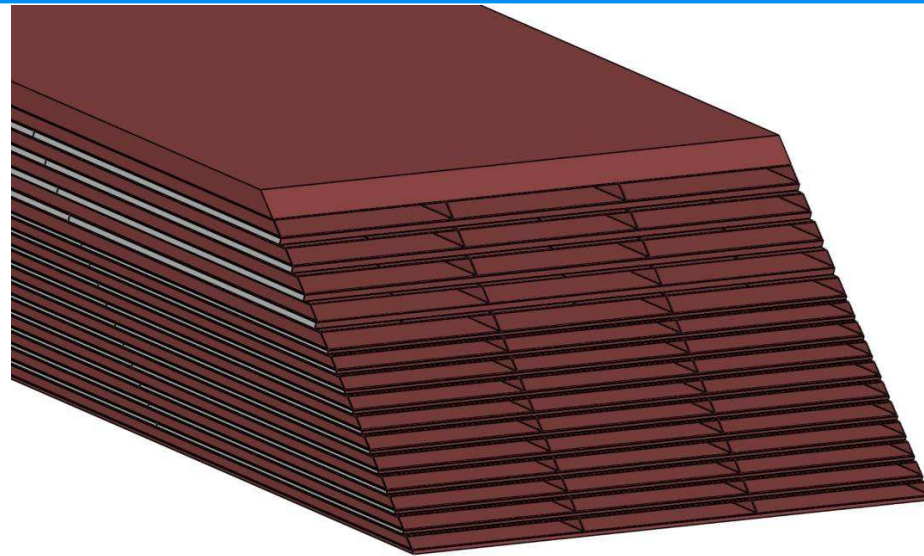


ECAL MECHANICAL R&D



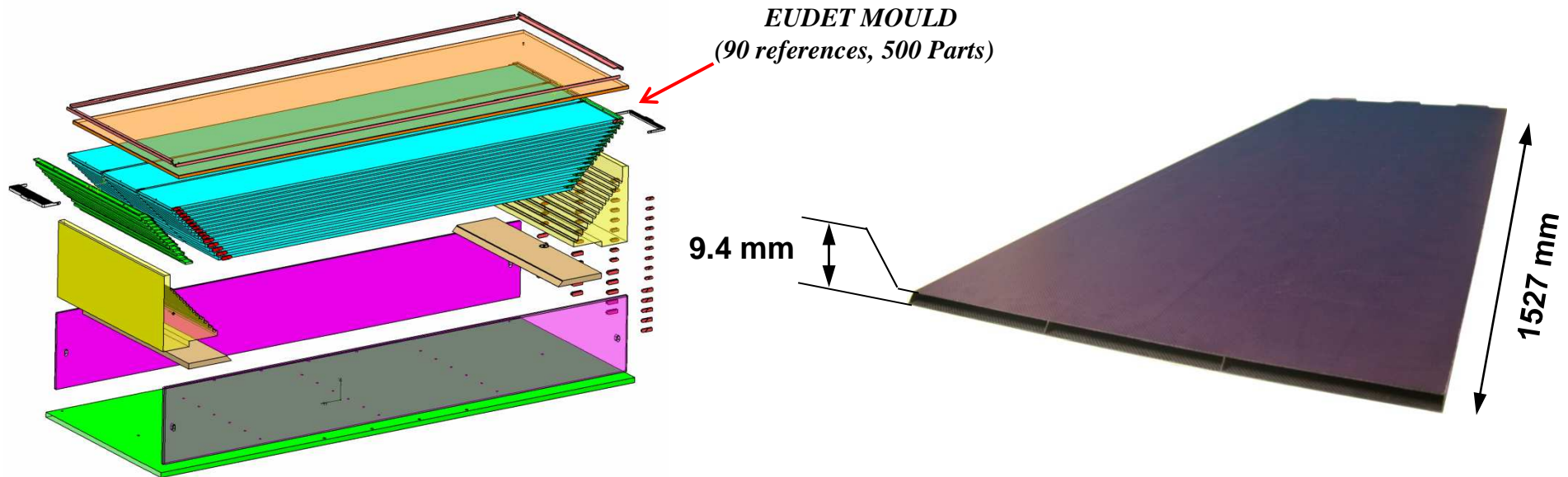
EVO



LIR

EUDET- Assembly Mould

Now, here is the EUDET assembly mould With the first EUDET layer :



