



Implementing TG20:13 by Simon Hughes, Simian Risk



Impact of TG20:13



- A new suite of guidance, not merely a revision
- Changes are far reaching, effecting most common scaffolds
- Most significant change to impact the industry for years



Work at Height Regulations 2005

Schedule 3 – part 2 additional requirements for scaffolding

- 7) Strength & stability calculations for scaffolding shall be carried out unless...
 - a) A note of calculations, covering the structural arrangements contemplated is available.
 - b) It is assembled in conformity with a general recognised standard configuration.

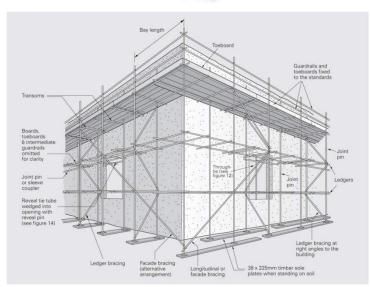
Impact of TG20:13



Previously...

- Narrow scope of basic scaffolds
- Legal compliance
- General awareness
- Client demands
- Design burden
 - Long lead times
 - Spiralling design costs





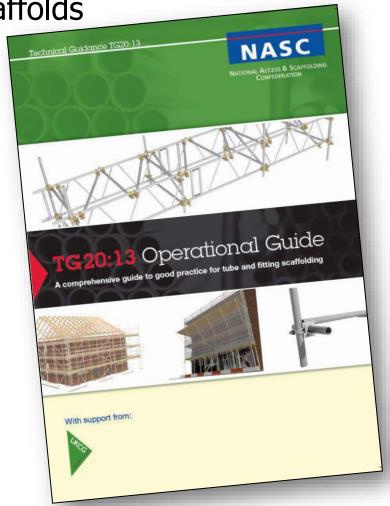
Impact of TG20:13



NASC Objectives

Expand the scope of standard scaffolds

- Reflect the needs of today's scaffolding industry
- Reduce the design burden
- Improving lead times and remove unnecessary costs
- Achieve compliance



HSE Support



'The Work at Height Regulations 2005 require that strength and stability calculations are carried out for scaffolds unless they conform to a recognised standard...

...HSE is pleased to acknowledge that TG20 has been written by NASC to provide such a standard...'



Heather Bryant, Chief Inspector of Construction Health and Safety Executive

UKCG Support



'We applaud and support the work of the NASC which will no doubt result in safer scaffolding...

The UKCG recommend the adoption and standardised use of TG20:13... both within and outside the construction sector.'

Stephen Ratcliffe,
Director UK Contractors Group



Principal Changes



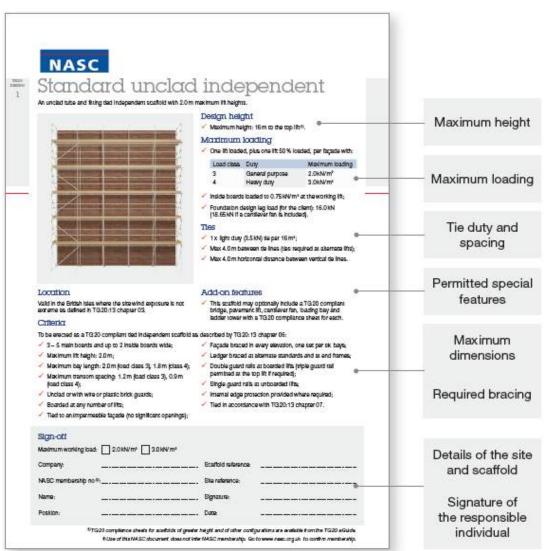
- Expanded Scope of 'Basic Scaffolds'
- To become known as 'Compliant Scaffolding'
- TG20 Compliance Sheets
 - Chapter 3 common range of scaffolds
 - TG20 e-Guide extents the range
- Revolutionary e-Guide software
- Otherwise scaffold must be designed



TG20 Compliance Sheets



- Demonstrates compliance and that bespoke design is **not** required.
- Predicted to become the default addendum document for scaffolding:
 - RAMS
 - Pre-start briefings
 - Handover
 - Inspection
 - Auditing
 - Accident Investigation



