

# NS BlueScope Lysaght Malaysia

LYSAGHT® BONDEK II

#### **Structural Decking Installation**

BONDEK® II formwork is normally placed directly on prepared propping. Props must stay in place during the laying of BONDEK® II formwork, the placement of the concrete, and until the concrete has reached the strength of 20 MPa.

Propping generally consists of substantial timber or steel bearers supported by vertical props. The bearers must be continuous across the full width of BONDEK® II formwork

Where the underside of BONDEK® II formwork is featured as a finished ceiling, wide form-ply strips attached to the bearers will minimise marking. The width of the form-ply strips depends upon the slab depth, BONDEK® II metal thickness and spans. Form-ply strips of 300 mm width have been used successfully.



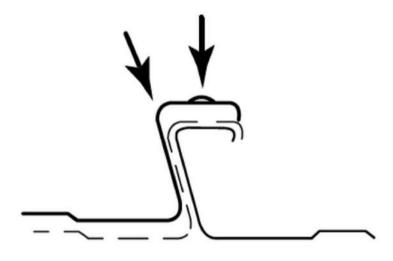




#### **Structural Decking Installation**

#### Method 1

Position BONDEK® II sheet parallel with previously-laid sheet. Interlock sheets by applying pressure to either position.



In the first method, lay adjacent sheets loosely in place. Place the female lap rib overlapping the male lap rib of the previous sheet and apply foot pressure, or a light kick, to the female lap rib

#### Method 2

Position BONDEK® II sheet at an angle. Interlock sheets by lowering sheet through an arc.



Figure 4.2
Two methods of interlocking adjacent BONDEK® II sheets

In the second method, offer a new sheet at an angle to one previously laid, and then simply lower it down, through an arc

If sheets don't interlock neatly (perhaps due to some damage or distortion from site handling or construction practices) use screws to pull the laps together tightly

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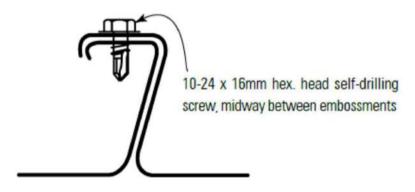
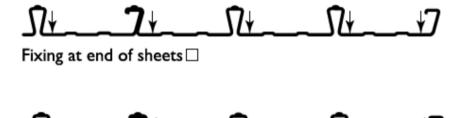


Figure 4.5
Fixing at a side-lap

#### SECURING THE PLATFORM

Once laid, BONDEK® II provides a stable working platform. BONDEK® II shall be fixed to supporting structure at end supports with screws or nails or equivalent.

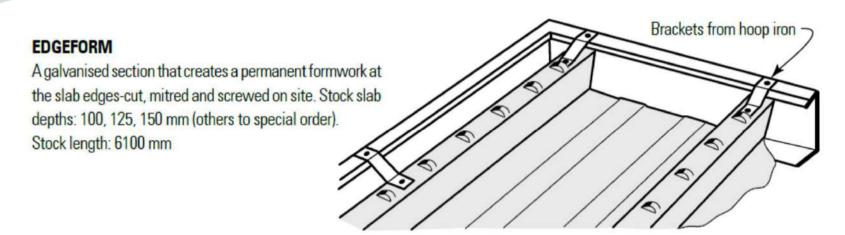


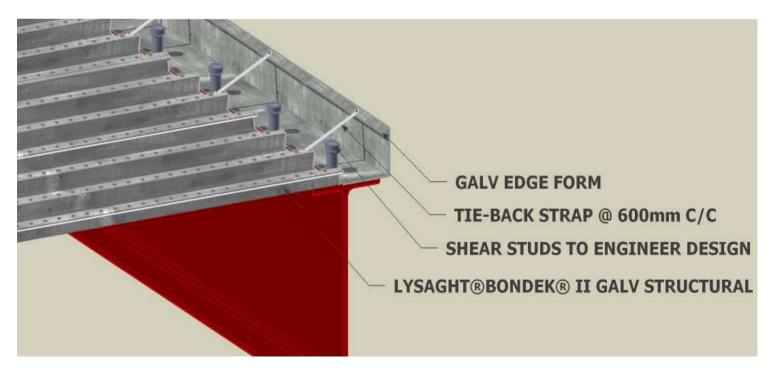
Fixing at intermediate slab supports over which the sheeting is continuous

One fixing system is as follows.

