

# PVD 用 Mask 製作技術及實績介紹

# Mask使用的鋁合金材料介紹(1)

**ORIGINAL** (00805)

ALCAN Global Aerospace, Transportation and Industry  
Europe - AFI Metals, Store and Bag plants

ALCAN

**INSPECTION CERTIFICATE**  
According To: EN 10204-3.1  
Dep. Advice / Cert: 038D194826  
Date: 03/05/2010 Page: 1

Your Order: 19962019

Project:   
Dated: 07/01/2010  
Our Certification No.: 119974-00  
Customer No.: 052703  
Sales Contact: Fabrice GUYON  
Certificate Dpt.: 41 07 407 00 150

HARVARD ENTERPRISES INC.  
11F-1, NO.27 SEC.1, CHUNG SHAN N. RD.,  
TAIPEI, TAIWAN, R.O.C.

Plates in aluminum alloy AA7075-T665, with Relish interleaved with alumitex paper

Your article:

Lot	Production No.	Weight	Quantity	Dimensions
NO6359	020821	1388 Kg	0	40 X 1000 X 3000

**Mechanical and technological properties**

Temp	Tensile	Yield	Elong	Reduct	Impact
min-max	min-max	min-max	min-max	min-max	min-max

Measured values

Temp	Tensile	Yield	Elong	Reduct	Impact
0	585	493	10	174	

**Chemical composition** Required composition (% by weight)

Conting No.	Si	Fe	Cu	Mn	Mg	Zn	Ni	Cr	Ti
Min	40	80	2.0	35	2.8	28	0.05	0.1	300
Max									

Analysis results (% by weight):  
0058412: 0.06 0.10 1.42 0.26 0.09 0.19 0.007 0.00 0.00

Other elements: Each <= 0.005%, Total <= 0.10%

Remarks: L.C. No.: 0NE2/001364143  
Date of the result: 10/02/20  
Name of the bank: First Commercial Bank

A. P. P. Inspection Department

瑞士(瑞鋁)產出的材料證明

ROBRI METAL INDUSTRIES LTD  
SHANGHAI BRANCH

材料檢驗證明書  
CERTIFICATE OF INSPECTION

ALUMINUM ALLOY PLATE

INSPECTION CERTIFICATE

ITEM	DESCRIPTION	UNIT	REQUIREMENT	TEST RESULT	REMARKS
1	TEMPER		T6		
2	THICKNESS	mm	3.0	3.0	
3	TENSILE STRENGTH	MPa	570	570	
4	YIELD STRENGTH	MPa	450	450	
5	ELONGATION	%	12	12	
6	REDUCTION OF AREA	%	25	25	
7	CORROSION RESISTANCE	h	1000	1000	

