



Ethiopian Institute of Architecture Building Construction  
and City Development

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**IMPROVING THE THERMAL QUALITIES OF THE EXISTING  
STREETS OF DIRE DAWA CITY BY USING URBAN DESIGN  
ELEMENTS**

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A thesis submitted to the School of Graduate Studies of Addis Ababa  
University  
for  
the Partial Fulfillment of the Requirement of Master of Science  
Degree in Urban Design and Development

**By:**

**ASMAMAW AYELE**

**ID No: GSR/3118/07**

December, 2016

**ADDIS ABABA UNIVRSITY**

Ethiopian Institute of Architecture Building Construction  
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## **DECLARATION**

I, the undersigned, declare that the Thesis entitled “Improving the Thermal Qualities of The Existing Streets of Dire Dawa City by using Urban Design Elements” is my own original work and has not been presented for a degree in any other university or institution. All sources of material and software used in this thesis work have been duly acknowledged.

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ADVISOR: TIBEBU ASSEFA

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DATE: DECEMBER, 2016

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