



sPHENIX INTT

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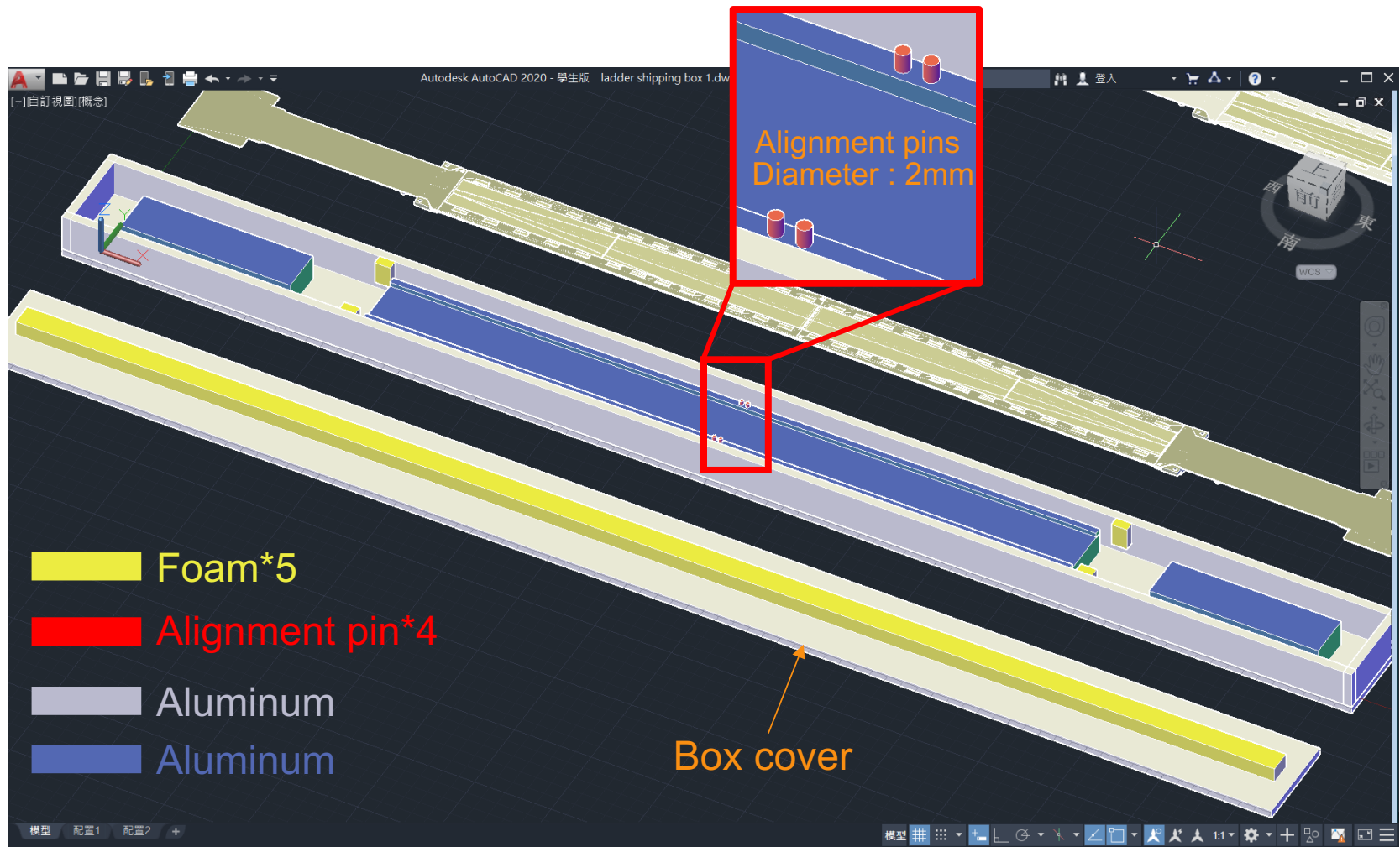
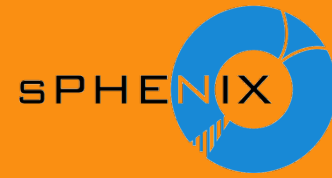
