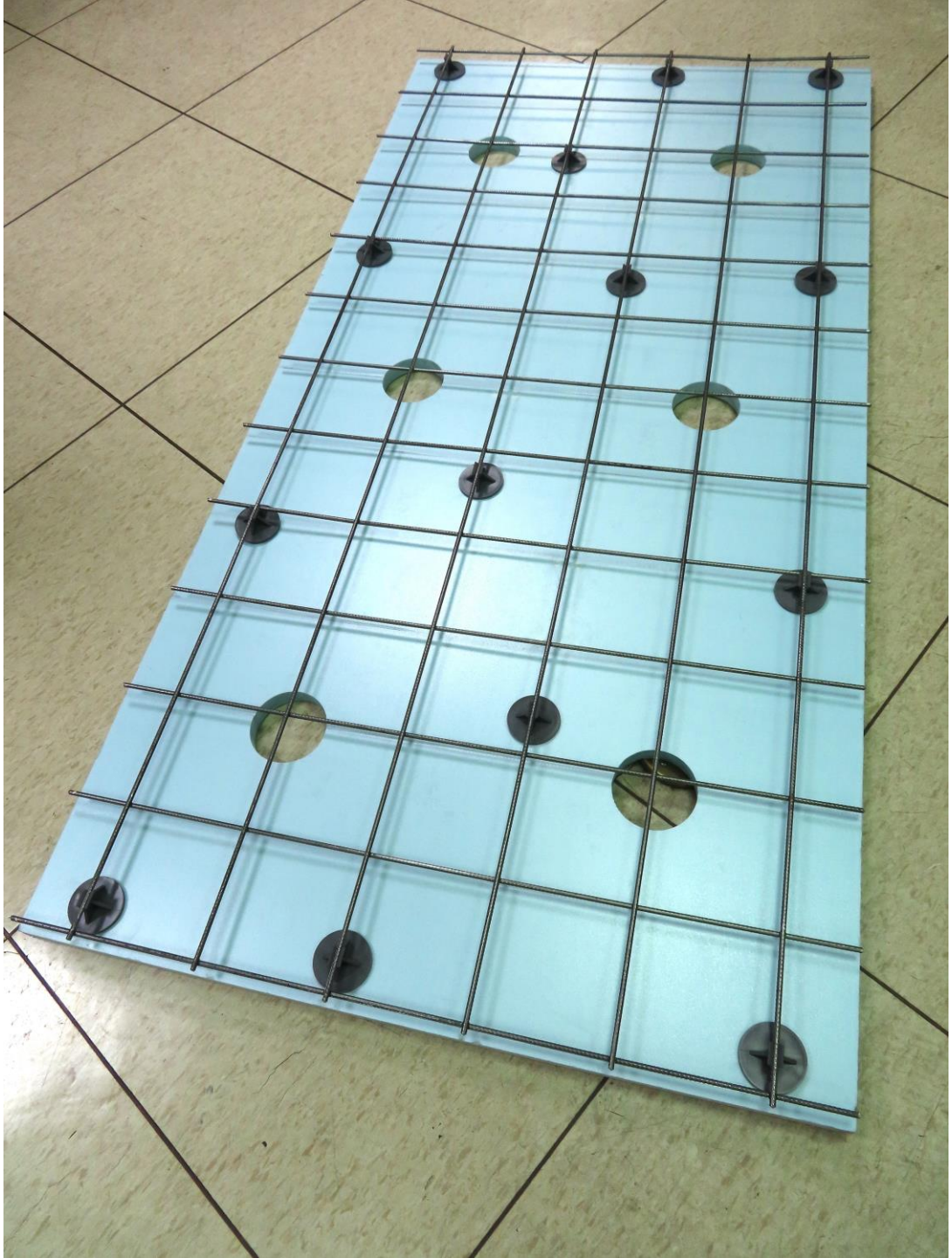
