage, this is achieved by tightening the front bolt.



# Readylok & Extendable Transoms

## Extendable Transoms

Code	Description	Weight
<b>278326</b>	866mm (4+3), Use with 4 board Readylok	9.00kg
<b>278328</b>	1098mm (5+3), Use with 5 board Readylok	8.66kgkg
<b>278334</b>	1300mm (5+3) Genlok with Stub	7.00kg
<b>278336</b>	Extendable Tube Transom (5+3)	8.60kg
<b>278330</b>	Universal Extendable Transom (5+3)	7.25kg

Safe working loads based on bending only

### 2 Inside Boards

No. of transoms per 13' board	Nominal CTS. (M) - (inches)	Allowable load (kN/m <sup>2</sup> )	Load Class (BS EN12811)
<b>4</b>	(1.2m) - (48')	5.6	5
<b>5</b>	(0.9m) - (39')	7.5	6
<b>6</b>	(0.72m) - (36')	9.4	6
<b>7</b>	(0.6m) - (24')	11.3	6

### 3 Inside Boards

No. of transoms per 13' board	Nominal CTS. (M) - (inches)	Allowable load (kN/m <sup>2</sup> )	Load Class (BS EN12811)
<b>4</b>	(1.2m) - (48')	2.5	3
<b>5</b>	(0.9m) - (39')	3.4	4
<b>6</b>	(0.72m) - (36')	4.3	4
<b>7</b>	(0.6m) - (24')	5.1	5



# Readylok & Extendable Transoms

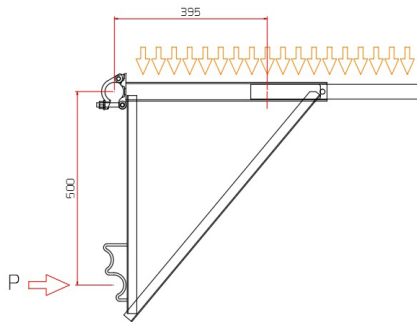
## Extendable Hop-Up Brackets



These brackets provide an alternative for inside board support. Extension piece allows for up to 3 boards. Design enables inside platform to move up/down without effecting main platforms. Ensure extension piece is retracted and secured with the bolt during storage and transportation.

Code	Description	Weight
<b>278337</b>	Extendable Hop-Up Bracket (2+1)	6.55

Designed to be used on independant scaffolds or birdcages. the scaffold design should clarify that the inside platforms supported by hop-up brackets should be limited to 0.75kN/ m2 (see table below). Intended for light access, not for storage of materials



Load (kN/m <sup>2</sup> )	Bracket CTS (m)	Load P (kN)	Load Class (BS EN12811)
<b>0.75</b>	1.2	0.6	1
<b>1.5</b>	1.2	1.2	2

Load P is the horizontal reaction at the lower bracket and occurs at 1.2m CTS. The scaffold designer should check the support ledger can resist this load.


# Readylok & Extendable Transoms

## Certificates of Conformity - NASC TG20:13

Altrad Generation's Readylok transoms have been tested in accordance with the NASC requirements and test procedures for TG20 compliance.

Working with the NASC, Generation carry out testing on their products to ISO9001:2008 quality Management Standards.

Certificates on Conformity are available (upon request) to cover the Readylok system.




**Sales Information Sheet**  
TSB048 - NASC TG20\_13

The new TG20:13 guide has been published by the NASC. It has been significantly overhauled. A copy of the Full Operational Guidance document is available at your local branch.

- It offers good practice guidance for tube and fitting scaffolding.
- TG20:13 aims to raise awareness of good practice in scaffolding across the construction industry and drive up standards of scaffolding, and safety.
- It is supported by the UKCG, HSE and CTEB.
- TG20:13 is underpinned by detailed structural research and is designed to conform with the European standard for scaffolding: BS EN 12811.
- NASC created TG20:13 for the wider industry to reduce the requirement for bespoke scaffolding design for standard scaffolding structures.
- TG20:13 provides guidance for independent scaffold structures, bridges, loading bays, ladder access and free-standing towers, and chimney scaffolds. It includes features such as bridges, protection fans, inside board brackets, cantilevered platforms and pavement lifts. Floor-level lifts and double standards are addressed, and guidance is provided for the first time for structural transom units.

You may be asked if our products are compliant to TG20:13. The answer is that products are compliant to the relevant European Standard (EN) or British Standard (BS). These are referred to in TG20:13 separately and you should refer to our products and service guide in the first instance to see what standards our products meet. If you are in doubt refer to Quality Department.



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[www.generationuk.co.uk](http://www.generationuk.co.uk)    FreePhone: 0800 779 7113    [sales@generationuk.co.uk](mailto:sales@generationuk.co.uk)

Table 1, below, issued in a guide from the NASC in July 2016 shows characteristic values. They are now design values. the stiffness values are minimum average values for each group of at least 5 tests. Design values based on Table 1 are given in Table 5.15 of the NASC TG20:13 Design Guide.

Structural property	Symbol	Min. value	Units
1: Characteristic slip resistance down the standard (when loaded via the ledger)	$F_{sy}$	10.00	kN
2: Characteristic slip resistance along the ledger	$F_{sx}$	1.85	kN
3: Transom to standard – rotation about the ledger axis			
3a: - characteristic resistance moment	$M_{ksx}$	1.75	kNm
3b: - rotational stiffness up to moment = 1.06 kNm	$C_{\phi sx1}$	45.00	kNm/rad
4: Transom to standard – rotation about transom axis			
4a: - characteristic resistance moment	$M_{ksz}$	1.65	kNm
4b: - rotational stiffness up to moment = 1.00 kNm	$C_{\phi sz1}$	24.00	kNm/rad
5: Transom to ledger - rotation about the standard axis			
5a: - characteristic resistance moment	$M_{kly}$	0.70	kNm
5b: - rotational stiffness up to moment = 0.42 kNm	$C_{\phi ly1}$	7.50	kNm/rad

**Table 1: Required structural properties for TG20 compliant structural transom couplers**

# Readylok & Extendable Transoms

## General Safety and Maintenance

All operatives erecting scaffold have a duty of safety to themselves, others working on or near the scaffold and all persons who may be nearby.

Operatives should work within the requirements of the Health and Safety at Work Act 1974, Construction Regulations Safe Place of Work Act 1996 and the Work at Height Regulations 2005.

All components shown in this guide should be inspected before and during erection as well as after dismantle for damage and/or corrosion. Bolt threads should be free to turn, telescopic parts of extendable transoms should be free to move as designed. When storing/transporting extendable items, they should be secured and locked off to prevent damage.

## Disclaimer

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Generation UK Ltd.  
Generation Head Office, Trinity Street, Off Tat Bank Road, Oldbury, West Midlands, B69 4LA - United Kingdom  
Tel. 0121 543 2950 - Fax. 0121 543 2953 - enquiries@generationuk.co.uk  
[www.altradgeneration.com](http://www.altradgeneration.com)