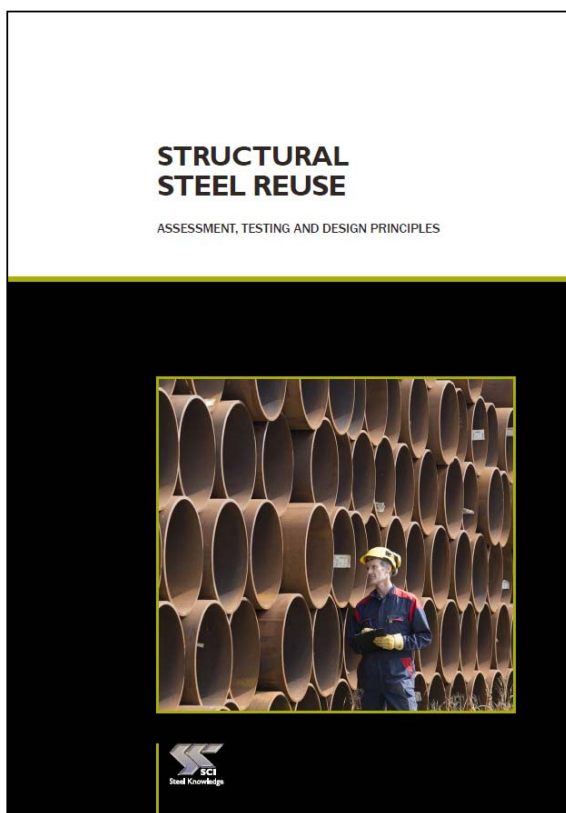




# Launch of the steel reuse protocol

Michael Sansom

# Structural Steel Reuse Protocol (SCI)



Steel Construction Institute  
SCI P427

*October 2019*

*Sponsored by:*

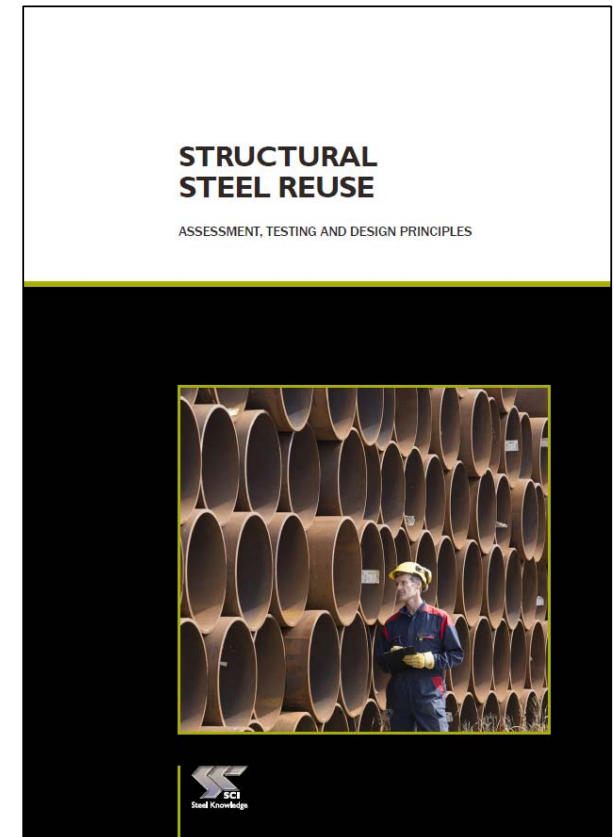


# Just to recap.....



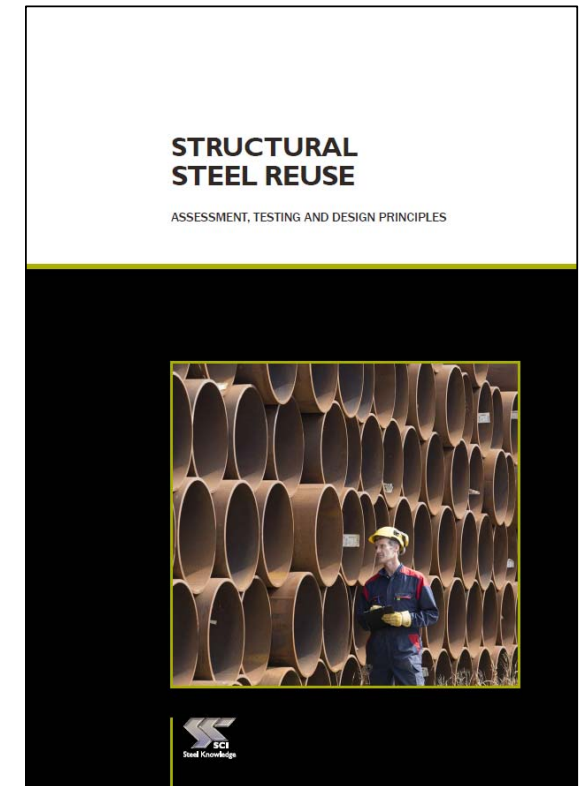
# SCI Steel reuse protocol

- Environmental case for reuse is compelling
- We know there are barriers within the current supply chain
- But we can reuse structural steel
  - It's not a case of if but when we have to do this at scale!





70,000 tonnes of tubular sections in stock



## NTS building, Thirsk:

- Fabricated in 2008
- Bought by CST in 2013
- Re-designed and re-engineered
- Erected in 2017