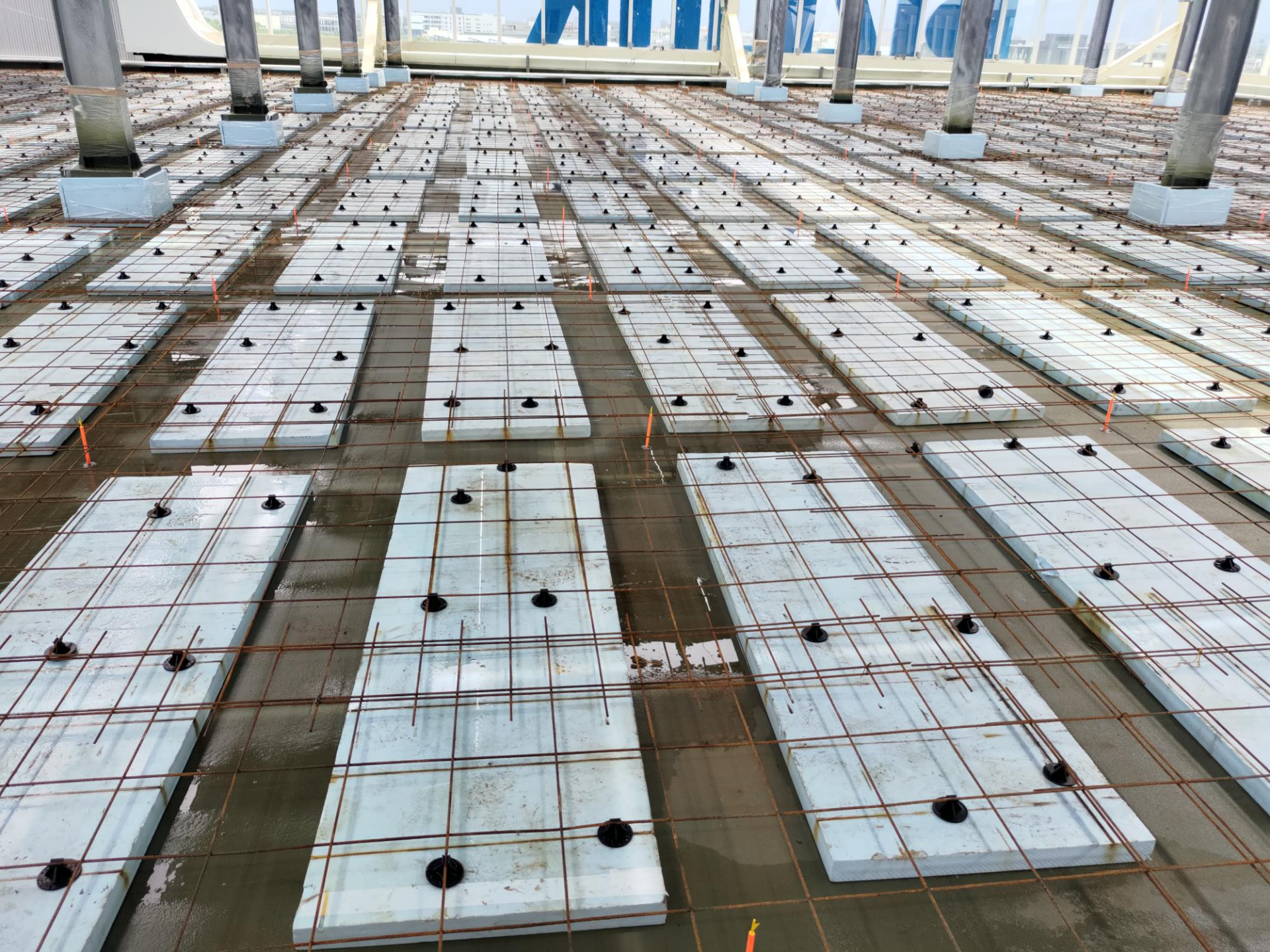
最新屋頂隔熱節能工法

