

Optimising Daylighting Performance in Tropical Courtyard and Atrium Buildings for Occupants' Wellbeing

Muhammad Syukri Talip¹, Mariam Felani Shaari², Sabarinah Sh Ahmad³, Ricardo B Sanchez⁴

^{1,2,3} Centre of Studies for Architecture, Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA, Selangor, Malaysia.

⁴ National Autonomous University of Mexico, Mexico City, Mexico.

Email of all Authors: syukritalip@ipsa.uitm.edu.my, mariamfelani@uitm.edu.my, sabara40@uitm.edu.my, rsanchez@uaq.mx or united@united-uaq.mx

Tel Author: +60196690045

Abstract

Daylighting has attracted increasing attention from researchers as an energy-efficient and sustainable building design technique. This research investigates the daylighting of atrium and courtyard building by comparing the performance of various Window to Wall Ratios (WWR) appropriate to Malaysia's tropical climate. The most acceptable option for daylight performance was to specify a moderate WWR value of 30% with shading devices. The results of The Radiance Daylighting Simulations confirmed the daylight performance by a comparison of calculated data and modelling. The findings show the combinations of daylighting parameters that work for courtyard and atrium buildings for the occupants' wellbeing.

Keywords: Daylighting Performance, Courtyard, Atrium, Tropical, Radiance Simulations

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1.0 Introduction

Daylight is an environmental benefit an atrium and courtyard can harness for a building. Natural light limits artificial light usage from the atrium and courtyard. It also promotes psychological and ergonomic factors to enhance the interior. Daylight of adjacent rooms is determined by vertical levels of daylight at the walls of the well and room properties (reflections for scale and surface). The geometries of the well and floor reflections are very important. Atrium and courtyard elements directly impact on the vertical levels of the building. Much work on daylight in atria has been based on illumination in the atrium and courtyard well (Du & Sharples, 2011). But studies of daylight levels are less common in adjacent rooms and well walls.

The atrium and courtyard architecture is dynamic and provides relations between multiple criteria that must be grasped and considered in the final design. According to Hussain & Oosthuizen (2012), atrium and courtyard architecture maximizes the natural environment. Many forms can be designed, but atrium and courtyard configurations will still serve as a solution for sustainable climate objectives. Building features can be enclosed in whole or in part of traditional atrium and courtyard architecture. The atrium and courtyard

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