2008



**CST**  
CLEVELAND STEEL & TUBES LTD

NTS building, 2017



**CST**  
CLEVELAND STEEL & TUBES LTD

NTS building, 2017





**CST**  
CLEVELAND STEEL & TUBES LTD

NTS building, 2017



NTS building, 2017



**CST**  
CLEVELAND STEEL & TUBES LTD

NTS building, 2017



**CST**  
CLEVELAND STEEL & TUBES LTD

NTS building, 2017



£1m cheaper than  
new steel

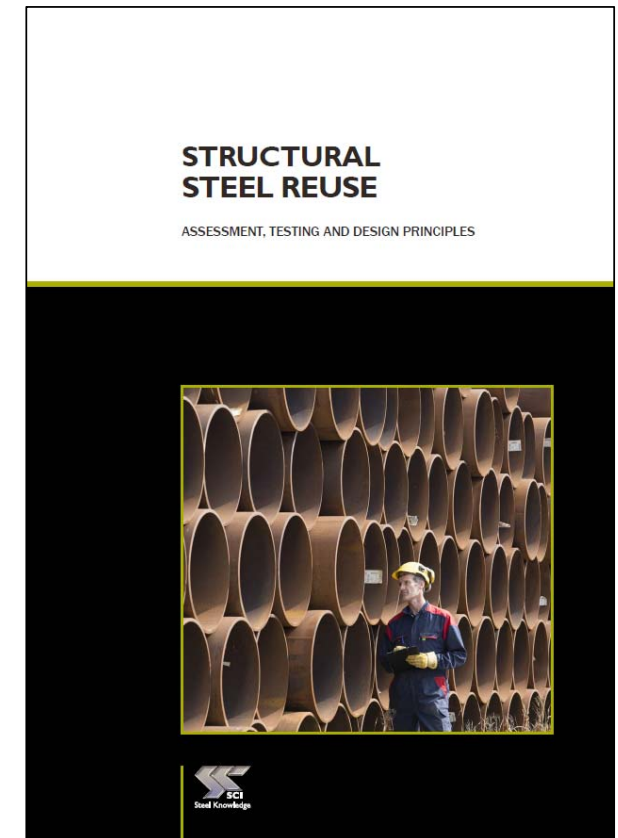