研發人：李琮傑 主講



結構版先防水後鋪設隔熱PS板

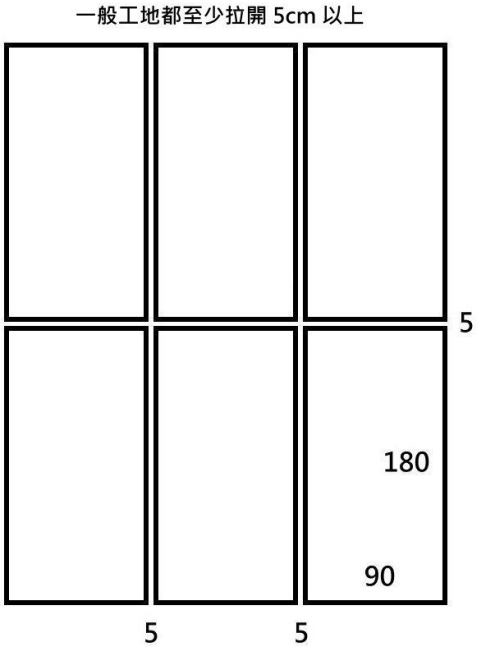


他人隔熱板工法

每一片板材平均分攤
一長邊和一短邊的隙
縫面積

(90+180) x 5 = 1350 cm^2

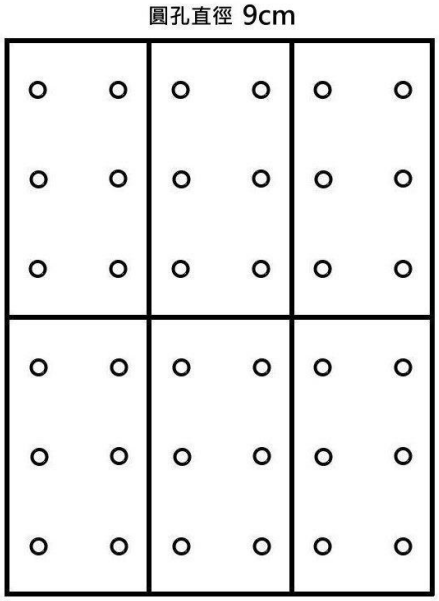
拉開間距之施工方式
隙縫面積是挖孔洞的
3.5倍多，其熱橋效應
使隔熱效果降低不少！



齊步隔熱版工法

每一片板材分攤的隙縫
僅僅是六個孔洞面積

4.5 x 4.5 x 3.14 x 6
= 382 cm^2



Fireproof Thermal Break Wall

齊步屋頂隔熱(3cm) U值 計算示意圖

Heat Conduction Calculation Diagram

$\frac{1}{23}$ 外氣膜

+

$\frac{0.01}{1.3}$ 1cm 磁磚

+

$\frac{0.005}{1.5}$ 0.5cm 黏著劑

+

$\frac{0.03}{1.5}$ 3cm 水泥砂漿

+

$\frac{0.06}{1.4}$ 6cm 混凝土

+

$\frac{0.03}{0.032}$ 3cm 防火PS板

+

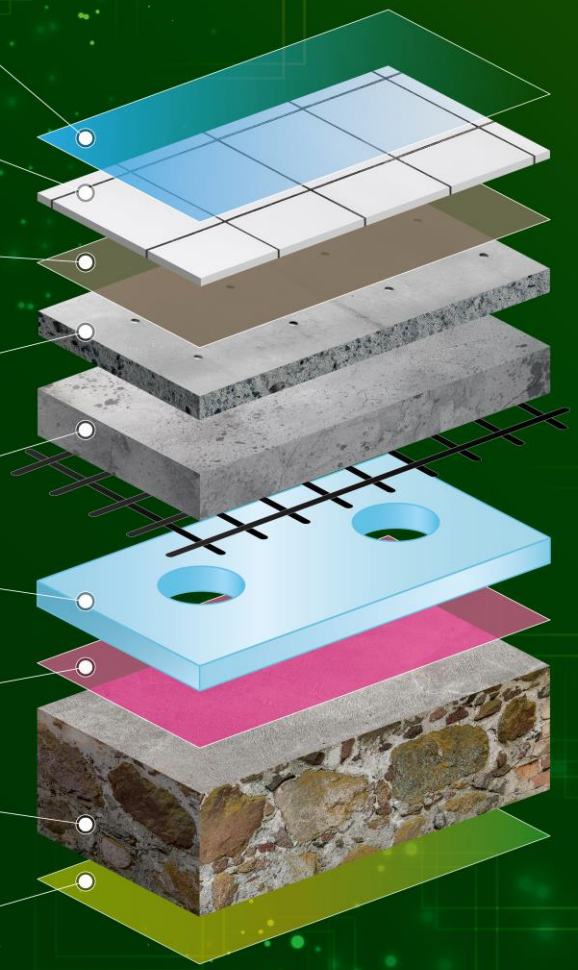
$\frac{0.005}{0.05}$ PU防水層

+

$\frac{0.15}{1.4}$ 15cm 樓板混凝土

+

$\frac{1}{7}$ 內氣膜



以上相加後

1.4048

總熱阻

$\frac{1}{1.4048} = 0.71$ 計算出U值