Principal Changes - Scope



- Expanded Scope of Compliant Scaffolds, including...
 - Tied Independent Scaffolding*
 - Towers
 - Interior Birdcage Scaffolding
 - Tied Putlog Scaffolds*
 - Fee-standing Independent Scaffolds
 - Loading Bays
 - Ladder access towers
 - Chimney Stack Scaffolds

^{*}previously covered in TG20:08

Principal Changes - Scope

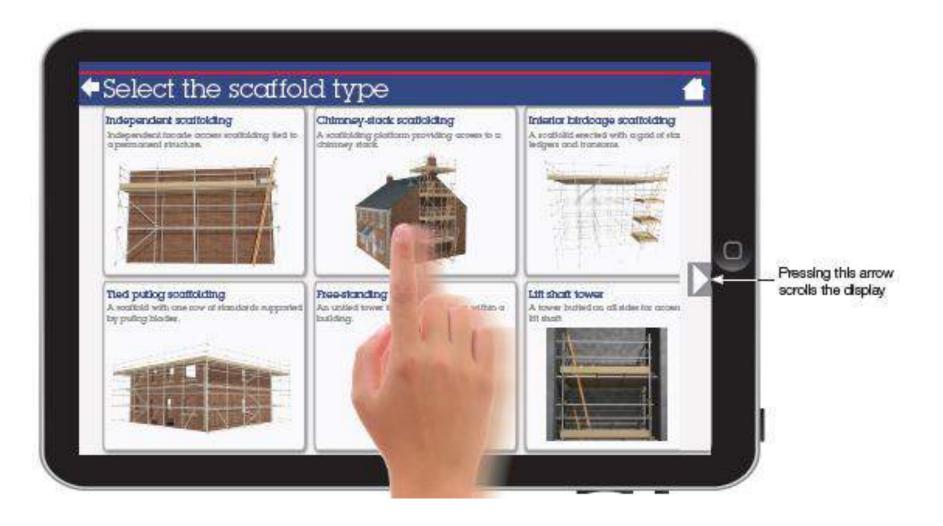


- Expanded Scope of Scaffolding Features
- Would have previously required design
- Referred to now as 'Add-on' features, including...
 - Bridging with beams
 - Prefabricated transom units
 - Light-duty protection fans
 - Pavement lifts*
 - Cantilevered access platforms
 - Inside board brackets

^{*}previously covered in TG20:08

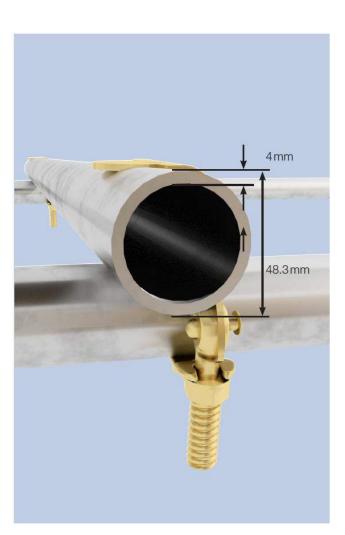
TG20 eGuide





Principal Changes - Tube

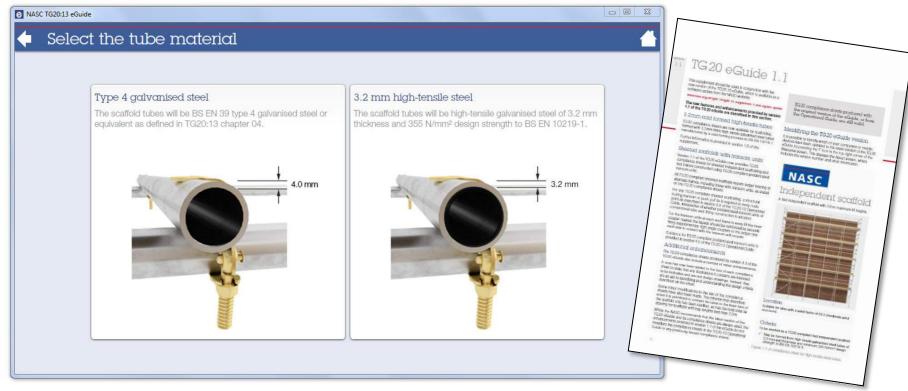




- TG20 Compliant Scaffolds only permits the following types of tube to be used:
- BS EN 39 type 4 (4mm) galvanised steel tubes or equivalent
- ✓ High-tensile galvanised steel tubes with a diameter of 48.3mm, thickness of 3.2mm, in accordance with BS EN 10210-1 (Hot rolled)
- The following types may not be used without design:
- × BS EN 39 type 3 steel tubes
- × Aluminium tubes
- × Other dimension, material or grade