- At the end of sheets: use a fixing at every rib
- At each intermediate slab support over which the sheeting is continuous: use a fixing at the ribs on both edges
- Fix BONDEK® II with drive nails, self-drilling screws or spot welds.

#### **Structural Decking Installation – Edge Form**



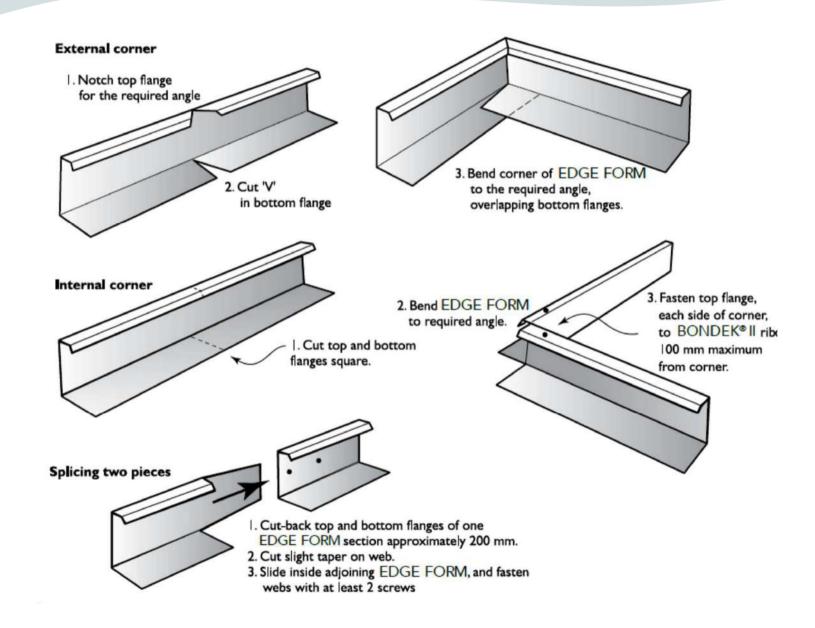


#### **Structural Decking Installation – Edge Form**





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#### **Structural Decking Installation – Sealing**

#### SEALING

Seepage of water or fine concrete slurry can be minimised by following common construction practices. Generally gaps are sealed with waterproof tape or by sandwiching contraction joint material between the abutting ends of BONDEK® II sheet...

