

*Pianificazione lavori per studi delle
deformazioni indotte dalla tensione
della mesh*

Obiettivi

- Studio deformazioni indotte dalla tensione della mesh
- Confronto fra dati e simulazioni meccaniche
- Validazione simulazioni meccaniche
- Studio metodi di compensazione delle deformazioni

Realizzazione pannelli con mesh

- Definizione delle dimensioni
- Definizione disegni delle cornici e metodo di incollaggio
- Pianificazione delle misure (dove? come?)

MATERIALE E STRUMENTAZIONE A DISPOSIZIONE

MESH ORDINATE AL CERN (Seritec via Rui)

- mesh "in roll" (no frame) : 100x400 cm² (Test Stretching + Protot.LNF -- RM3)
- pre-stretched mesh 100x100 cm² (free area) ONE FRAME (prototipo -- LNF)
- pre-stretched mesh 100x220 cm² (free area) FOUR frames (protot.mecc. -- PV)

MESH STRETCHER RM3

foto



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E info@seritec.ch

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Devis n° 131506

CERN Site de Meyrin /031
M. Rui de Oliveira
102- P - 018
Batiment 102
1211 Genève 23

COMMANDE NO :
CONCERNE:

Corseaux, le 26 novembre 2013

Monsieur,

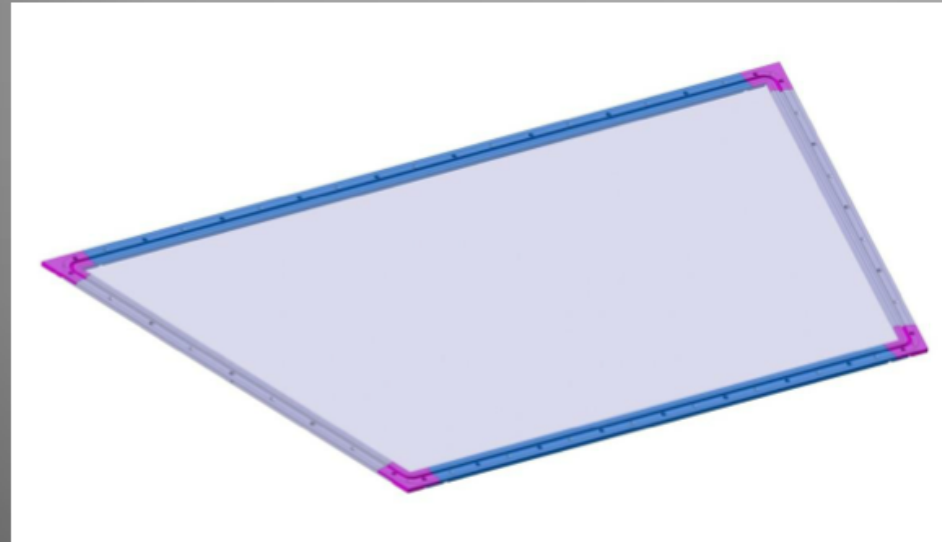
Selon votre demande, veuillez trouver notre meilleure offre pour:

n°	Désignation	Qté	Prix u.	Prix net
1	CADRE ALUMINIUM HURZ 105 X 105 50/ 40 MM	1.00	140.00	140.00
2	CADRE ALUMINIUM HURZ 225 X 105 SLOPE 50/40/38 3.5/2.0	4.00	180.00	720.00
3	TISSUS METALLIQUES 325 MESH 50/30	4.00	138.00	552.00
4	TENSION TISSUS METALLIQUE 105 X 225	4.00	180.00	720.00
5	TENSION TISSUS METALLIQUE 105 X 105	1.00	120.00	120.00
6	TISSUS POUR LES 5 CADRES	11.00	138.00	1'518.00