NTS building, 2017

11 October 2019

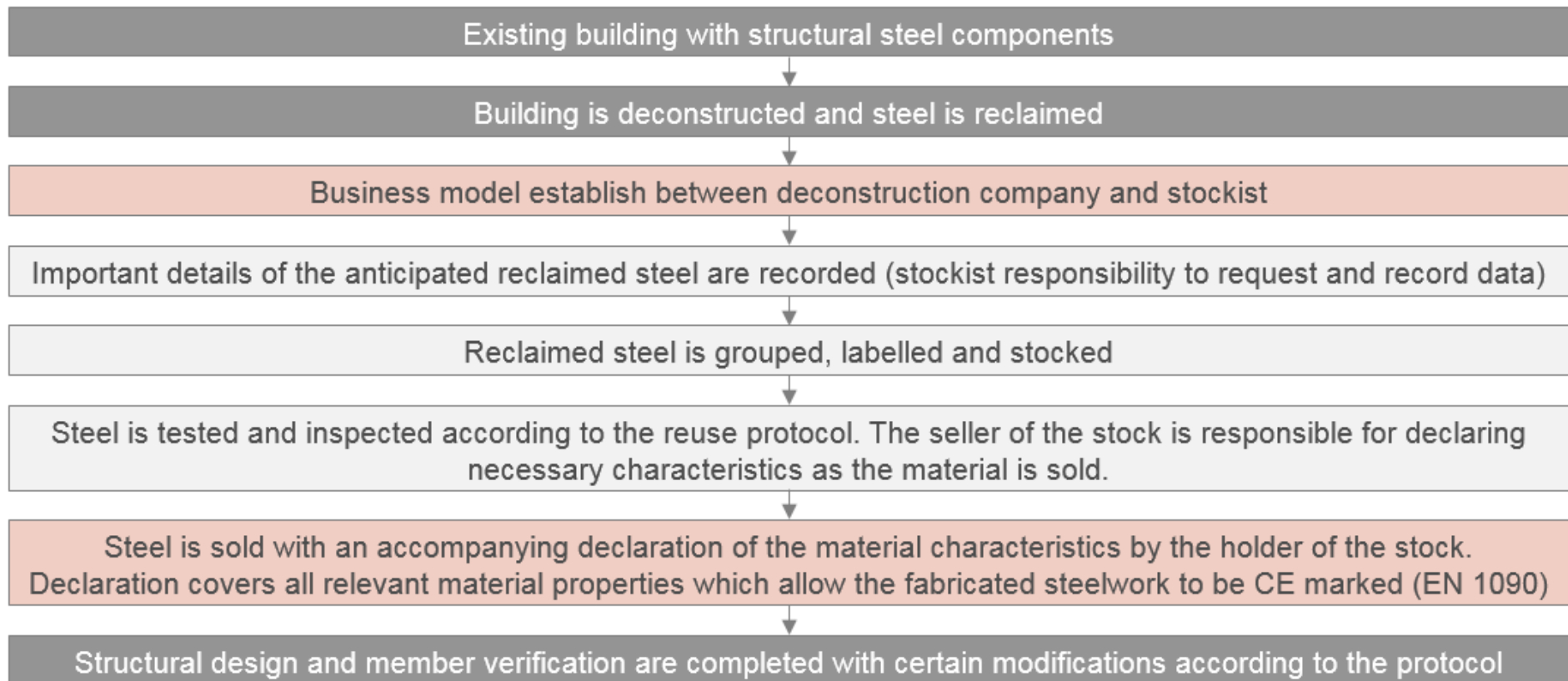


# SCI Steel reuse protocol

- First of its kind
- Underpinned by our RFCS work
  - Balance of academic and practical approaches
- Subject to consultation
- EN 1090-2 allows use of reclaimed steelwork as long as relevant properties are specified
- Provenance of steel is crucial
  - Determined via measurement and destructive and ND testing