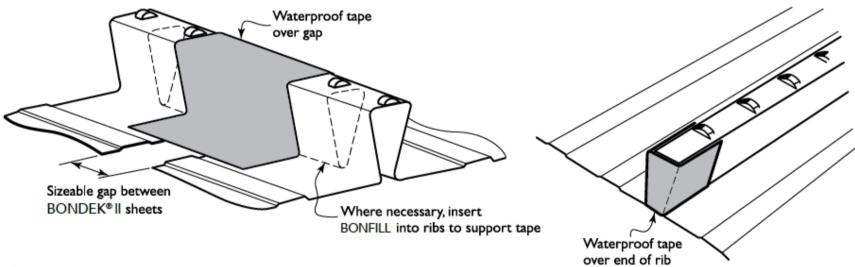


Figure 4.8
Use waterproof tape to seal joints in BONDEK® II sheets



**Load onto transportation** 



Off loaded on site



BONDEK II bundles hoisted onto steel frames



**BONDEK II** can be cut on site using simple tools



Laying is done with no machine aid



Lap the BONDEK II sheets



Secure BONDEK II to steel beams



Provide necessary Propping



**Install Edgeform** 



Lay the reinforcement bars

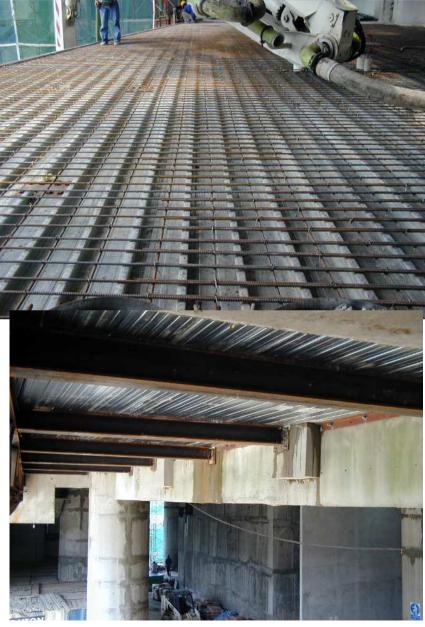


Remove dirt and contaminants



**Pour concrete** 





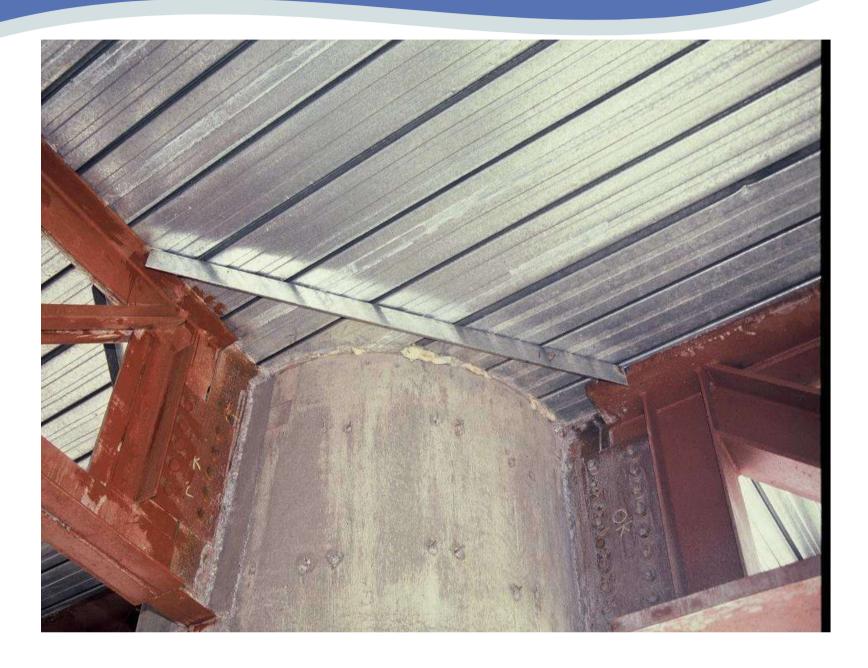


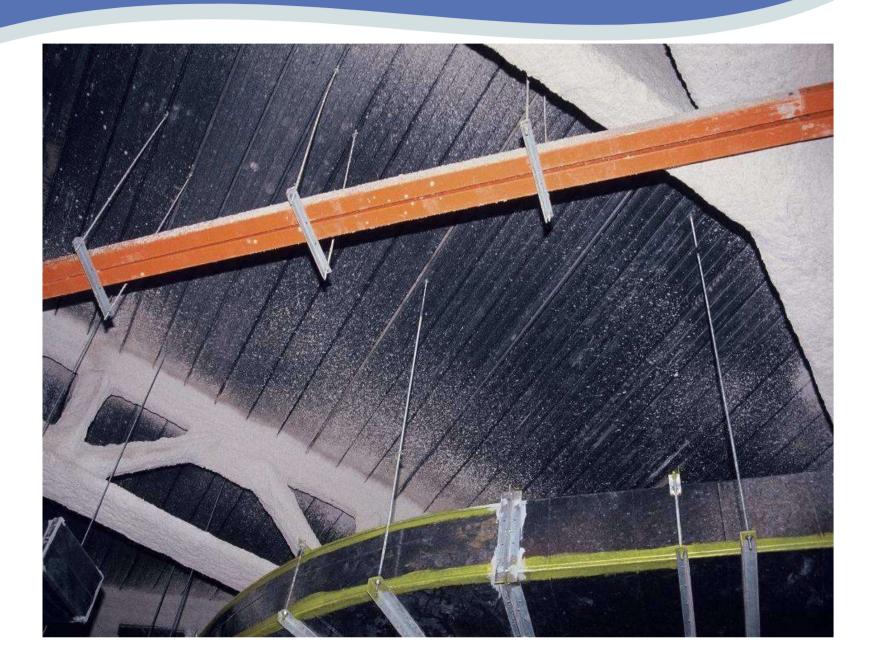
Road bridge in Silk Highway



Under side road bridge in Silk Highway



