

chapter 7 supa sewe design + technical development







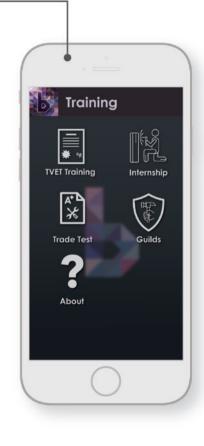




Figure 7.1 App proposal 1 (Author, 2016)









Current stall condition

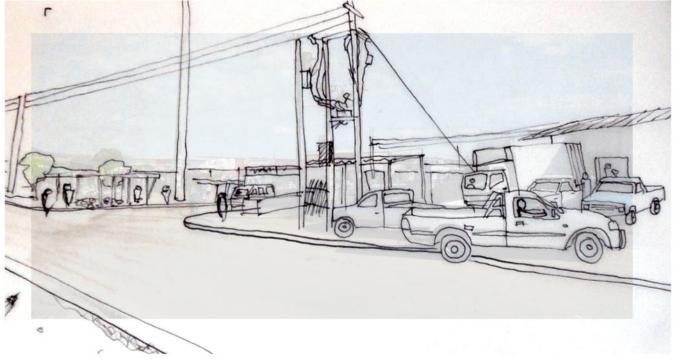


Figure 7.3 Current stall condition (Author, 2016)



Proposed stall upgrade



Figure 7.4 Proposed stall upgrade (Author, 2016)



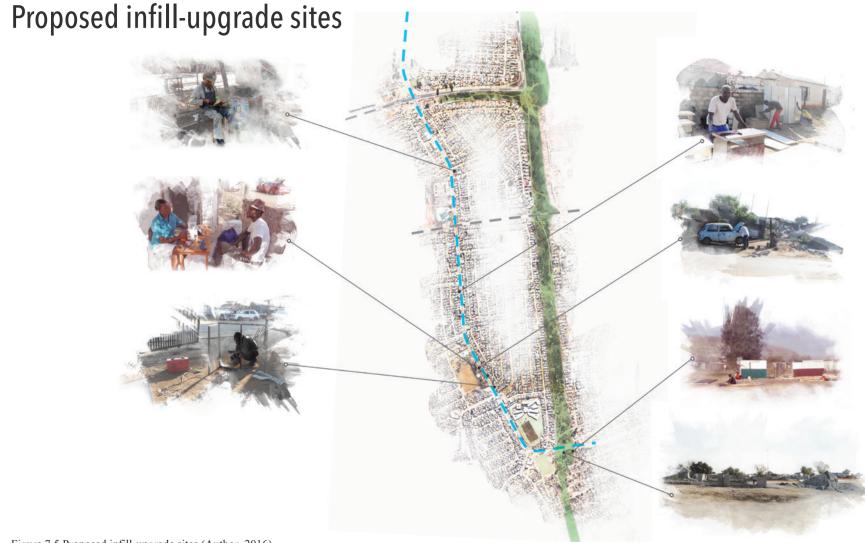


Figure 7.5 Proposed infill-upgrade sites (Author, 2016)





Figure 7.6 Bophelo Trade Training Centre Logo (Author, 2016)



PHASE 3 iteration 1

Figure 7.7 Itera



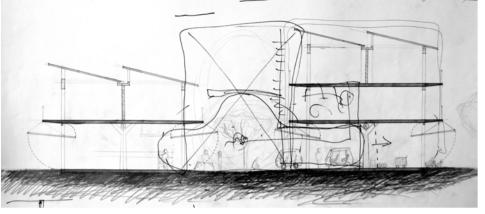




Figure 7.9 Collaboration corridor section (Author, 2016)

Figure 7.10 Edge condition plan (Author, 2016)



Figure 7.11 Iteration 1 model (Author, 2016)



Figure 7.12 Outside working space relationship (Author, 2016)