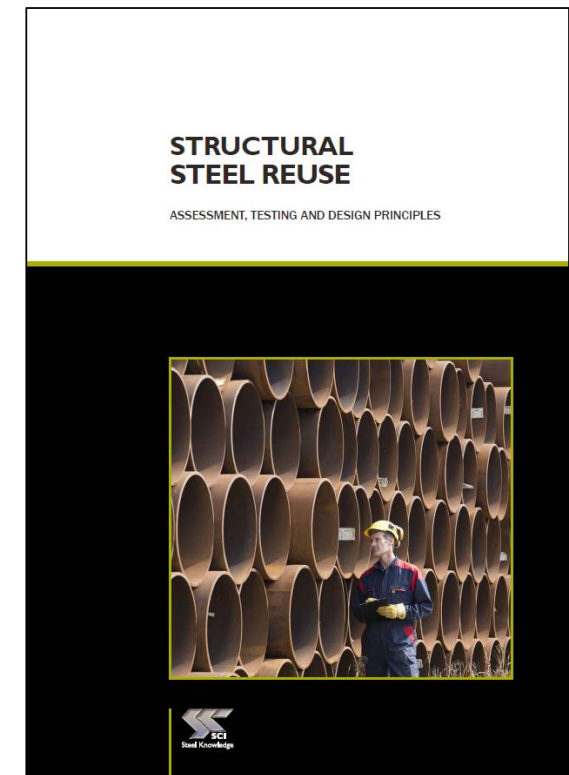


# Steel reuse protocol - Process



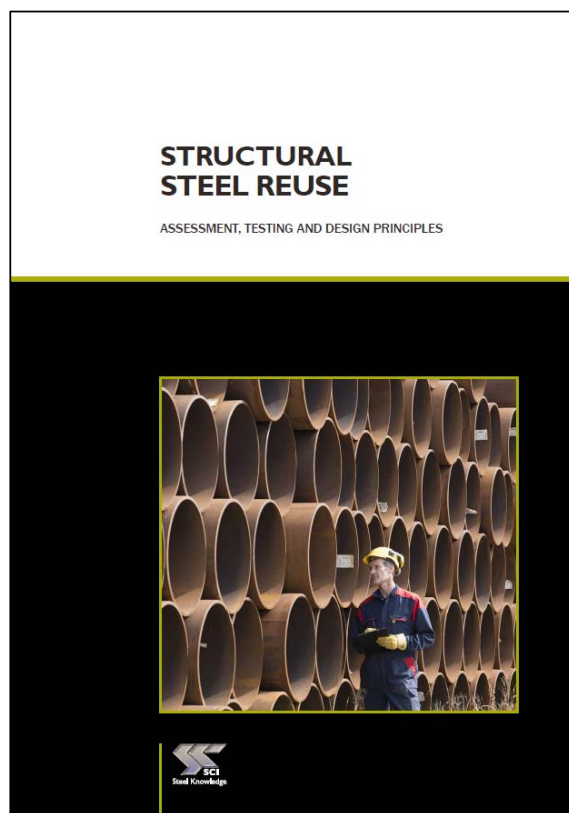
# Steel reuse protocol

- Scope
- CE marking
- Declaration of properties
- Stockholder responsibilities
- Assessment and testing
- Data and information requirements
- Design recommendations
- Fabrication issues





# Structural Steel Reuse Protocol (SCI)



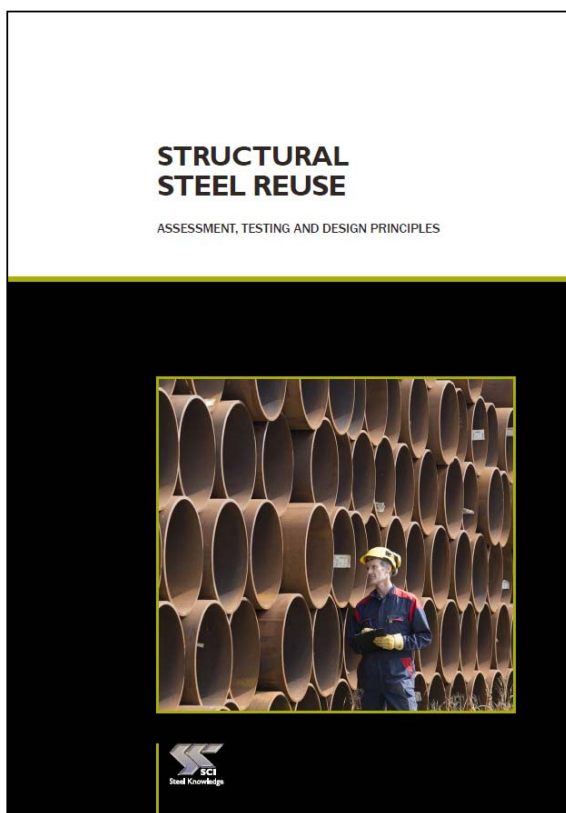
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We recognise there is more work to do but we hope this is a good start

As always, we welcome your comments and feedback on our work

# Structural Steel Reuse Protocol (SCI)



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.....Thank you



SCI is the leading, independent provider of technical expertise and disseminator of best practice to the steel construction sector. We work in partnership with clients, members and industry peers to help build businesses and provide competitive advantage through the commercial application of our knowledge. We are committed to offering and promoting sustainable and environmentally responsible solutions.