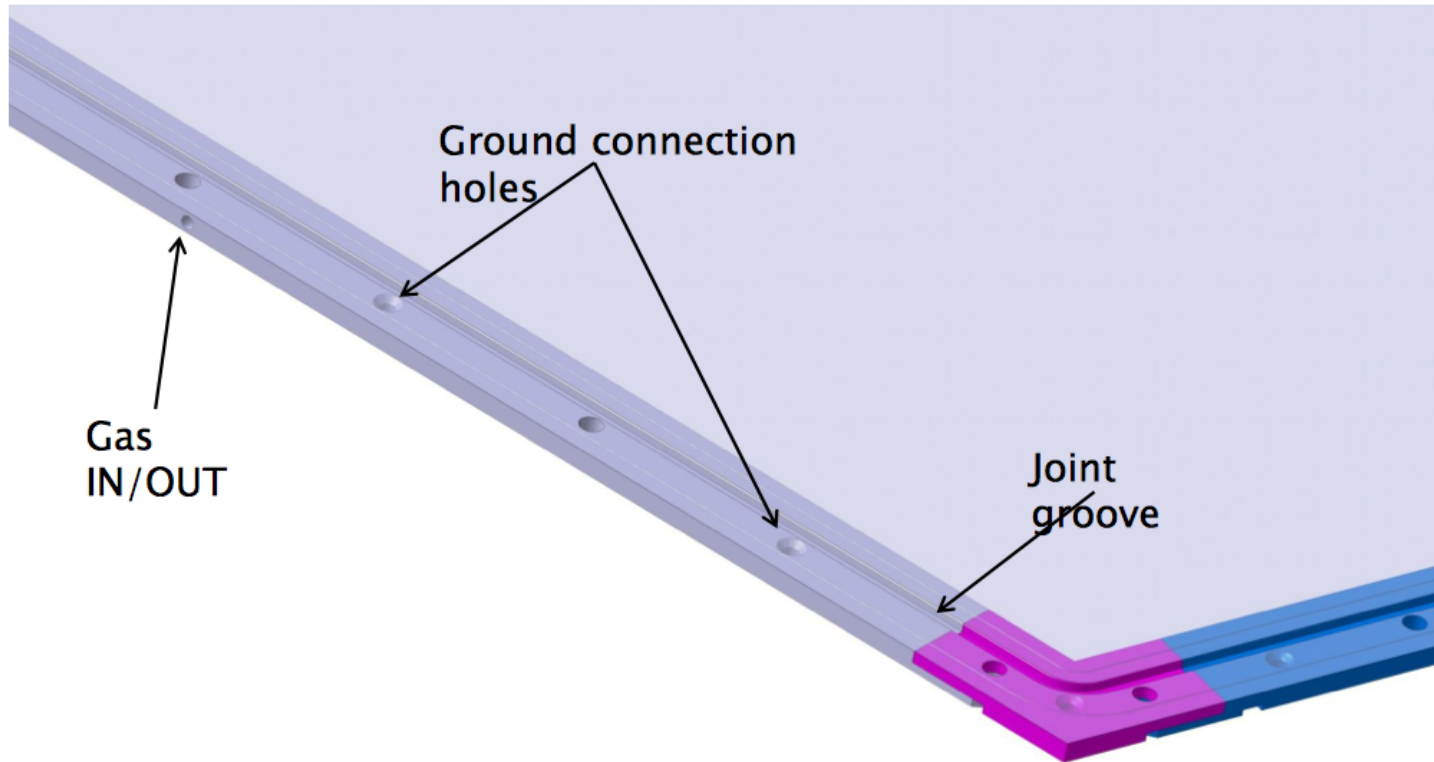
foto

Mesh support frame

- ▶ Assembled and glued on drift panel using alignment holes
- ▶ Mesh glued on well defined surface.
- ▶ Acts as gas manifold.
- ▶ Large gluing area.
- ▶ Ground connection