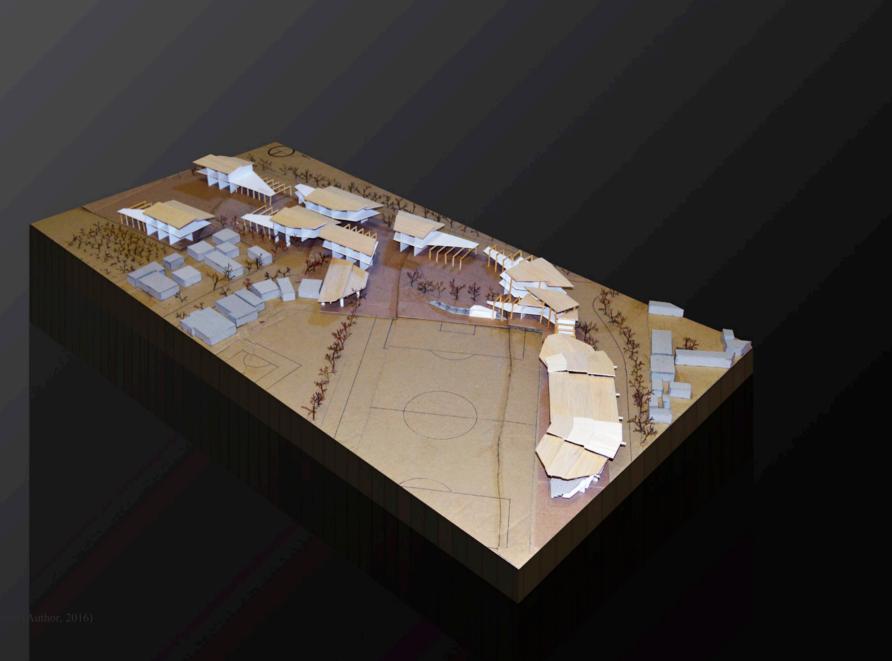






Figure 7.14 Iteration 1 model (Author, 2016)



Figure 7.15 Iteration 1 model (Author, 2016)

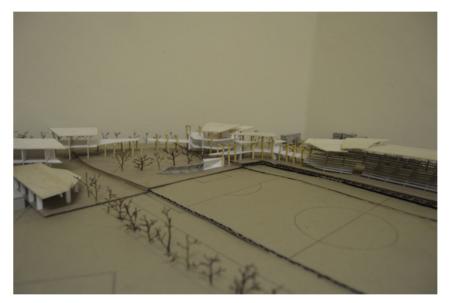


Figure 7.16 Iteration 1 model (Author, 2016)



Figure 7.17 Iteration 1 model (Author, 2016)



PHASE 3 iteration 2 A Star Killer

Figure 7.18 Iterat

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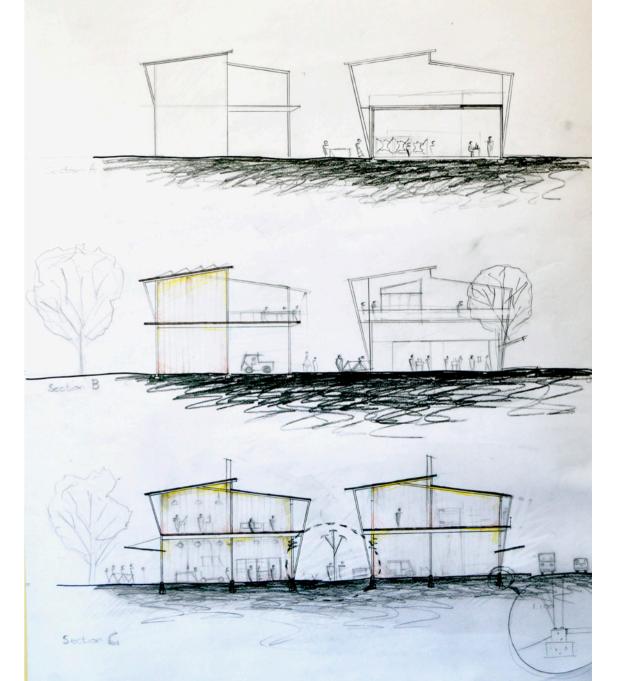
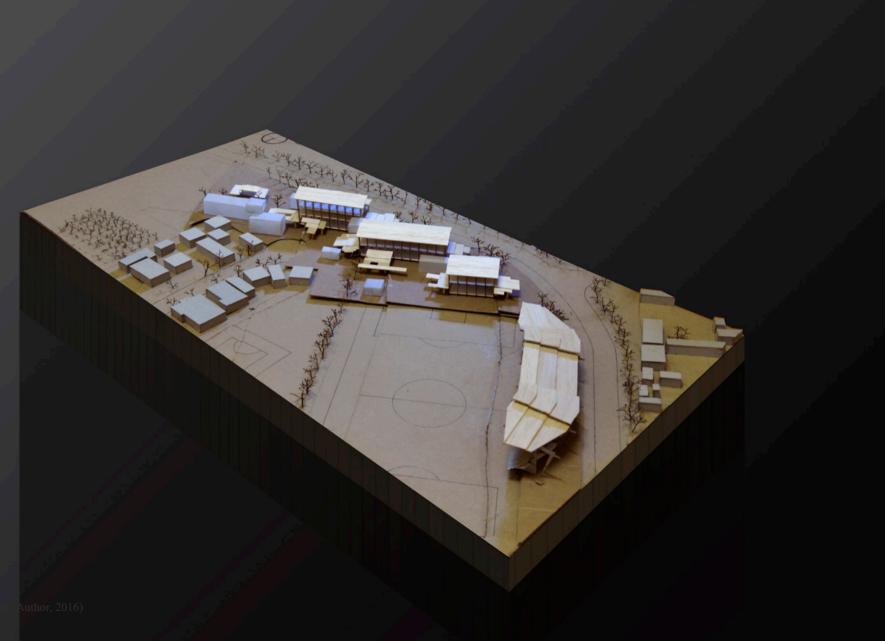


