

ARUP

Ove Arup & Partners  
Building Engineering

Fax To: GOURGOUBES

Fax No: 01033 6773 3065

Attn: HUMBERT/ALEX

cc:

From: ANDY SEDGWICK

Subject: T.P.L.

13 Fitzroy Street  
London W1P 6BQ  
Telephone: 071-636 1531  
Facsimile: 071-580 3924

Direct Dialling:  
Fax: 071-465 3743

Date: 26.4.91

Ref/Job no:

Total Pages:  
(including this page) 1+0

If you have not received all the pages listed please phone the sender

Message

HUMBERT/ALEX,

I'M GOING HOME NOW. LORRAINE WILL  
SHORTLY BE SENDING CUTTING PATTERN  
INFORMATION FOR THE "PLYWOOD SHELL" VERSION.

IF (MIRACULOUSLY) THE WEATHER IMPROVES  
AND YOU GET A CHANCE TO TEST A MIRROR,  
THEN GIVE ME A RING AT HOME TONIGHT  
OR TOMORROW:

071 - 482 - 0592

BEST OF LUCK! Andy.

ALEX: WE WANT TO MAKE A SMALL MODEL HERE USING  
~~TO TEST~~ CUTTING PATTERNS - CAN YOU SEND  
A SMALL PIECE OF THE MIRROR FILM BY POST?  
(SAY 50CM SQUARE?) Thanks, A.

ARUP

Ove Arup & Partners  
Building Engineering

Fax To: GOURGOUBLIS

Fax No: 010 336773 3065

Attn: HUMBERT CAMERLO

cc: ALEX. GOT

From: LORRAINE LIN

Subject:

13 Fitzroy Street  
London W1P 6BQ  
Telephone: 071-636 1531  
Facsimile: 071-580 3924

Direct Dialling:  
Fax: 071-465 3743

Date: 26/4/91

Ref/Job no:

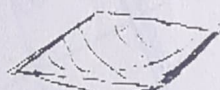
Total Pages: 17  
(including this page)

If you have not received all the pages listed please phone the sender

Message HELLO HUMBERT & ALEX;

HERE ARE THE CUTTING PATTERNS  
FOR THE PLYWOOD REFLECTOR. THERE ARE 7 STEPS  
WHICH FIT TOGETHER AS SHOWN IN DIAGRAM 1:  
THEY FIT TOGETHER ~~to~~ TO FORM A CONCAVE SHAPE

↓ VIEWPOINT IN DIAGRAM 1.



RELATIVE TO THE PLAN DIAGRAM.

— THE NODES ~~NUMBER~~ ARE INDICATED WITH A SYMBOL  $\circ$  V.  
THE COORDINATES OF THE NODES ARE GIVEN ON  
THE NEXT PAGE.

