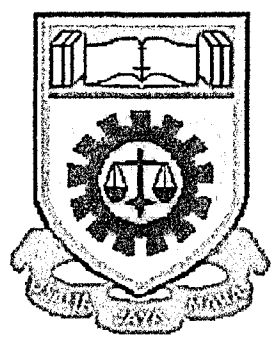
FINAL PROJECT REPORT

B. ENG. (HONS.) IN MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

SCHOOL OF ENGINEERING



INSTITUT TEKNOLOGI MARA
SHAH ALAM
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NEW MATERIAL FOR DUCTING IN AIR-CONDITIONING SYSTEM

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Praise and grace to Allah s.w.t. Creator of the universe for under His command, we manage to complete and present our final project.

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SULAIMAN KAMARI
WAN SHUKRI MOHAMAD

INTRODUCTION

Koolduct LTD presents this specification as a recommended method of fabricating and installing air ducting using foam panels and the Koolduct system as detailed herein. Koolduct makes no warranty, expressed or implied, regarding merchant ability or fitness for any particular installation. This specification is protected by copyright law, and the unauthorised reproduction, or any portion of it, is punishable by law.

The Heating, Ventilation, and Air-Conditioning (HVAC) industry is in the midst of a dynamic era. However, air ducting, a critical component of HVAC system, has remained virtually unchanged since the early 1900's. Several factors and recent innovations have introduced the need to revolutionise air ducting. Building materials and insulating products have dramatically improved.

Requirements for clean air are becoming increasingly stringent. Energy costs have continued to escalate. Changing fire and smoke codes have raised the standards for compliance. Finally, declining construction on a global basis has intensified competition, and accordingly, the search for an alternative technology.