ROBRI METAL INDUSTRIES LTD  
SHANGHAI BRANCH

KOBELCO

ROBRI STEEL LTD. SHANGHAI BRANCH

S. H. H. H.

日本(神鋼)產出的材料證明

## Mask使用的鋁合金材料介紹(2)



日本(神鋼)材料外觀寫真

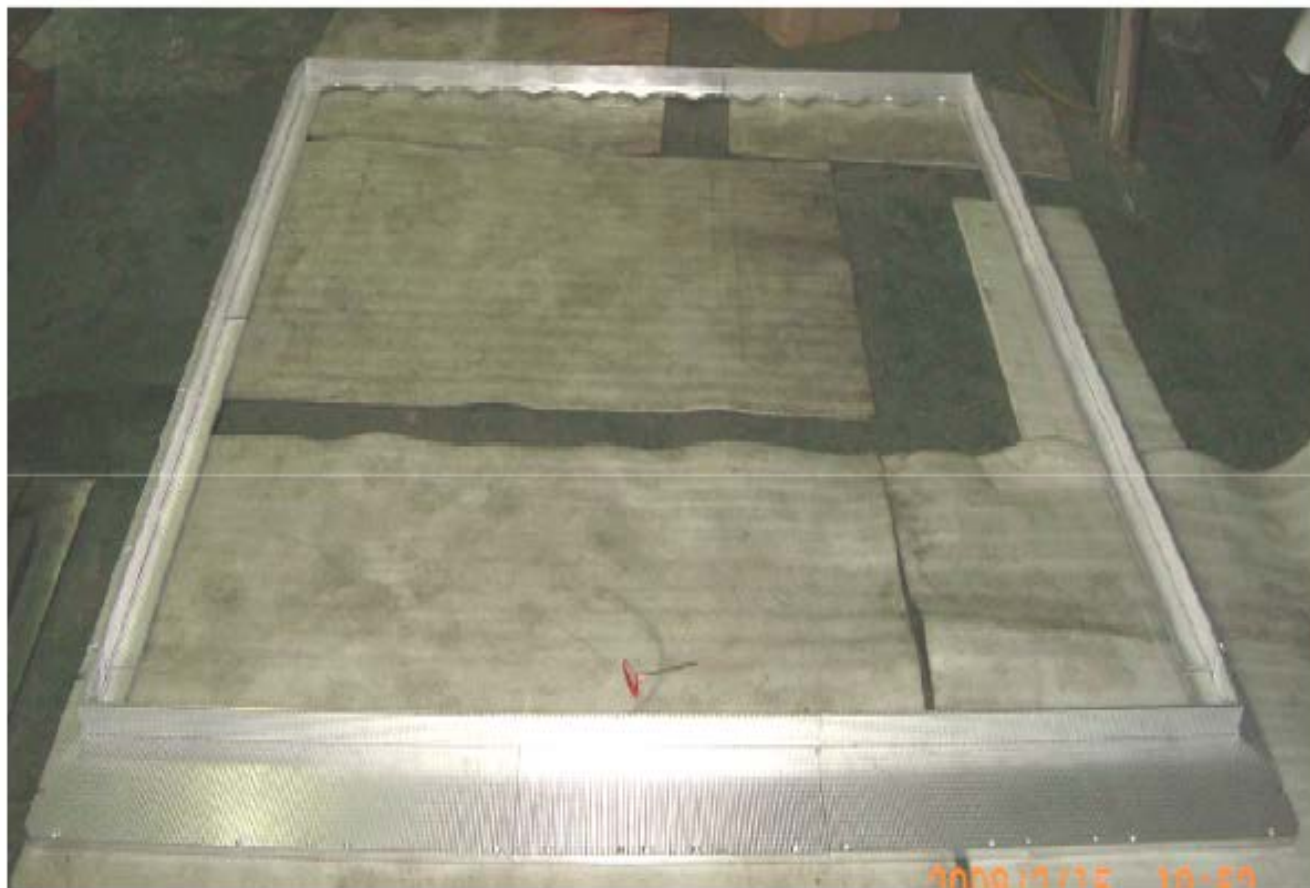


## Mask外型加工介紹(2)



---

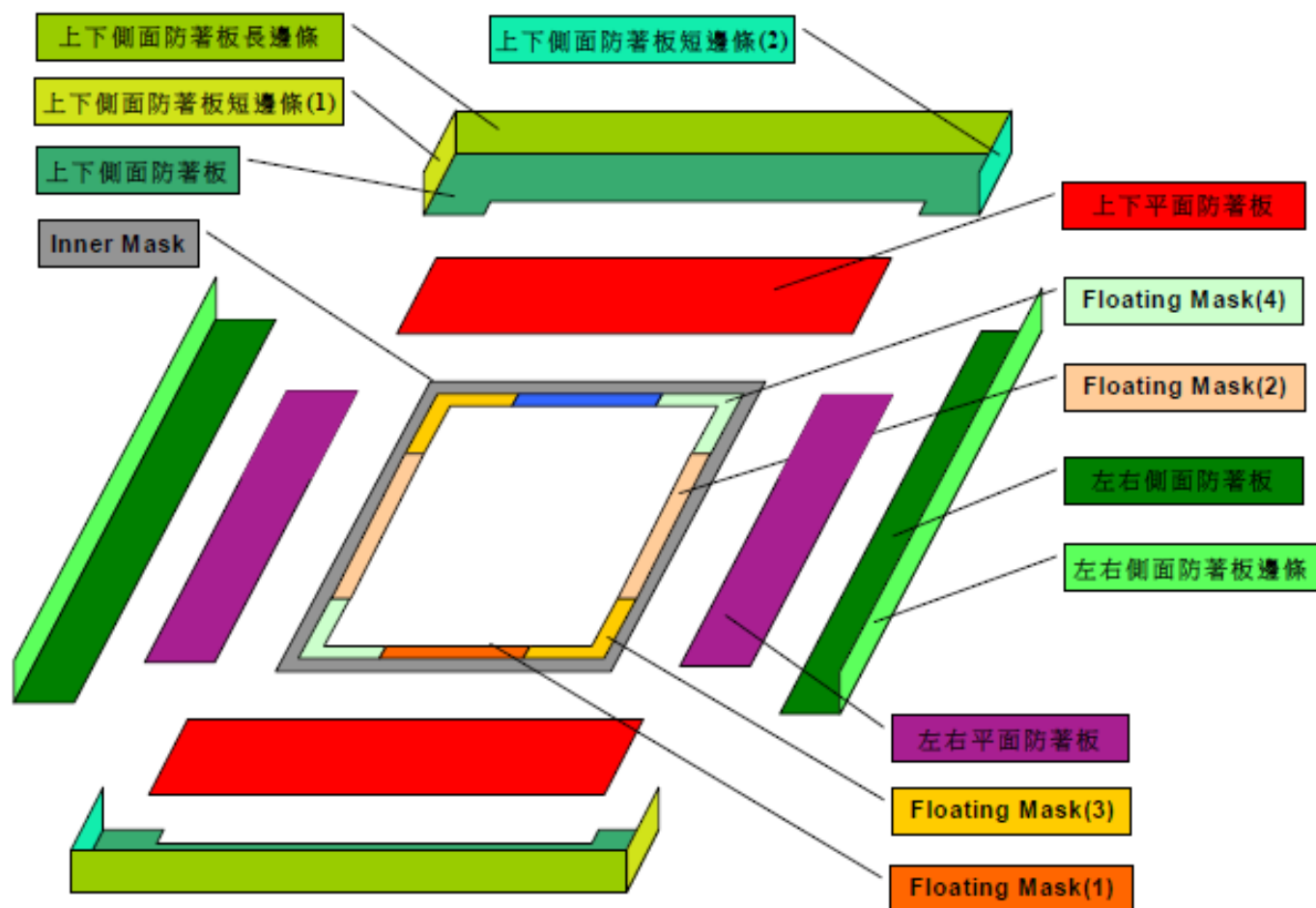
## G7.5 Mask加工完成寫真



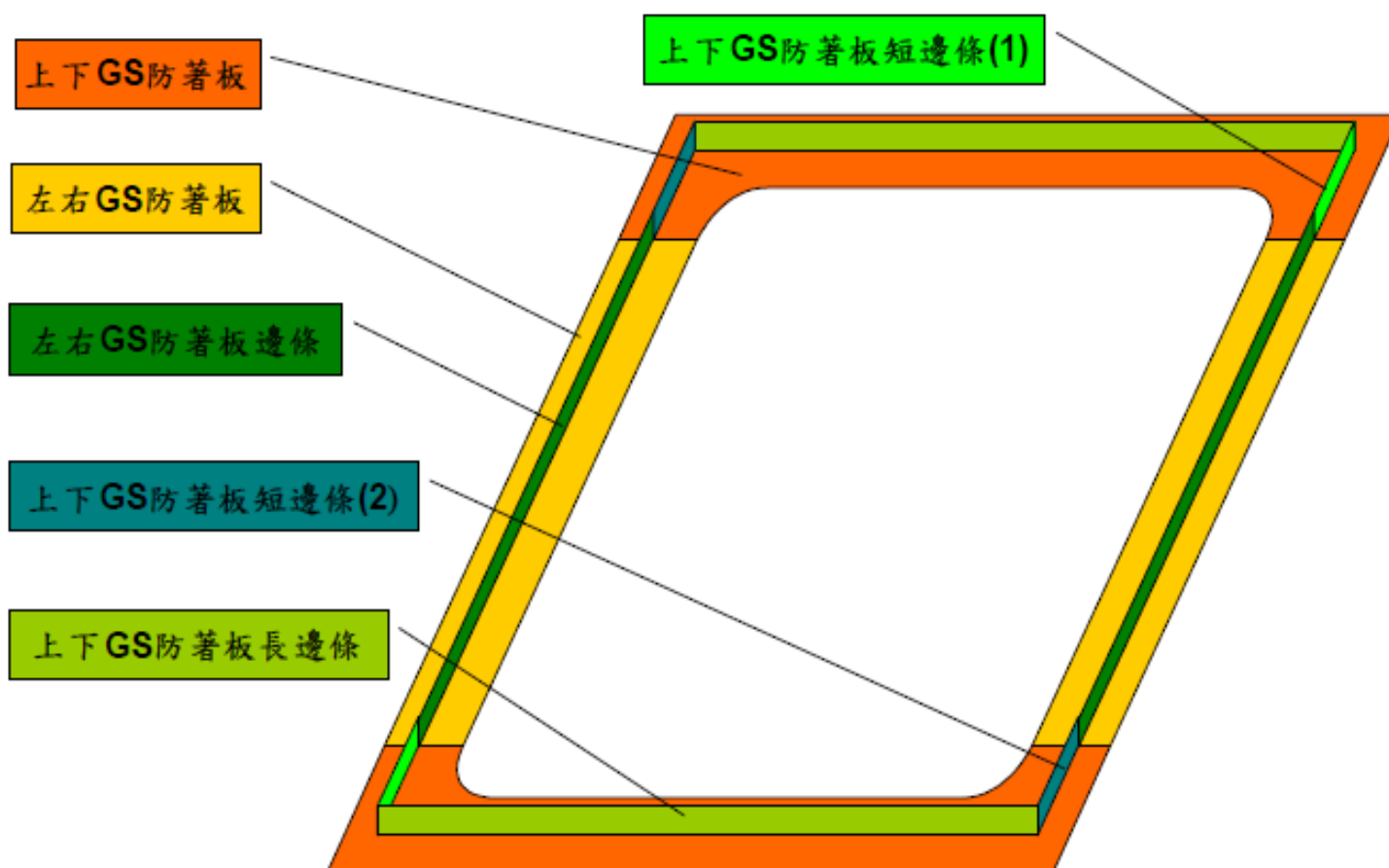
## 各個膜種與Mask的數量名稱對照表

Cathode Type	Al & AlNd		MO		ITO	
	數量	大約尺寸(外寸)	數量	大約尺寸(外寸)	數量	大約尺寸(外寸)
Inner Mask	1		1		1	
