

Thesis Errata Sheet

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Thesis title

A feasibility study of utilising shipping containers to address the housing backlog in South Africa

Brief description of errata sheet:

Errata Page 1 gives acknowledgement to the contribution made by exchange student Caroline Naef during the research period.

Errata Page 2 correctly attributes Figure 4.16 to Caroline Naef, where it has not done so previously.

Number of pages: 2

Author: I request that the attached errata sheet be added to my thesis.

Signature of author: _____ Date: 9 May 2014

Signature of study leader : _____ Date: 2 May 2014

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These method statements form part of the construction programme that are compared in Chapter 5. Note that the primary differences between the conventional and the ISBU systems are highlighted in italics.

4.3.7 Durability of Structure and Expected Maintenance

The high durability of the weathering steel makes a container-based solution extremely durable. In addition, the structural strength also provides high-level ruggedness to the building. Although not necessarily a scientific statement, the Inhabitat Blog reported that a category 5 cyclone (i.e. 283km/h+ wind) was unable to destroy a research station built from shipping containers in March 2006 (Yoneda, 2010).

Regarding the maintenance of the structure, it is expected that upkeep regarding building joints, outside paint and possible leaking will be the primary maintenance issues (Keuler, 2013).

4.4 Final Test Case Designs for Feasibility Analysis

All the requirements and optimisations in the previous sections were followed to create two container-housing test cases: A low-density housing solution, and a medium-density housing solution. Refer to Figure 4.16 for the plan layout of the container configuration:



Figure 4.16 - Plan view of test case designs (drawing by C. Naef, 2013)