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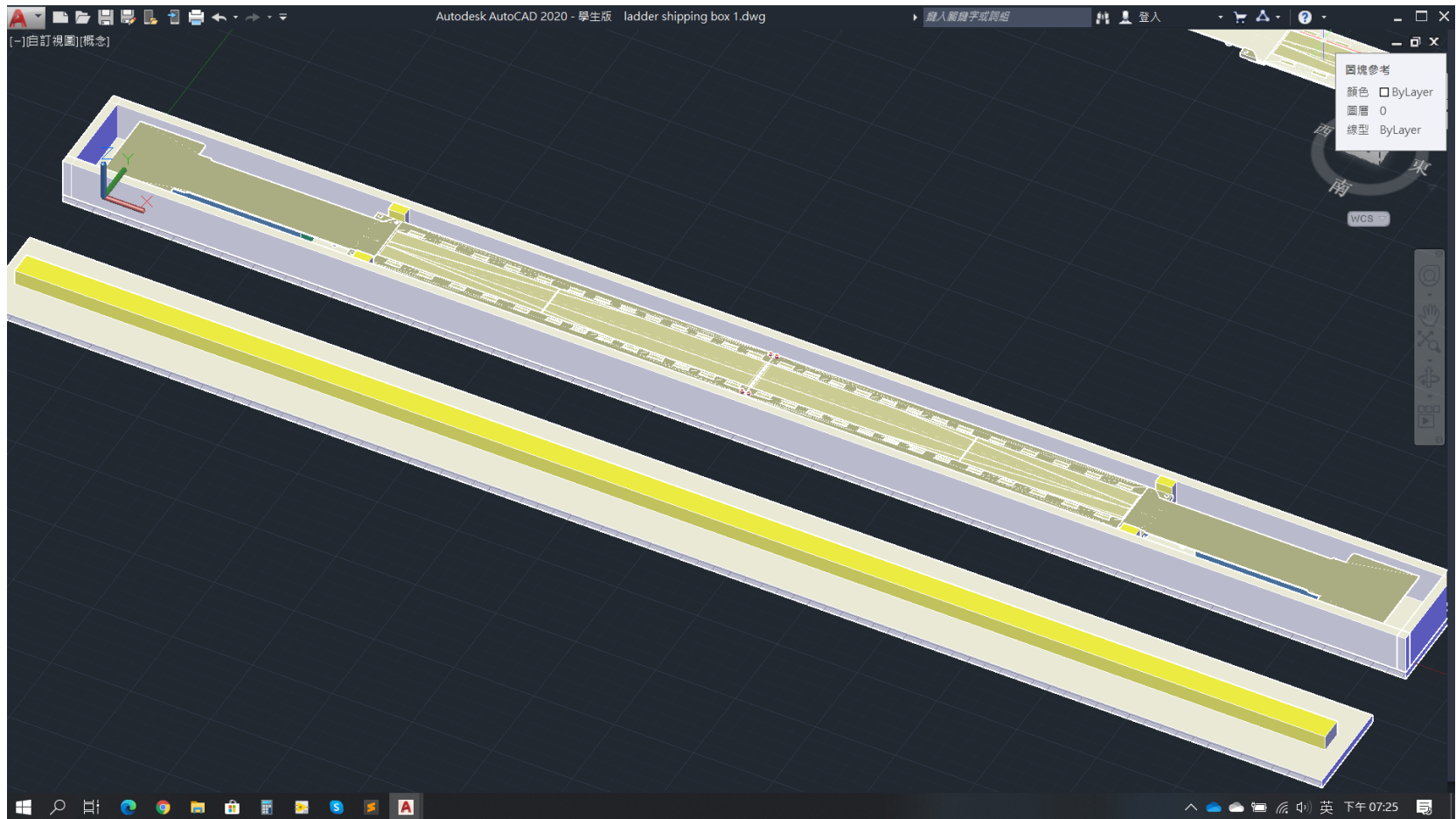
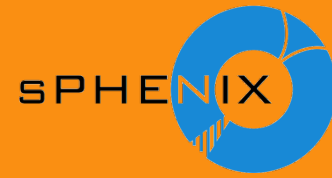


