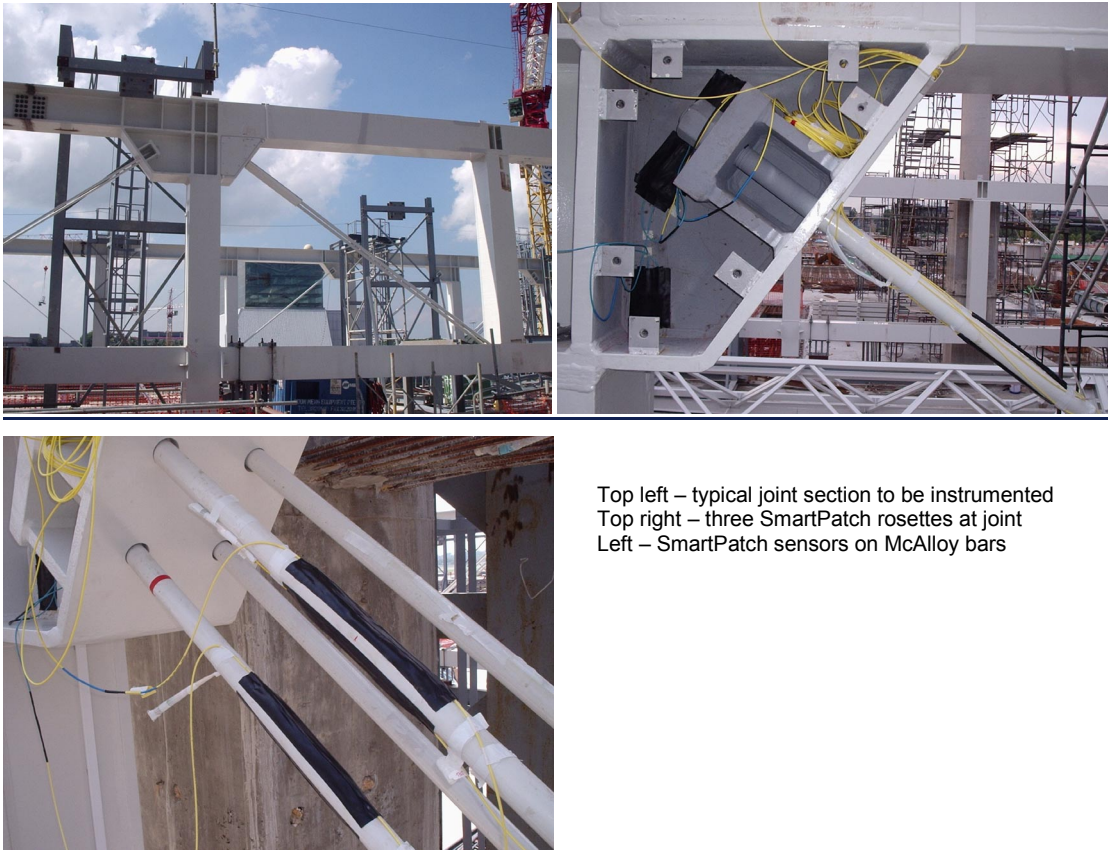


## Airport Terminal Roof SHM

<b>Project</b>	To monitor strain in the McAlloy bars, I-beams and Junctions of the large unsupported roof structure of Singapore Changi International Airport's new third terminal.
<b>Client</b>	CPG Laboratories Pte Ltd
<b>Date</b>	2005
<b>Location</b>	Singapore
<b>Sensors</b>	SmartPatch strain and temperature sensors and SmartPatch rosettes
<b>Attachment</b>	Surface attachment
<b>Interrogator</b>	W4
<b>Images</b>	 <p>Top left – typical joint section to be instrumented  Top right – three SmartPatch rosettes at joint  Left – SmartPatch sensors on McAlloy bars</p>
<b>Results</b>	Multiple sensor arrays were attached to the roof structure sections prior to lifting in place. The client is carrying out a long-term health monitoring campaign, taking periodic measurements with a Smart Fibres W4 interrogation system and doing statistical analysis on the data collected. At the time of writing, results are withheld from publication.
<b>Further information</b>	This document will be updated with results when available for publication. For more information please contact Smart Fibres