Floating Mask(1)	2		1		1	
Floating Mask(2)	2		2		2	
Floating Mask(3)	2		2		2	
Floating Mask(4)	2		2		2	
上下平面防著板	2	1590x350x10T	2	1590x350x10T	2	1590x350x10T
上下側面防著板	2	1650x94x10T	2	1650x94x10T	2	1650x94x10T
上下側面防著板長邊條	2	1650x86x10T	2	1650x138x10T	2	1650x133x10T
上下側面防著板短邊條(1)	2	72.5x86x10T	2	72.5x138x10T	2	72.5x133x10T
上下側面防著板短邊條(2)	2	72.5x86x10T	2	72.5x138x10T	2	72.5x133x10T
左右平面防著板	2	1300x177x10T	2	1300x177x10T	2	1300x177x10T
左右側面防著板	2	1886x60x10T	2	1886x60x10T	2	1886x60x10T
左右側面防著板邊條	2	1866x86x10T	2	1866x138x10T	2	1866x133x10T
上下GS防著板	2	1677x300x(16T or 8T)	2	1677x300x(14T or 6T)	2	1677x300x(14 or 6T)
左右GS防著板	2	1520x120x(16T or 8T)	2	1520x120x(14T or 6T)	2	1520x120x(14 or 6T)
上下GS長邊條	2	1622x20x8T	2	1622x20x8T	2	1622x20x8
上下GS短邊條	2	233x20x8T	2	233x20x8T	2	233x20x8
左右GS邊條	2	1540x20x8T	2	1540x20x8T	2	1540x20x8
Mask 表面處理	AET+ABB+SPRAY		AET+ABB		ABB	
SUSCEPTOR	一式三塊		一式三塊		一式三塊	