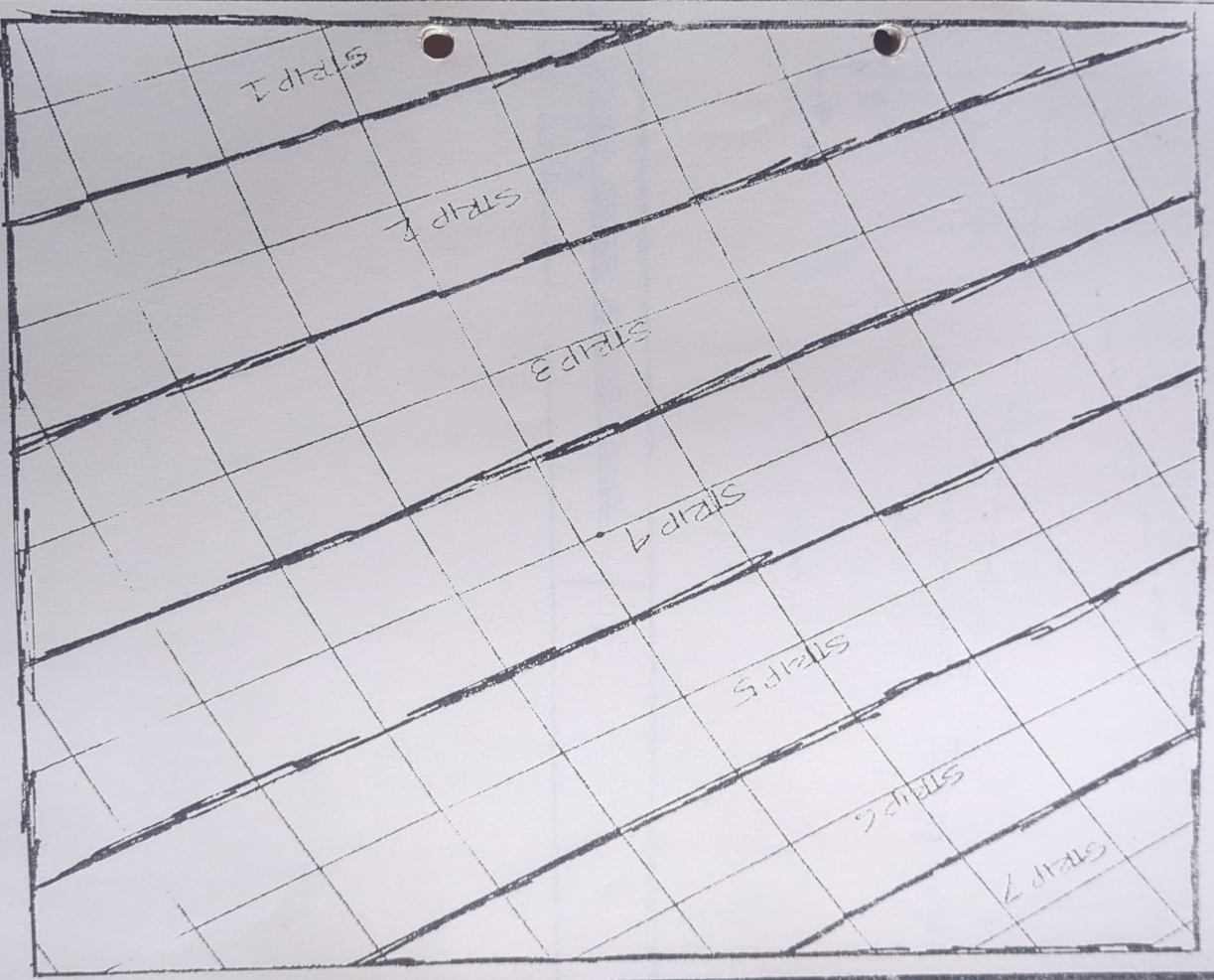
— THE STRAIGHT PARALLEL LINES ~~GIVE~~ ARE  
TO ALIGN ADJACENT PIECES.  
THEY SHOULD LINE UP NICELY BETWEEN PIECES.

-- BE ~~CARE~~ CAREFUL THE RECTANGULAR EDGE IN  
PLAN IS NOT PERFECTLY STRAIGHT, HOWEVER  
IT IS VERY CLOSE TO BEING STRAIGHT  
(MORE INFO. ON THIS LATER).