Ladder shipping box design



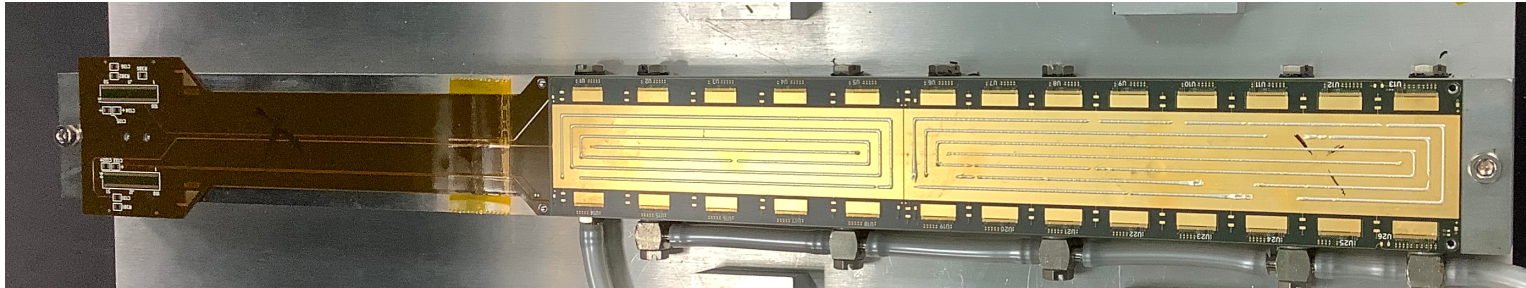


Ladder shipping box design





Dummy sensor assembly



The pattern of the silver epoxy

The weight of used silver epoxy : 0.59 g

*The density of TRA-DUCT 2902 : 3.2 g/cm³

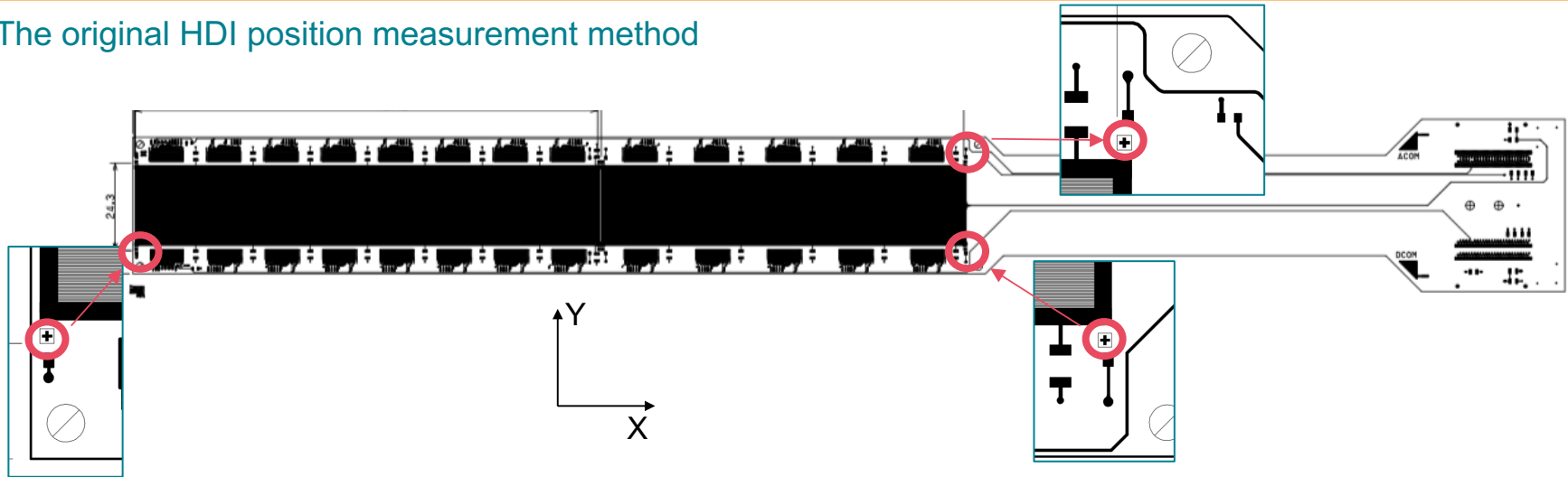
→ volume : 184 mm³, => $\frac{3680 \text{ mm}^2}{S_{\text{apply}}} * 50 \text{ } \mu\text{m}$

Effective thickness $t_{\text{eff}} = t \times (S_{\text{apply}}/S_{\text{si}})$, $S_{\text{si}} \sim 5236 \text{ mm}^2$ *from Genki's report
= 50 μm X 0.7028
~ 35.14 μm

t_{eff} of BNL case : ~ 14 μm

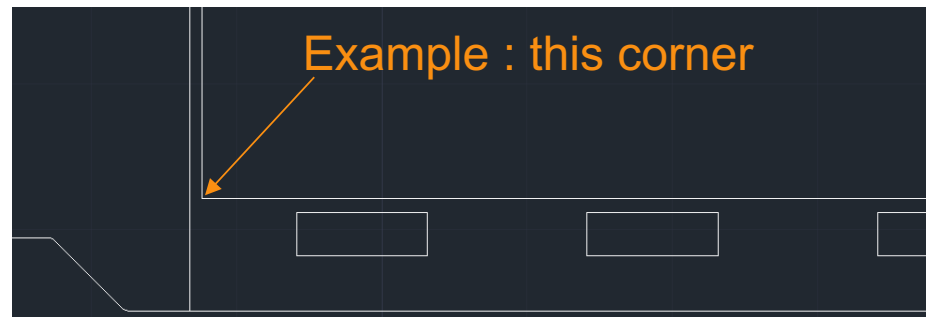
*The density of epoxy : <https://arxiv.org/pdf/1508.05912v2.pdf>, page 6

The original HDI position measurement method



There are about $150\ \mu\text{m}$ placing error in Y axis.....

Plan : measure the corner of the sensor slot



Question 2, the plan to apply the omega 100 for the stave – HDI gap in BNL

Working time : 6 ~ 12 mins after mixing



To do list



- Produce dummy module
- Test module assembly
- Produce third real module
- Produce first real ladder

Back up



The photo of OMEGA 100 SPHENIX



The datasheet : <https://assets.omega.com/manuals/M0065.pdf>