## Mask各部件名稱及相關位置 (1)



## Mask各部件名稱及相關位置 (2)





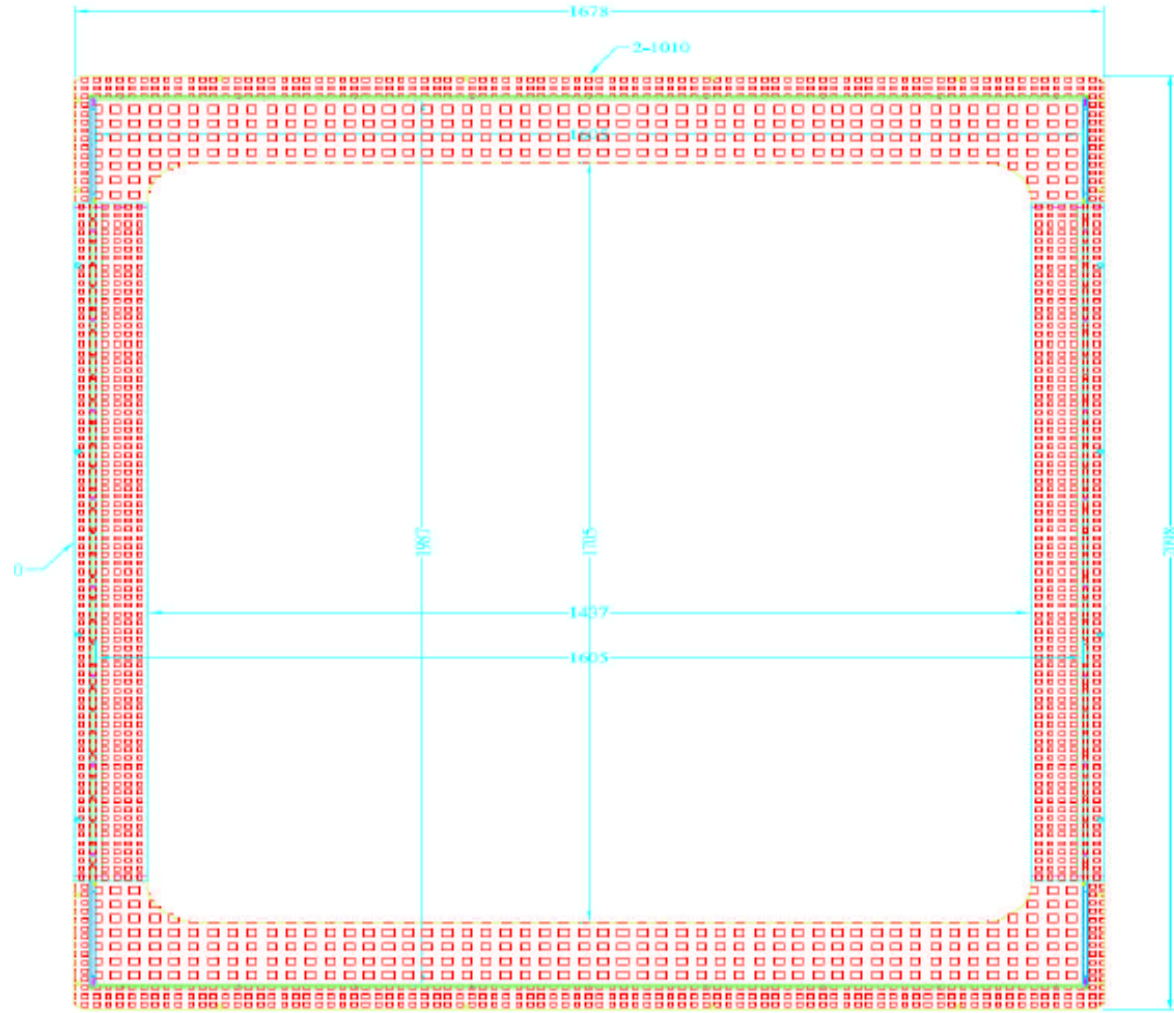
# Mask 表面處理說明

1. AL、ALND採AET+ABB+Spray表面處理。
2. MO採AET+ABB表面處理。
3. ITO採ABB表面處理。