Figure 7.19 Section Development (Author, 2016)





Figure 7.20 Iteration 2 model (Author, 2016)



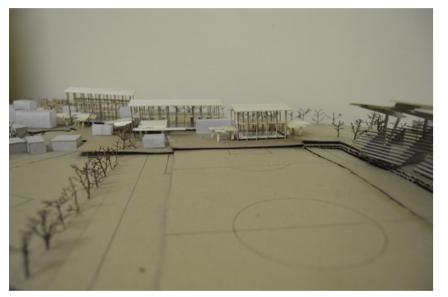


Figure 7.22 Iteration 2 model (Author, 2016)



Figure 7.23 Iteration 2 model (Author, 2016)



Figure 7.24 Iteration 2 model (Author, 2016)



Figure 7.25 Iteration 2 model (Author, 2016)

PHASE 3 iteration 4

Figure 7.26 Iterat



Figure 7.28 First floor plan (Author, 2016)

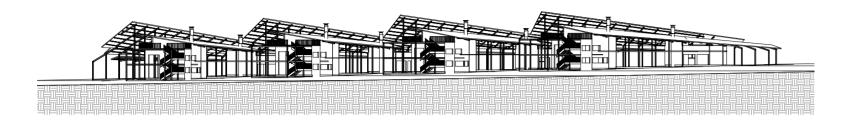


Figure 7.29 Northern Elevation (Author, 2016)

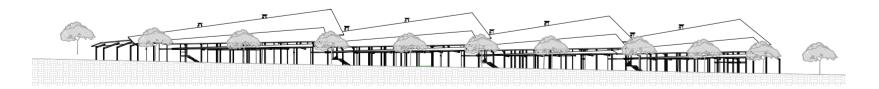
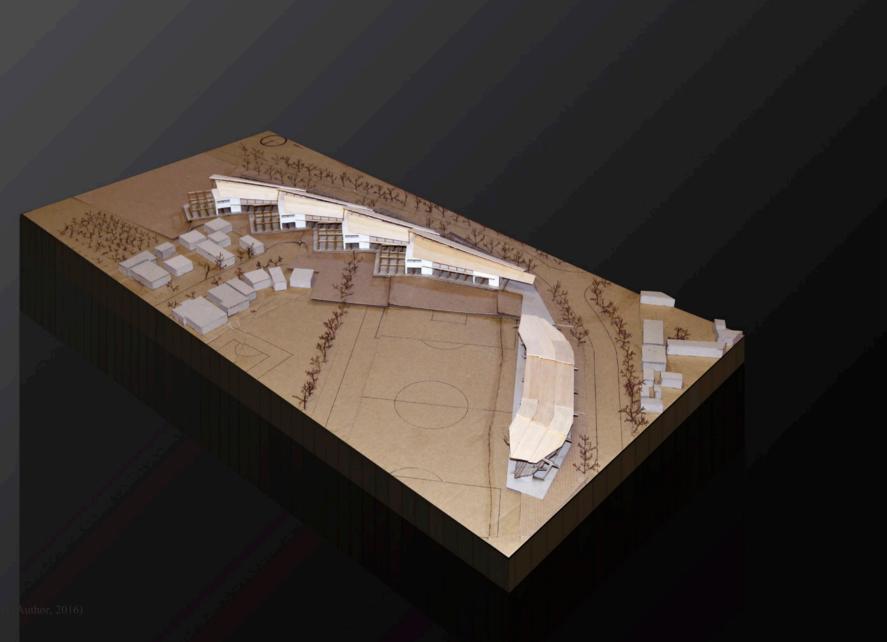