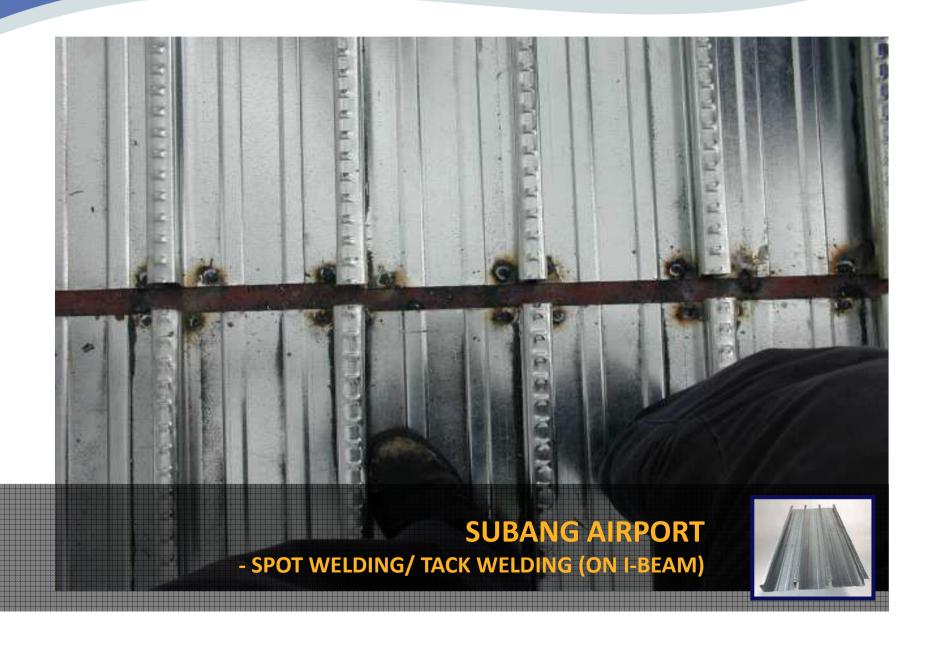








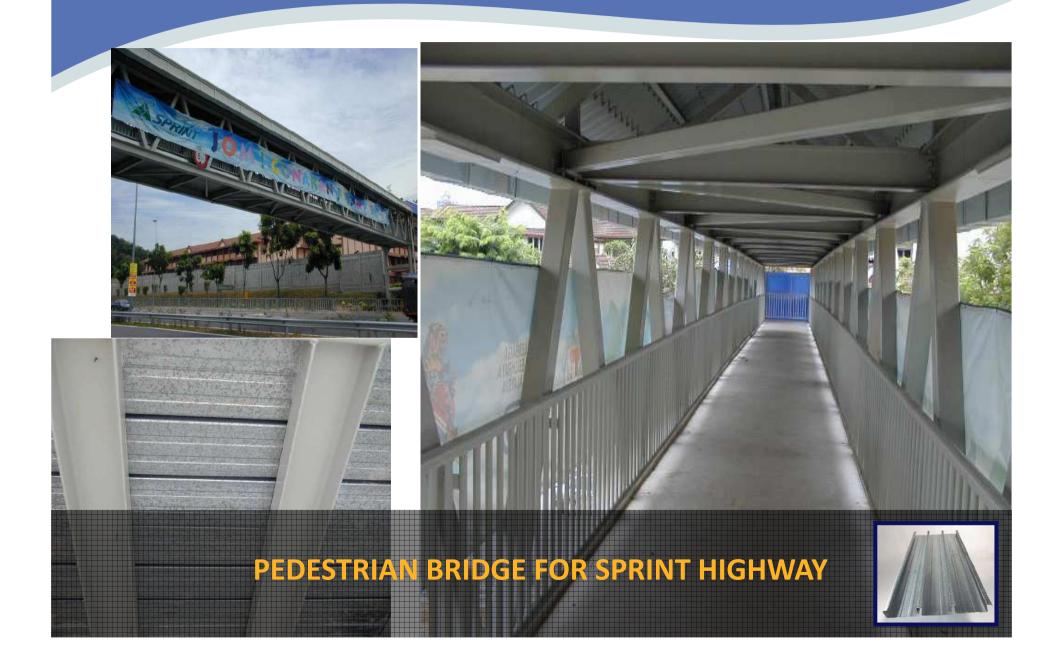




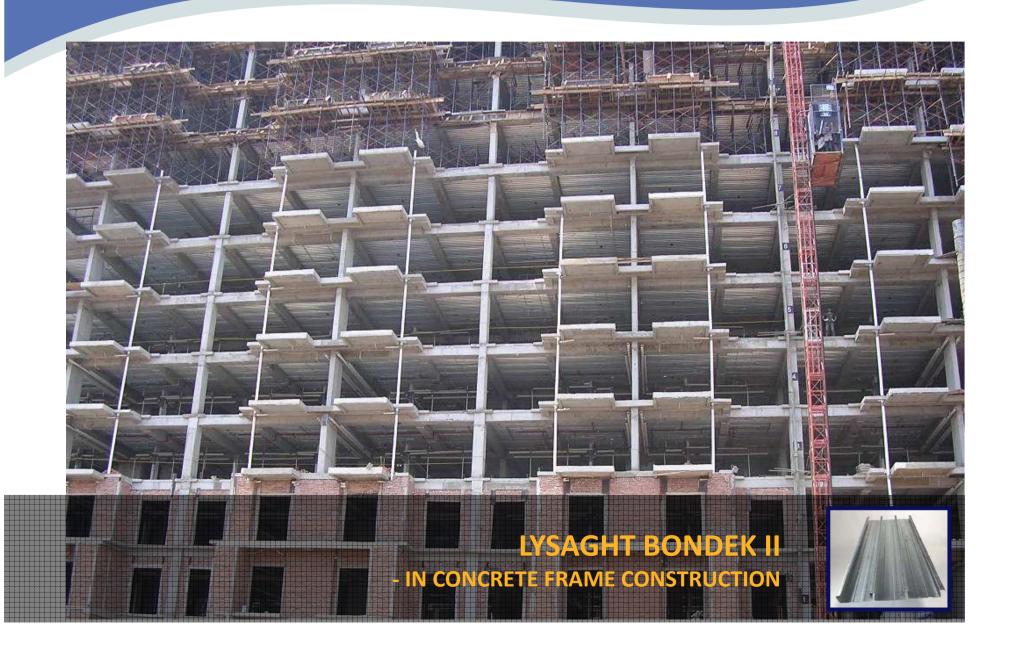


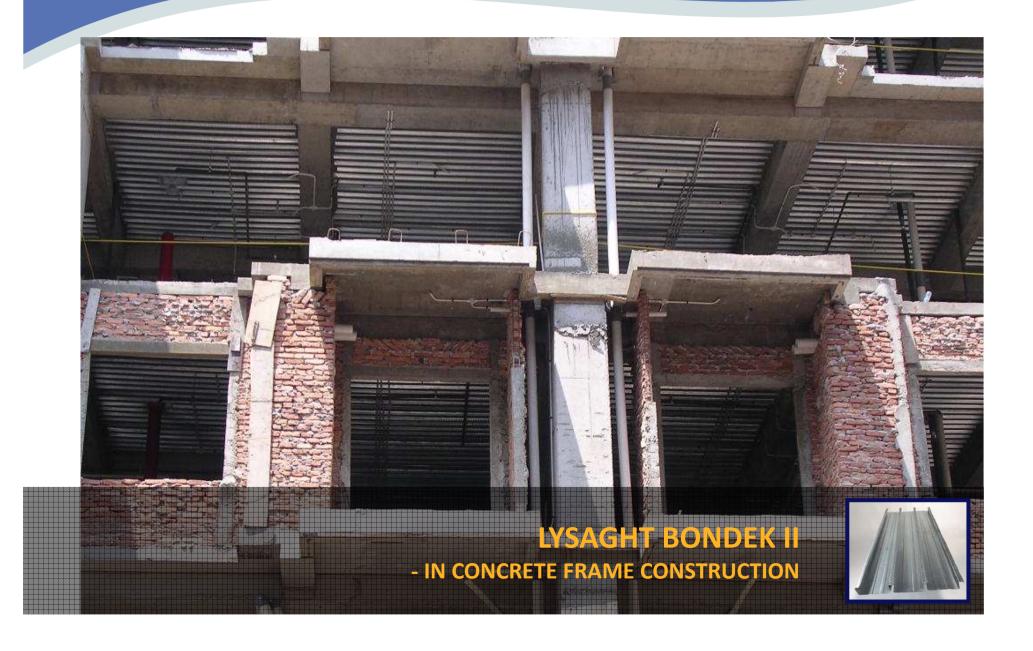
















LYSAGHT BONDEK II