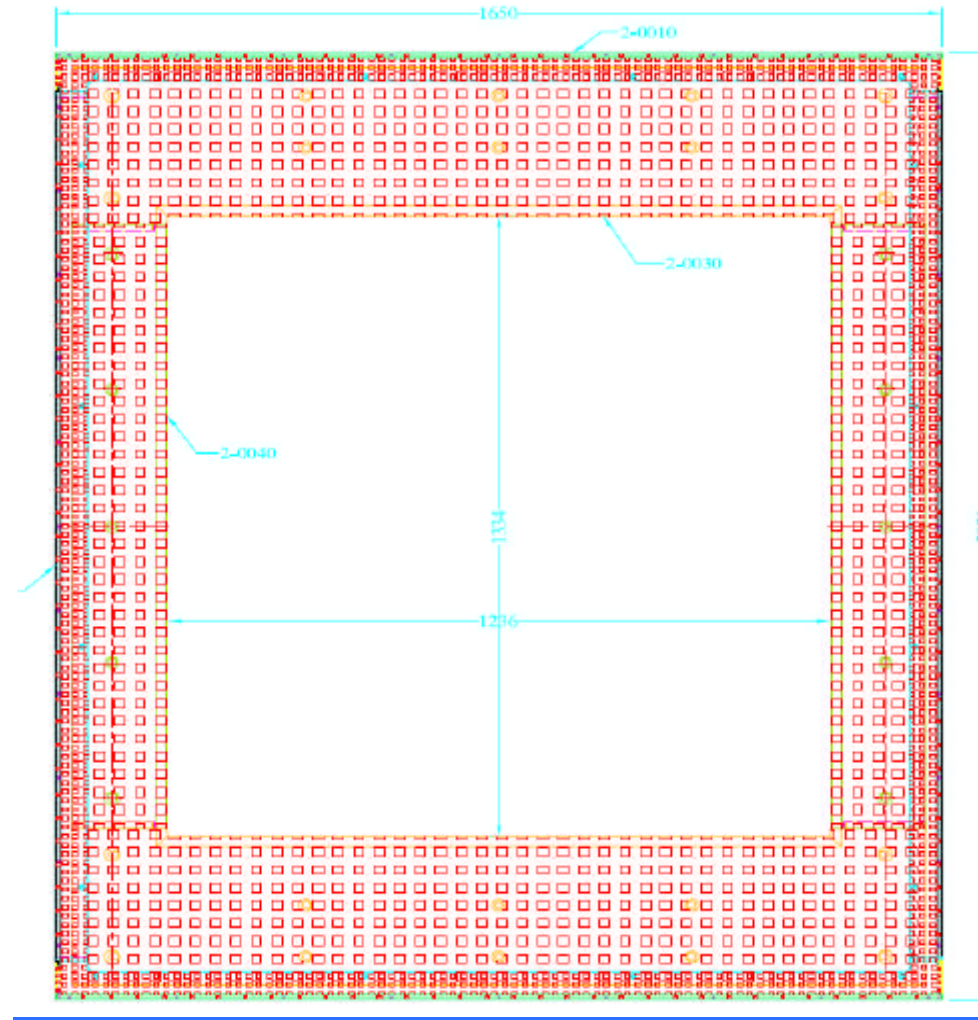
因此ITO的parts無法與其他膜種共用，而MO有部份的parts只要加做spray處理即可與AL及ALND共用。

---

# 平面防著板外觀尺寸圖示



## GS防著板外觀尺寸圖示



## Floating Mask 防著板外觀尺寸圖示