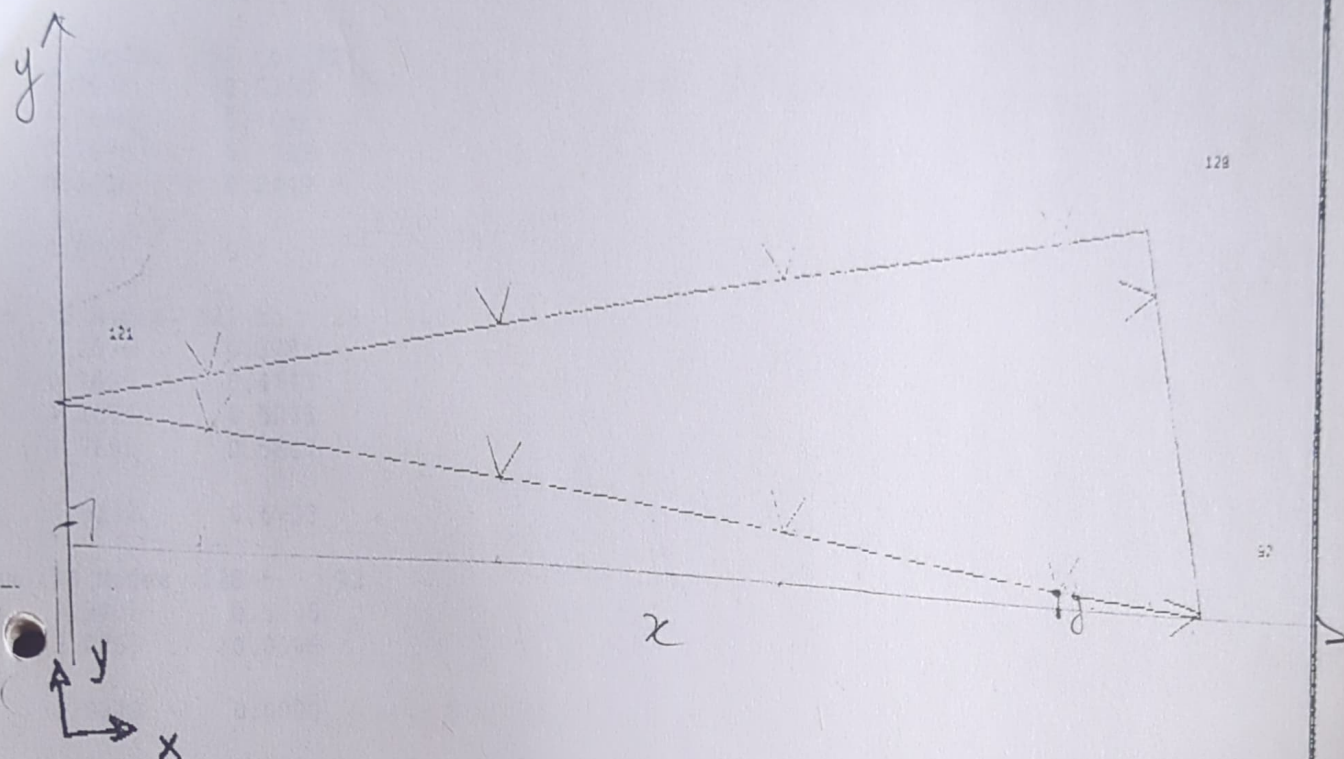
GOOD LUCK CONSTRUCTING.  
I HOPE THE WEATHER CLEARS UP.

~~RECEIVED~~  
Lorraine





3.8



Cutting across 1

Home Help Draw Load File(s) Append File(s) Delete File(s)

Data read from strips00.101

Data read from strips01.101

Data read from strips01.101

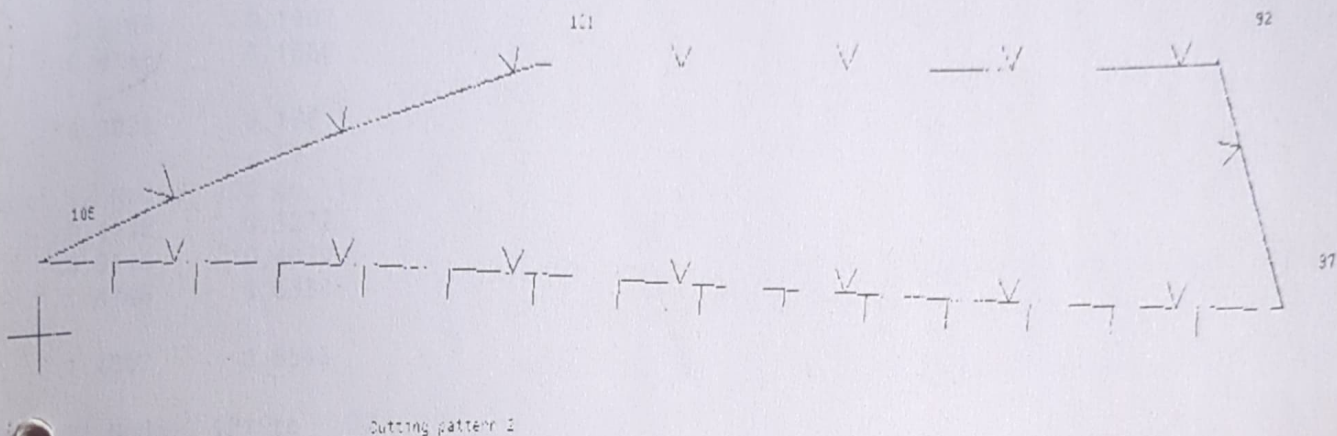
100 % select  
100 % screen  
100 % screen