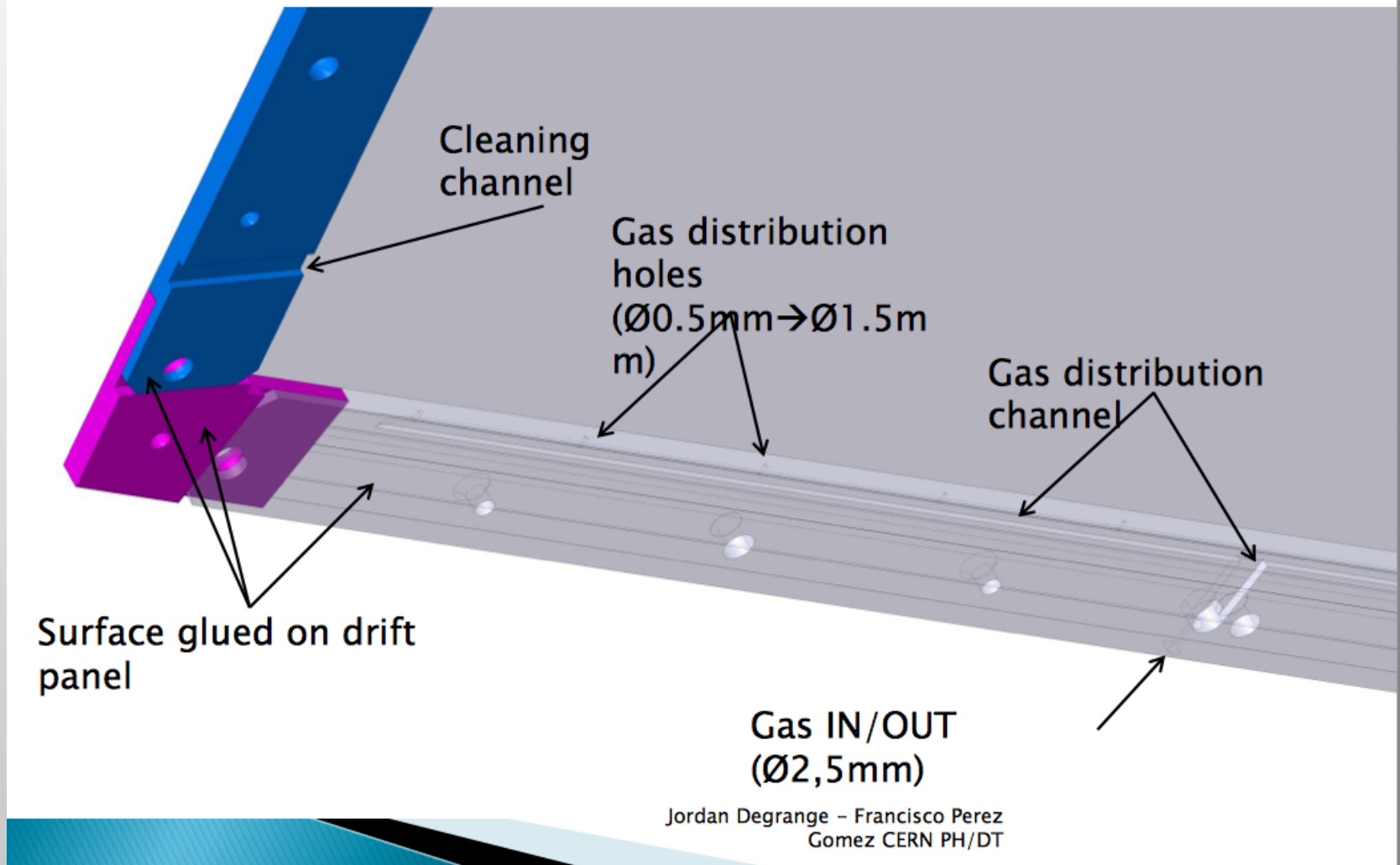


Mesh support frame



Jordan Degrange – Francisco Perez
Gomez CERN PH/DT