IN CONCRETE FRAME CONSTRUCTION











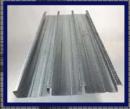




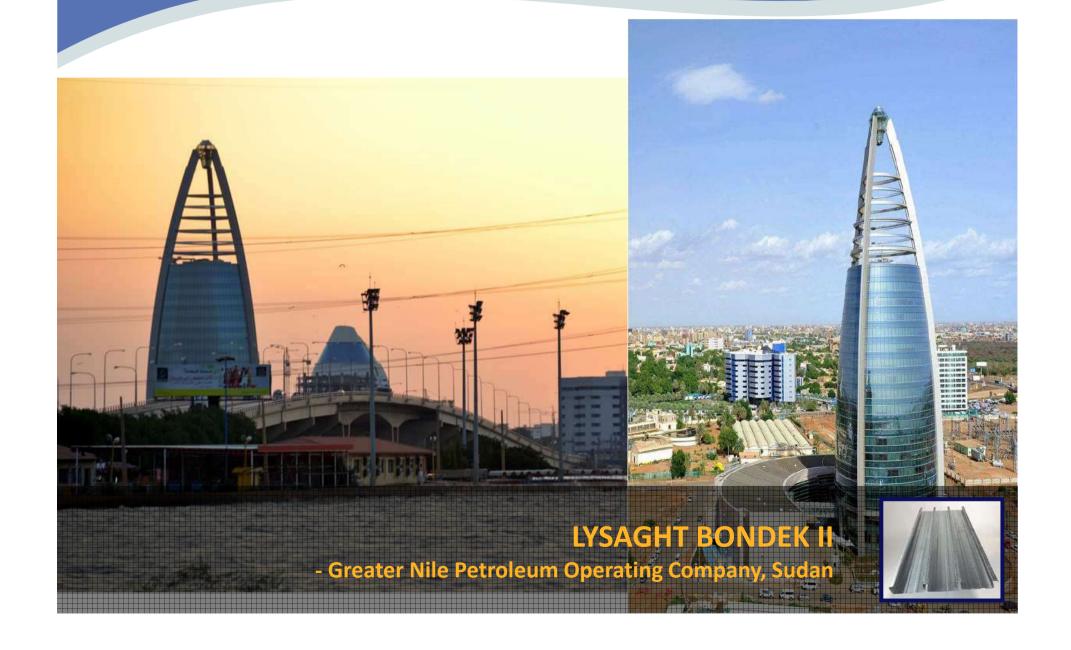


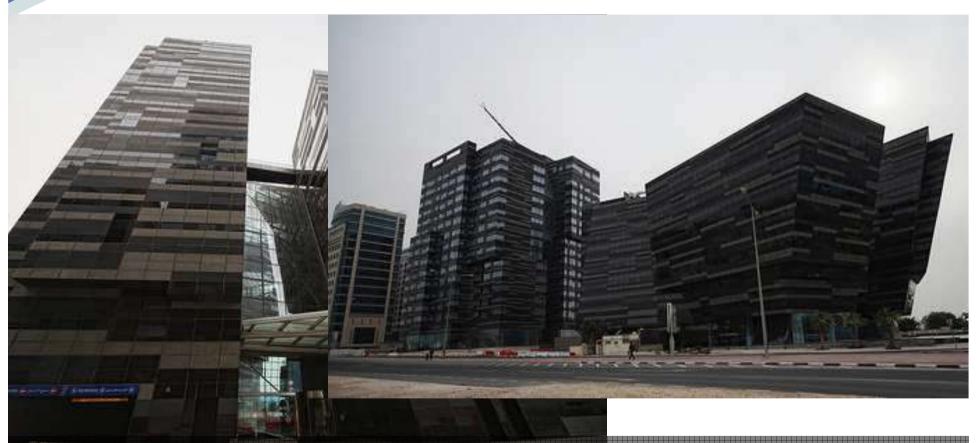


LYSAGHT BONDEK II
BAHRAIN FINANCIAL HARBOUR (CLEAR CONSTRUCTION WORK SITE)