Figure 7.30 Southern Elevation (Author, 2016)

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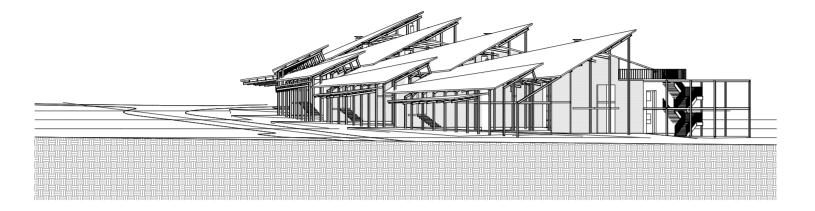


Figure 7.32 Eastern Elevation (Author, 2016)

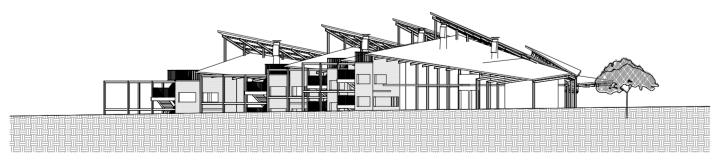


Figure 7.33 Western Elevation (Author, 2016)



Figure 7.34 Iteration 4 model (Author, 2016)





Figure 7.35 Iteration 4 model (Author, 2016)



Figure 7.36 Iteration 4 model (Author, 2016)

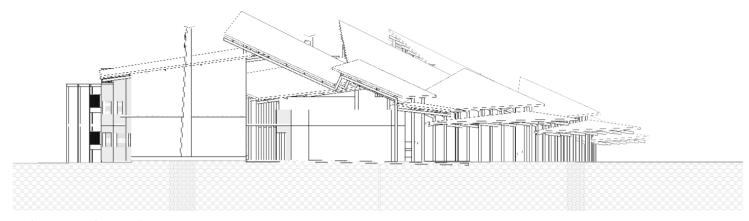


Figure 7.37 Section A-A (Author, 2016)









Figure 7.39 Iteration 4 model (Author, 2016)



Figure 7.40 Iteration 4 model (Author, 2016)



Figure 7.41 Iteration 4 model (Author, 2016)



Figure 7.42 Iteration 4 model (Author, 2016)



PHASE 3 iteration 3 (selected design solution)

Figure 7.43 Iteratio

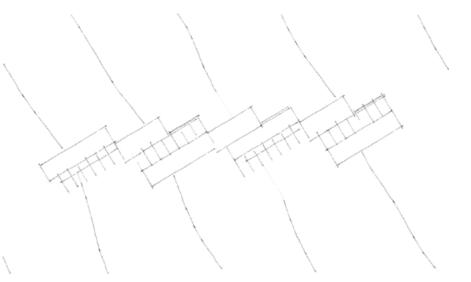


Figure 7.44 Iteration 3 site plan (Author, 2016)

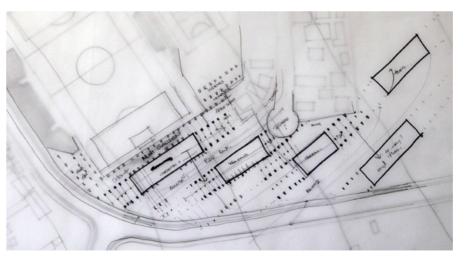


Figure 7.46 Expansion possibilities (Author, 2016)

Figure 7.45 Ground Floor Development (Author, 2016)