Mesh support frame

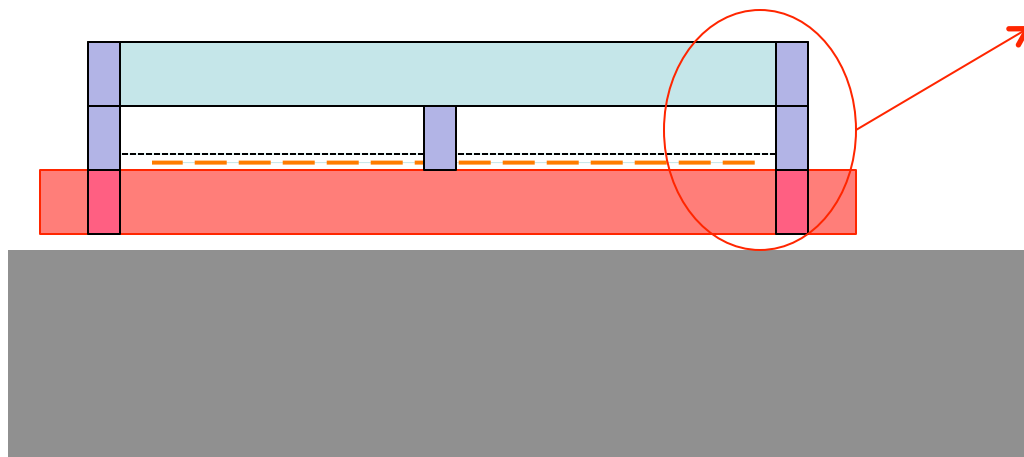
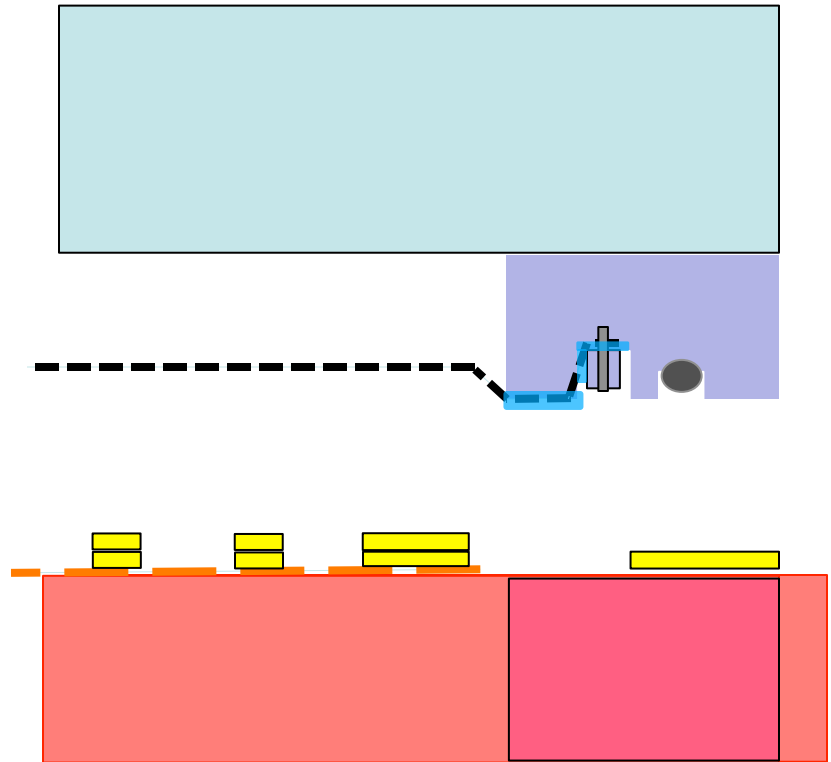