on points for cutting pattern 1

4

|      |          | X          | Y |
|------|----------|------------|---|
| Seam | 1 Nodes  | 92 to 121  |   |
|      | 1.7696   | 0.0360     |   |
|      | 1.2696   | 0.1056     |   |
|      | 0.7696   | 0.1753     |   |
|      | 0.2696   | 0.2449     |   |
|      | 0.0000   | 0.2        |   |
| Seam | 13 Nodes | 121 to 128 |   |
|      | 0.2696   | 0.3286     |   |
|      | 0.7696   | 0.4143     |   |
|      | 1.2696   | 0.5003     |   |
|      | 1.7696   | 0.5867     |   |
|      | 1.9232   | 0.6133     |   |
| Seam | 14 Nodes | 128 to 92  |   |
|      | 1.9409   | 0.5096     |   |
|      | 2.0263   | 0.0096     |   |
|      | 2.0279   | 0.0000     |   |





Cutting pattern 2

|                                                                                          |      |      |              |                |                |
|------------------------------------------------------------------------------------------|------|------|--------------|----------------|----------------|
| Menu                                                                                     | Help | Draw | Load File(s) | Append File(s) | Delete File(s) |
| Data read from mirrors.top<br>Data read from strips01.101<br>Data read from strips02.101 |      |      |              |                |                |
| 100 & object<br>101 & screen<br>102 & screen<br>103 & screen                             |      |      |              |                |                |

ion points for cutting pattern 2

6

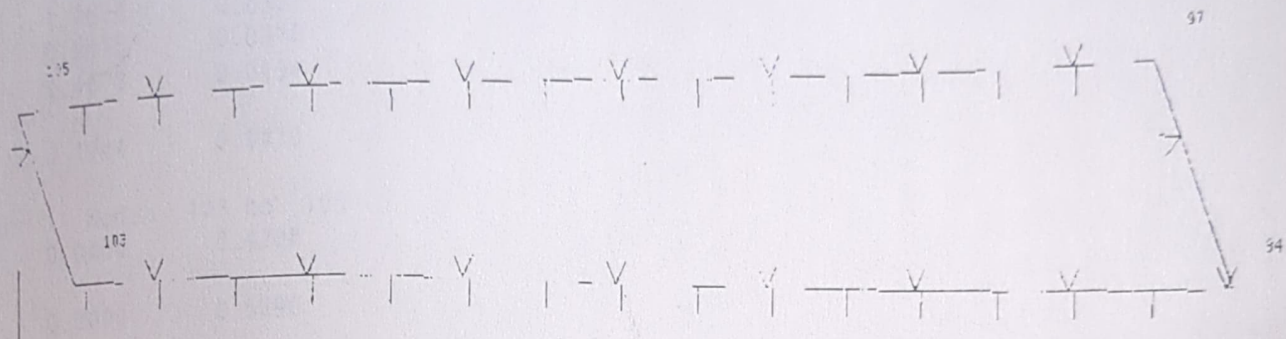
|      | X       | Y         |
|------|---------|-----------|
| Seam | 2 Nodes | 97 to 105 |
|      | 3.4148  | 0.0155    |
|      | 2.9148  | 0.0405    |
|      | 2.4148  | 0.0654    |
|      | 1.9148  | 0.0905    |
|      | 1.4148  | 0.1156    |
|      | 0.9148  | 0.1407    |
|      | 0.4148  | 0.1660    |
|      | 0.0028  | 0.1867    |

|      |          |            |
|------|----------|------------|
| Seam | 12 Nodes | 105 to 121 |
|      | 0.4148   | 0.3272     |
|      | 0.9148   | 0.4820     |
|      | 1.4148   | 0.6334     |
|      | 1.4807   | 0.6543     |

|      |          |           |
|------|----------|-----------|
| Seam | 21 Nodes | 121 to 92 |
|      | 3.4148   | 0.6414    |
|      | 2.9148   | 0.6449    |
|      | 2.4148   | 0.6483    |
|      | 1.9148   | 0.6515    |
|      | 3.5282   | 0.6406    |

|      |          |          |
|------|----------|----------|
| Seam | 15 Nodes | 92 to 97 |
|      | 3.5945   | 0.4273   |
|      | 3.7276   | 0.0000   |





