

Aachen Production Site



Chamber Production Status @ Aachen

❖ Superlayers:

	End 2003	Status 28.04.04
Mechanics	123 SL	149 SL
Completely tested	113 SL	132 SL
HVB available for		132 SL**

**HVB from ISR chambers available since 26.04.04

HVB material for 27 SL
→ For 10 more SL once SL backlog is cleared

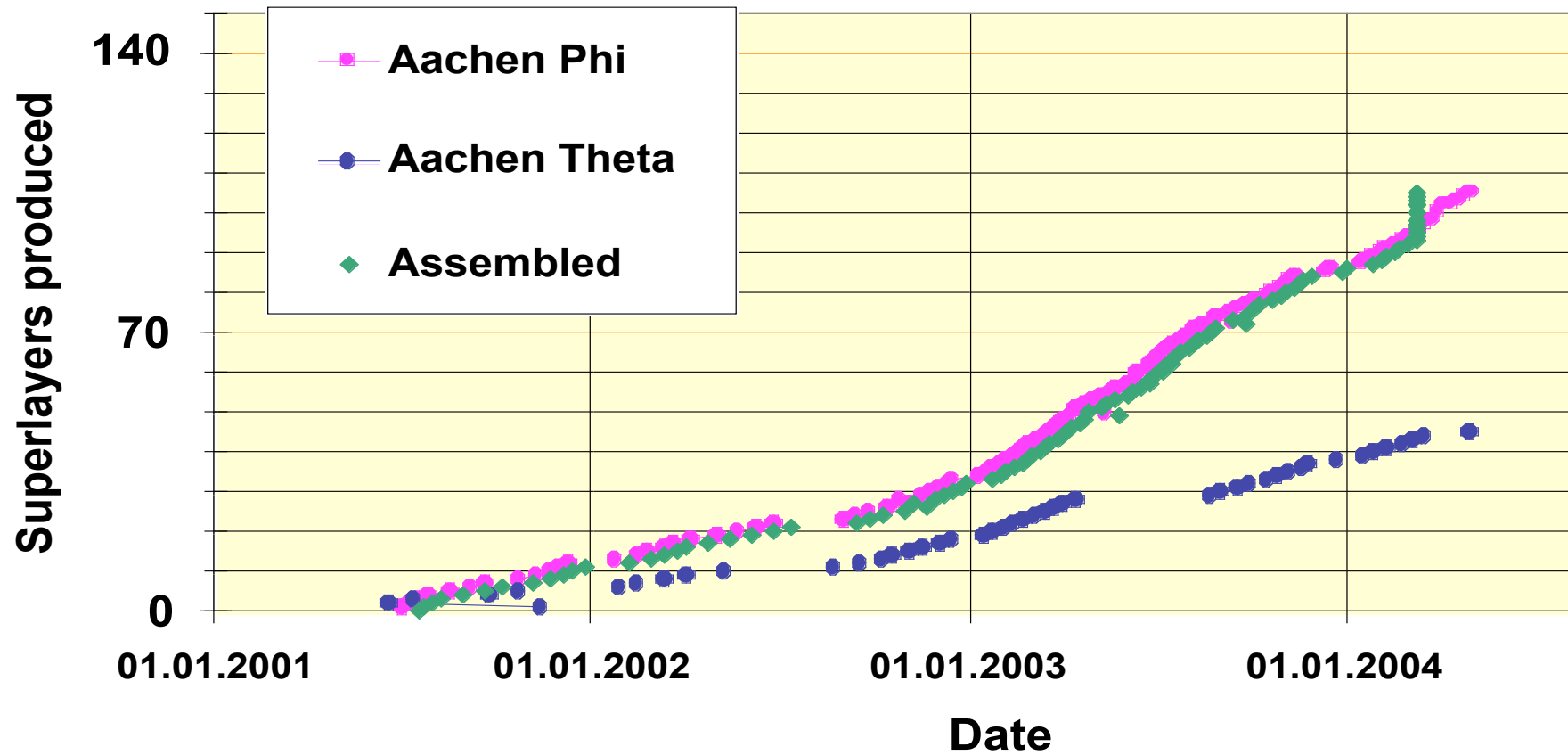
→ Until ~end June 2004

→ Sufficient for chimney chambers. No further MB1

❖ Chambers

	End 2003	Status 15.03.04
Package of 3 SL + HC	38	44
Really glued chambers	36	44

Production of SL



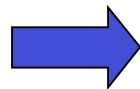
Chambers and HVB_XXX

- 44 Chambers completed

- Out of which:

8 chambers at Aachen

→ wait for HVB_F to exchange HVB at Aachen



Next shipment (with HVB_F installed)
not before Sept/Oct 2004

36 chambers at the ISR

→ 9 chambers with HVB_I for installation IA

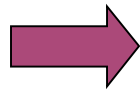
4 chambers to be done HVB_I or HVB_F
for installation I-b

23 chambers to be done (wait for HVB_F)

Exchange of HVB @ ISR

Experience from first large-scale HVB exchange

- Time: 2 people for 8 days → 9 chambers (incl. 3 feet chambers)
- Chambers still to be re-tested → if OK 5, MB1 + 2 Feet chambers available for installation I-a



Realistic time estimate for HVB exchange:
1 day / chamber for 2 people

+ time for testing (gastightness, cosmics)

+ time for potential repairs

Modifications: Mylar,
last (un-used) cell
electr. disconnected

- For remaining 23 chambers ~ 1 month (2 x 2 weeks)
- Noticed bad quality of old O-rings → will be exchanged (week 19)

For installation: allow a ‚back-up‘ chamber (same type, same services etc.) if problems with a particular chamber during (or just before) installation

Special Chambers

- **Chimney chambers** (2 chambers)

Preparation of production tools complete

Production planning:

Mechanics	mid June `04
Assembly + SL test	mid July `04
Chamber gluing RPC holder if finalized	mid/end July `04
HVB exchange	September `04 (?)
Second test of SL and chamber	October `04
Shipment to CERN	with other chambers ?? end 2004

- **Feet chambers** (10 + 1 chambers)

- 5 chambers completed

- for 3.5 chambers SL exists, no HVB, chamber can be glued when HVB and tests are completed

- 2.5 chambers to be done (plates missing)