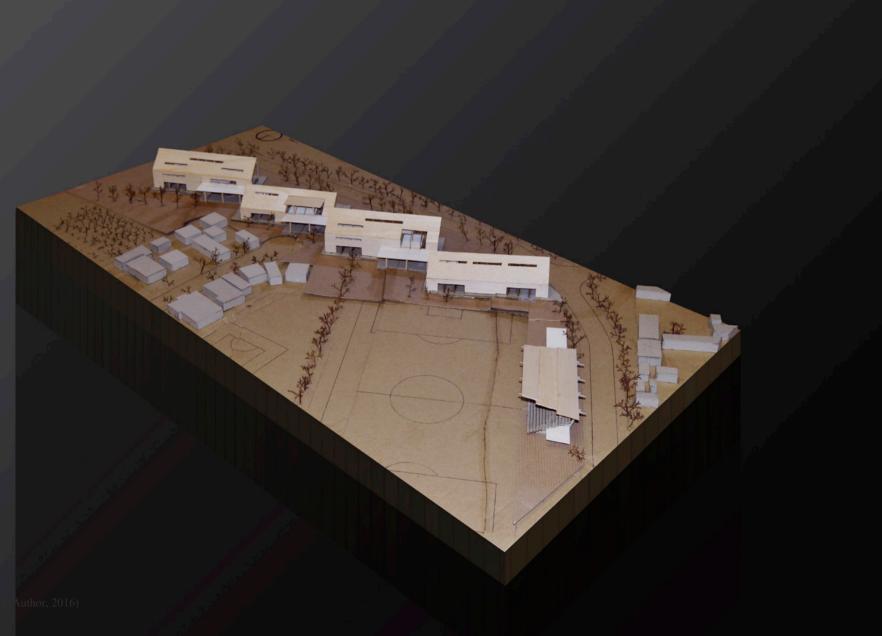


Figure 7.47 Street edge (Author, 2016)





Figure 7.48 Ground Floor Plan (Author, 2016)







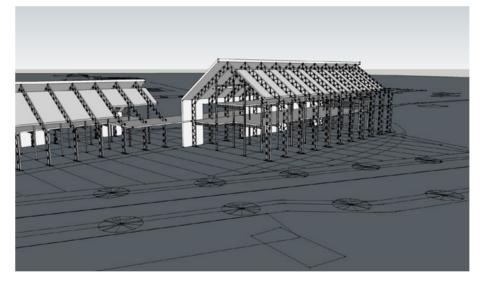


Figure 7.52 Modular Structure (Author, 2016)

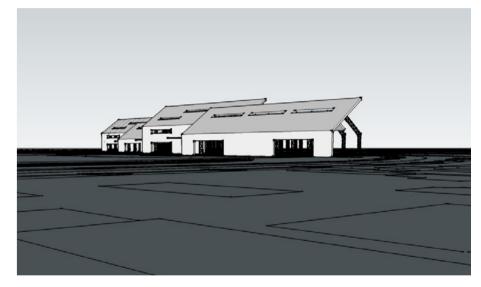


Figure 7.53 School edge (Author, 2016)



Figure 7.54 Iteration 3 model (Author, 2016)

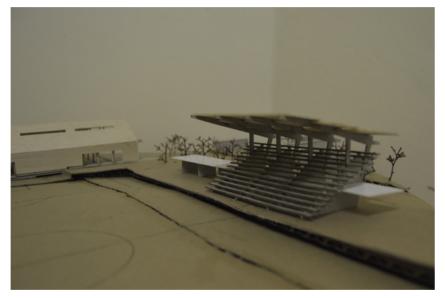


Figure 7.55 Iteration 3 model (Author, 2016)

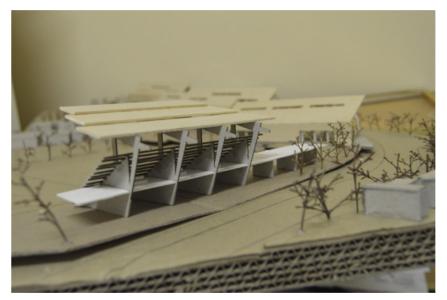
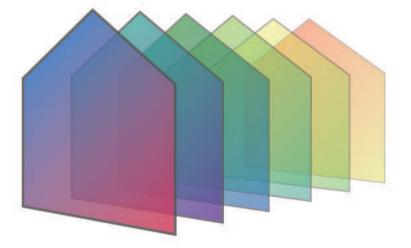


Figure 7.56 Iteration 3 model (Author, 2016)



Figure 7.57 Iteration 3 model (Author, 2016)