Principal Changes – Supplement 1.1





- ✓ High-tensile galvanised steel tubes with a diameter of 48.3mm, thickness of 3.2mm, in accordance with BS EN 10219-1 (Cold-formed)
- ✓ E-Guide updated to include BS EN 10219 tube
- ✓ Issued September 2014

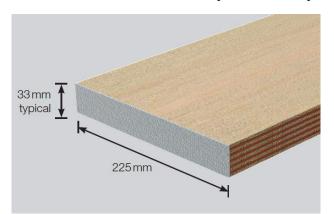
Principal Changes - Scaffold Boards



Platforms constructed from timber boards or decks of other materials



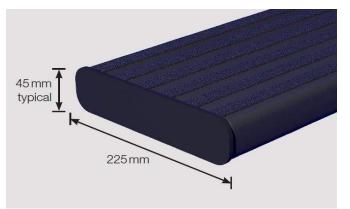
BS2482 Timber board (softwood)



LVL Board (Laminated Veneer Lumber) <a> Composite Plastic Board



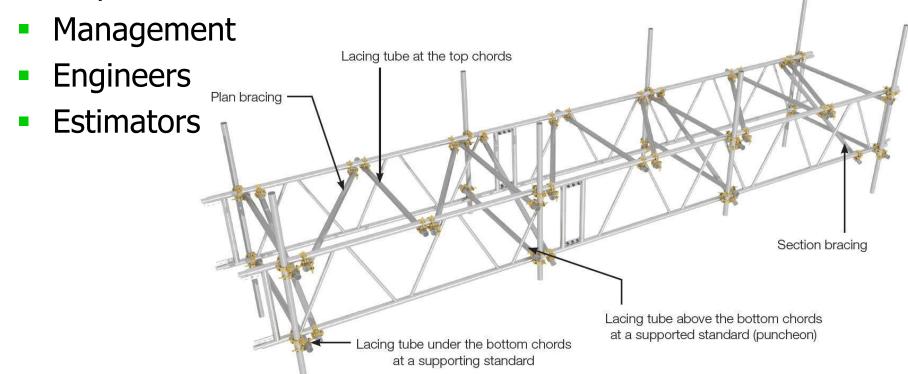
BS2482 Board (with nail plate option)



Learning Curve



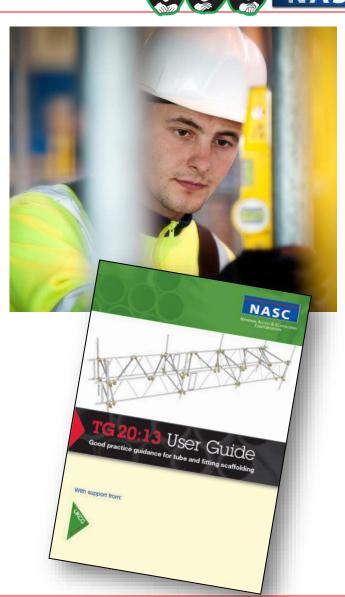
- Challenges traditional and common practice
- Affects all involved in the scaffolding process:
 - Scaffolders
 - Inspectors



Training & Awareness



- CISRS Training Courses updated
- Basic Scaffold Inspection course extended (3 days)
- Awareness training available:
 - Practical implications
 - Planning and managing implications
- In house toolbox talks User Guide



Enforcement & Compliance



- A 'bedding in' period
- TG20:08 was officially withdrawn 30th June 2014
- Supported by Health and Safety Executive
- Enforcement to TG20:13 (WAHR'05)
- Supported by UKCG
- Client Specifications
- Conditions of Contract
- Questions being asked of system scaffold manufacturers and suppliers – compliance sheets???







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