MESH FRAME -- DISEGNO BASATO SU VECCHIA PROPOSTA DI GIVI

 Pillars single foil 64 um

 Glue

 O-ring

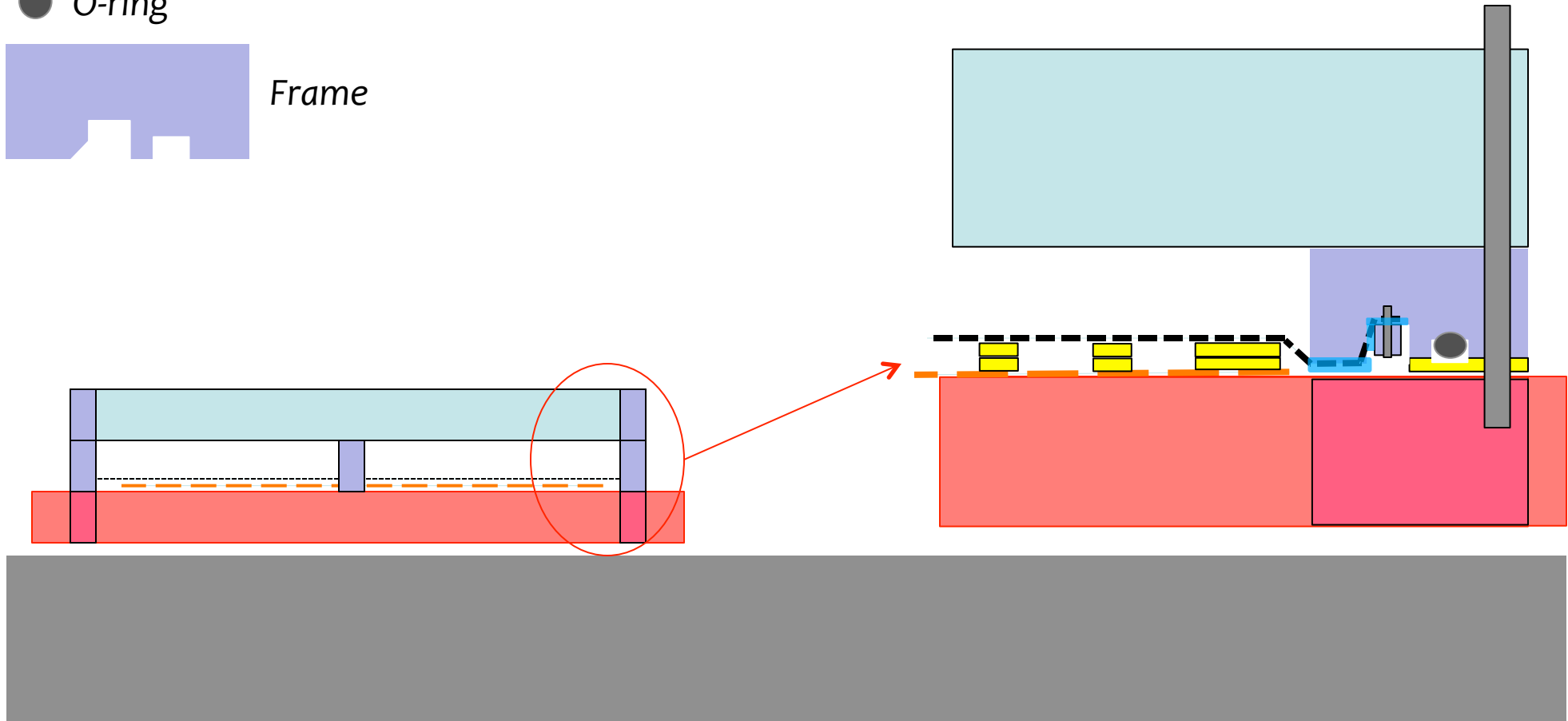


MESH FRAME -- DISEGNO BASATO SU VECCHIA PROPOSTA DI GIVI

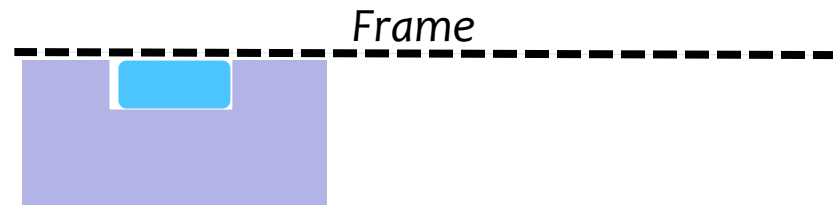
 Pillars single foil 64 um

 Glue

 O-ring



 *Glue*



SEFAR® Tensoscheck 100-R



Auflösung Resolution	< 30 N/cm	= 0.2 N/cm
Résolution Resolución	> 30 N/cm	= 0.5 N/cm
Messbereich/Toleranz (N/cm)	3 - 19.8 N/cm	= +/- 0.4 N/cm
Measuring range/Tolerance (N/cm)	20 - 29.8 N/cm	= +/- 0.6 N/cm
Plage de mesure/Tolérance (N/cm)	30 - 39.5 N/cm	= +/- 1.0 N/cm
Campo de medida/Tolerancia (N/cm)	40 - 50 N/cm	= +/- 1.5 N/cm

Cost ABOUT 800 CHF

- Reproducibility of all measurements on ± 0.2 N/cm level
- ☒ Small drift gap leads to touching on the drift panel at some measurement points

