



TRA Safety & Technical Workshop 2023

Rutland Suite

#TRAAGM2023

TRA Safety & Technical



- Welcome and Competition Act
 1. Manual unloading limit reduced to 75 Kg
 2. Recommendations for site unloading and handling of Spandrels
 3. NHBC Technical Standards 2023 revised Deflection Limits
 4. 30-minute fire solutions for 3 storey ceilings below trusses

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Safety Topic 1



Manual unloading limit reduced to 75 Kg

- Why is limit being reduced from 95Kg?
- What are implications of reducing this limit?
- Do you have any comments on the revised leaflet?
- Is the new leaflet enough?

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Safety Topic 1



Manual unloading limit reduced to 75 Kg

- TRA recommends that members have a structured system in place to demonstrate they are encouraging mechanical unloading and handling as the preferred working practice.
 - Share TRA mechanical unload leaflets with quotes.
 - When arranging deliveries, confirm mechanical unloading systems will be available
 - Where mechanical handling will not be available.
 - Confirm weights of trussed rafters to be delivered
 - Provide manual unload leaflet
 - Confirm contractors' responsibility to have site specific safe system in place
 - Maintain a record the above have been carried including site contact

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Safety Topic 2



Recommendations for site unloading and handling of Spandrels

- TRA recommended option remains crane unload
- What other options currently used for site unloading
 - Crane hook attachments for telehandlers
 - Strap over forks – provided sheathed to protect strap
- Recent accidents and HBF document are encouraging movement away from above
- Should TRA revise information / What are your views?

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Technical Topic 1



NHBC Technical Standards 2023 section 6.4.9

- Deflection and vibration limits should be:
- No more than $0.003 \times$ the span for the combined bending and shear based on the total dead and imposed loads
- Maximum deflection of 14mm where strutting is provided, or 12mm where strutting is not provided.
- Designers need to check with their System Provider to confirm how this change is most effectively implemented within their specific design software

Technical Topic 1



NHBC Technical Standards 2023 section 6.4. - Latest guidance from NHBC

- Maximum deflection' should be taken as applying to the instantaneous deflection, not the final deflection.
- Applies to all floors supplied from 01/01/2023 except those stored, ordered or designed prior to this date.
- From 1 July 2023, all new floors should meet the new requirements, including existing designs.
- NHBC have clarified that the requirement is intended to also cover attic truss floors and that the 2024 NHBC Standards will be amended to make this clear. TRA is currently liaising with NHBC about an implementation date of 1 January 2024 in the specific case of attic truss floors.

Technical Topic 2



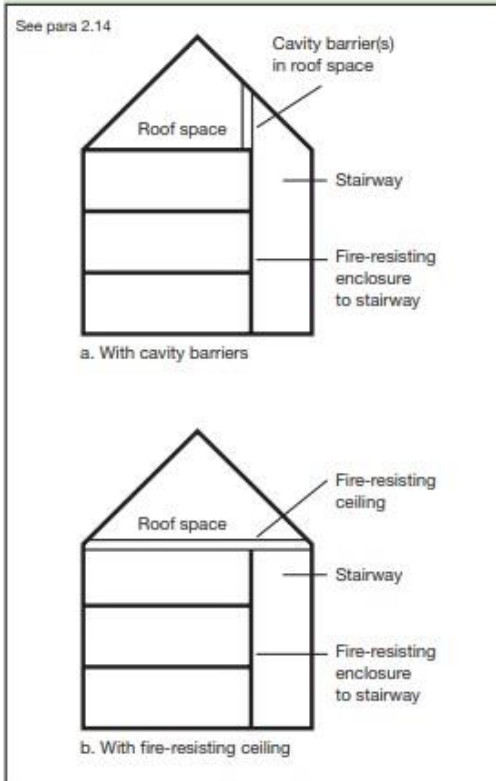
30-minute fire solutions for 3 storey ceilings below trusses

Extract from England Part B Approved Document:

Dwellinghouses with one storey more than 4.5m above ground level

2.5 Cavity barriers or a fire resisting ceiling (minimum EI 30) should be provided above a protected stairway enclosure (Diagram 6).

Diagram 6 Alternative cavity barrier arrangements in roof space over protected stairway in a house with a floor more than 4.5m above ground level



Technical Topic 2



30-minute fire solutions for 3 storey ceilings below trusses

- The existing 30-minute solutions within the TRA leaflet provide for either:
 - 47mm trussed rafters protected with 1 x 15mm Type F plasterboard directly fixed to trusses and board edge noggins.
 - OR
 - 36mm standard trussed rafters **counter battened** and protected with 1 x 15mm Type F plasterboard or 2 x 12.5mm Type F plasterboard.
- Do you offer this choice to customers when asked to quote on 3 storey designs????