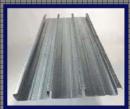


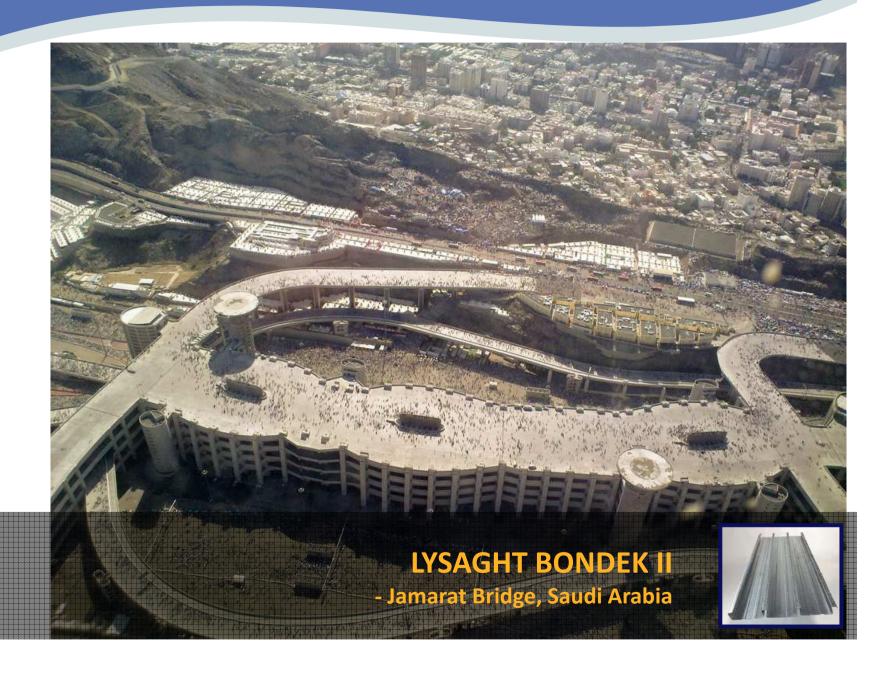


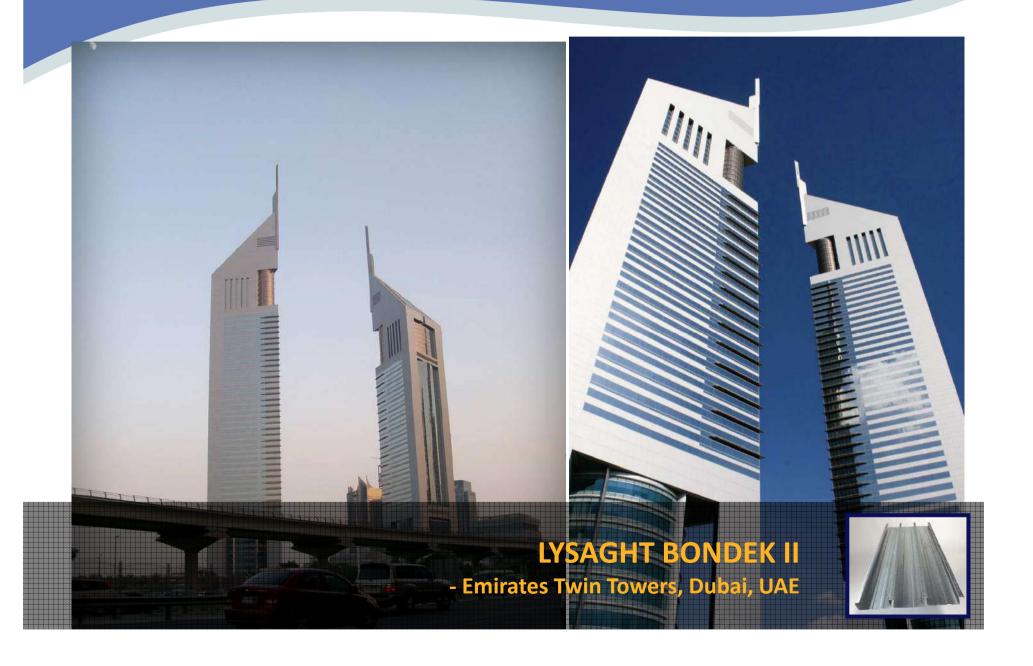


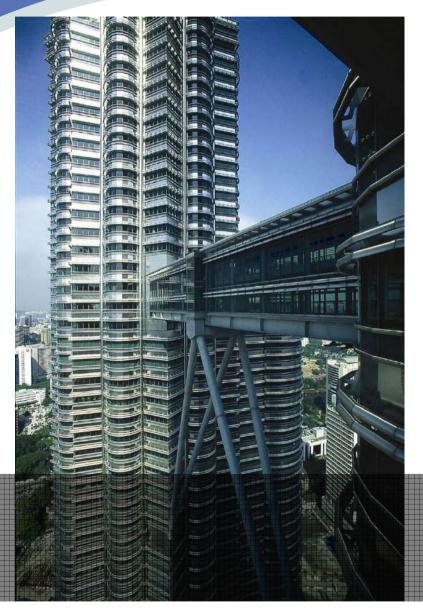


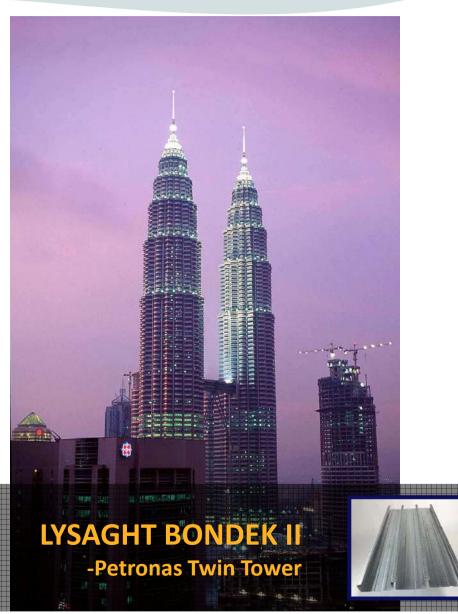
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