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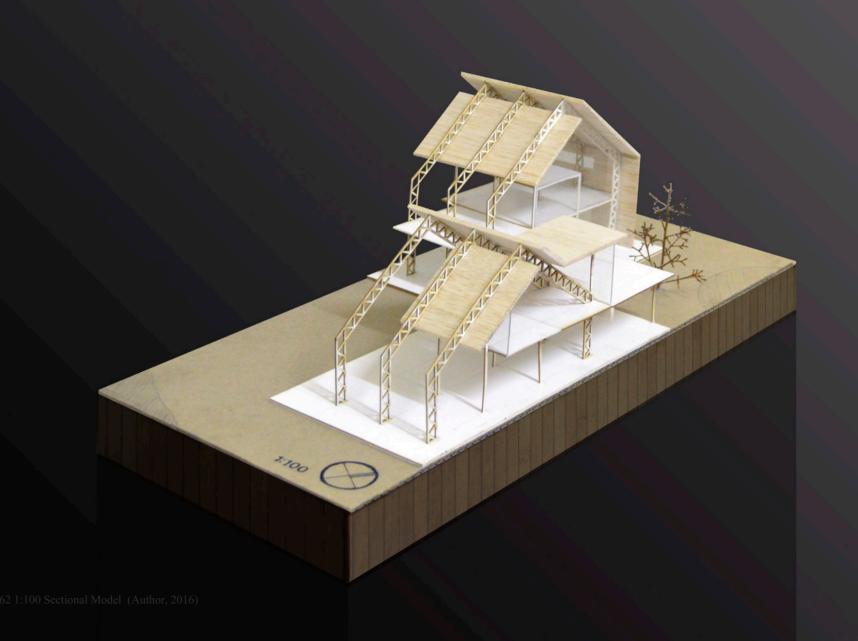
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"Another solution is to entrench technologies which should utilise local and readily available materials and be suited to self-help and semi-skilled labour. Construction must be versatile, economical and contextually responsive" Steyn (n.d.)

Figure 7.59 Technical Approach (Author, 2016)

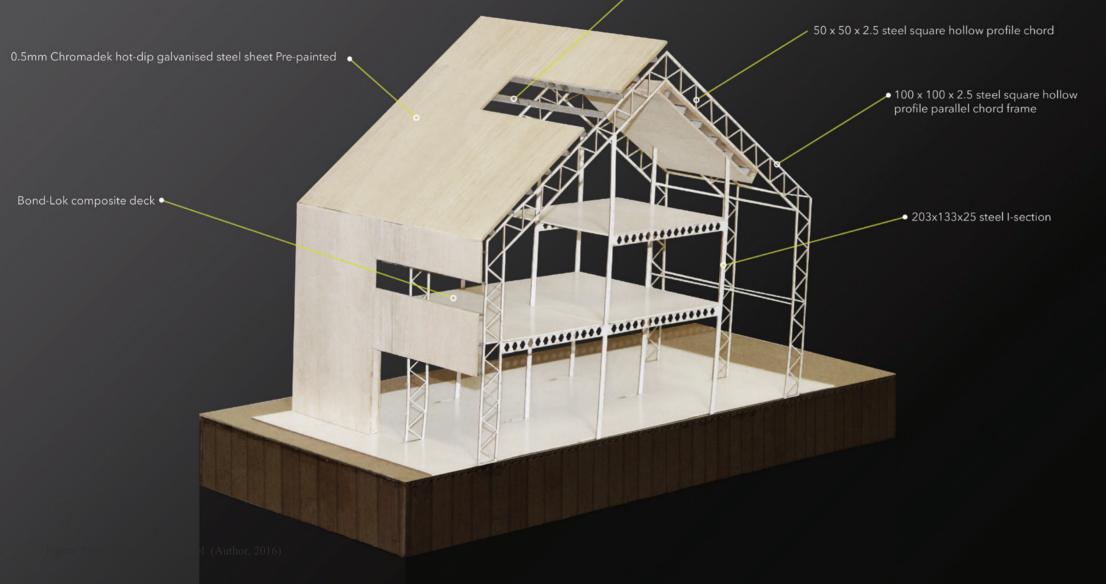






125 x 50 x 20 x 2.5 cold formed steel lipped channel purlin bolted to cleat with 4 x M16 bolts at max 1200 centres





igure 7.64 1:50 Sectional Model (Author, 2016)

1.50 0