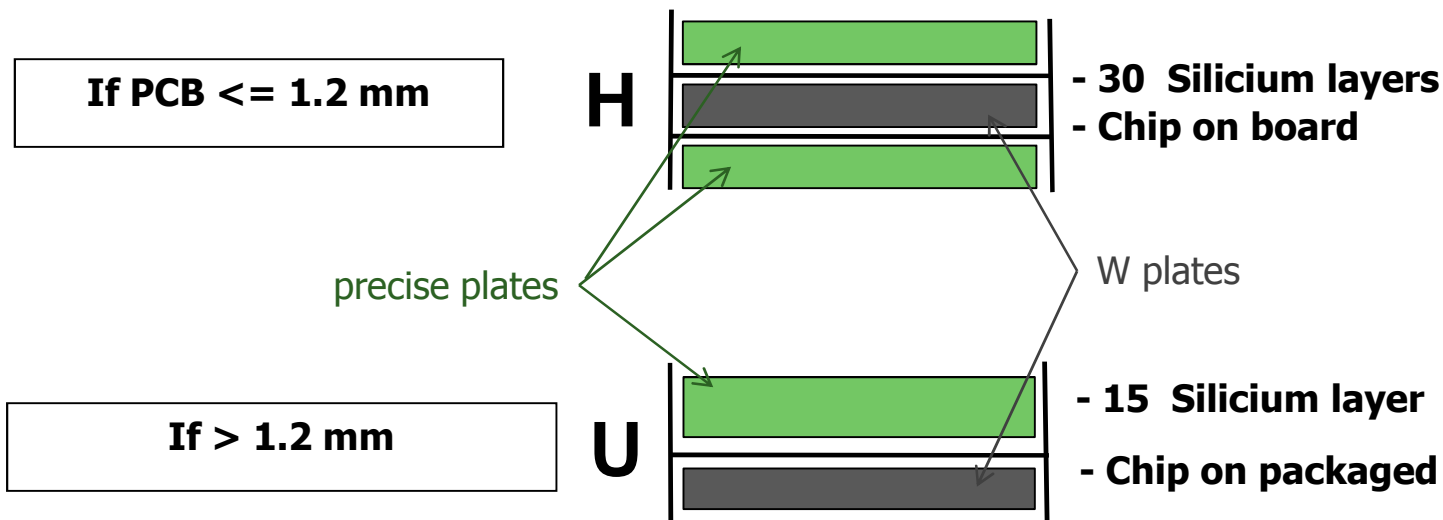
- ⇒ Global design : **OK**
- ⇒ W and Carbon Needs : **OK**
- ⇒ Detailed design description : **OK**
- ⇒ Technical drawing : **OK**
- ⇒ Ordered : **MARS 10**

- ⇒ Global design : **OK**
- ⇒ 1/15 "Alveolar EUDET layer" : **OK**
- ⇒ Cutting Layer operation: **OK**
- ⇒ The supplier for cutting layer : **OK**
- ⇒ Layers Production : **Mars 10**

EUDET H or U SLAB

Study of one mould for whole slab structures:

- All slabs are made by several short but **precise plates**, assembled in 2 layers, in order to control the thickness and the flatness



Building an other MOULD

- 2 months
- 3 k€

- ⇒ Design and Machining: **OK**
- ⇒ first H structure (1300×124): **OK**
- ⇒ EUDET short and long H SLAB: **second half-year 2010**
- ⇒ EUDET short and long U SLAB: **second half-year 2010**

Conclusion : schedule

- For Eudet module :
 - Composite reception **realized in april (2008)**
 - "Alveolar layer" mould reception **realized in april (2008)**
 - Building one EUDET alveolar layer in **July (2009)**
 - "Assembly mould" design in **February (2009)**
 - We will plan:
 - 14 alveolar layers in **first half-year (2010)**
 - Eudet structure assembled in the **Second half-year (2010)**
 - "14" H or U Short structure in **second half-year (2010)**
 - "1" H or U long structure in **second half-year (2010)**