Cutting pattern 3

|                                                                                           |      |      |              |                |                |                                                              |
|-------------------------------------------------------------------------------------------|------|------|--------------|----------------|----------------|--------------------------------------------------------------|
| Menu                                                                                      | Help | Draw | Load File(s) | Append File(s) | Delete File(s) | 100 % screen<br>180 % screen<br>100 % screen<br>100 % screen |
| Data read from strips01.101<br>Data read from strips02.101<br>Data read from strips03.101 |      |      |              |                |                |                                                              |



on points for cutting pattern 3

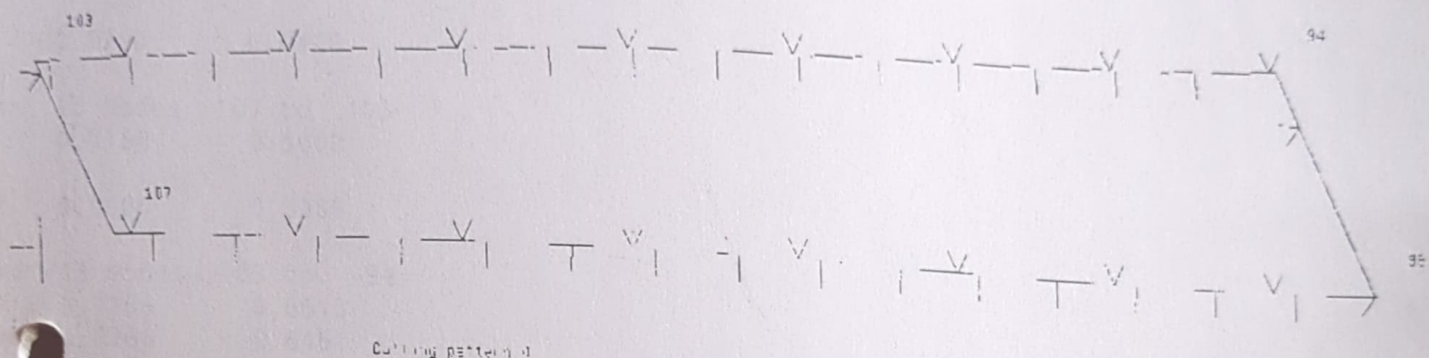
|      | X       | Y         |
|------|---------|-----------|
| Seam | 3 Nodes | 94 to 103 |
|      | 3.9675  | 0.0002    |
|      | 3.4675  | 0.0062    |
|      | 2.9675  | 0.0123    |
|      | 2.4675  | 0.0183    |
|      | 1.9675  | 0.0245    |
|      | 1.4675  | 0.0307    |
|      | 0.9675  | 0.0370    |
|      | 0.4675  | 0.0434    |
|      | 0.1944  | 0.0470    |

|      |          |            |
|------|----------|------------|
| Seam | 11 Nodes | 103 to 105 |
|      | 0.0404   | 0.4288     |
|      | 0.0000   | 0.5290     |

|      |         |           |
|------|---------|-----------|
| Seam | 2 Nodes | 105 to 97 |
|      | 3.4675  | 0.6383    |
|      | 2.9675  | 0.6229    |
|      | 2.4675  | 0.6072    |
|      | 1.9675  | 0.5915    |
|      | 1.4675  | 0.5758    |
|      | 0.9675  | 0.5599    |
|      | 0.4675  | 0.5440    |
|      | 3.7277  | 0.6464    |

|      |          |          |
|------|----------|----------|
| Seam | 16 Nodes | 97 to 94 |
|      | 3.8154   | 0.4288   |
|      | 3.9885   | 0.0000   |

9



Cutting pattern 1

Menu Help Draw Load File(s) Append File(s) Delete File(s)

Data read from strip02.101  
Data read from strip03.101  
Data read from strip04.101

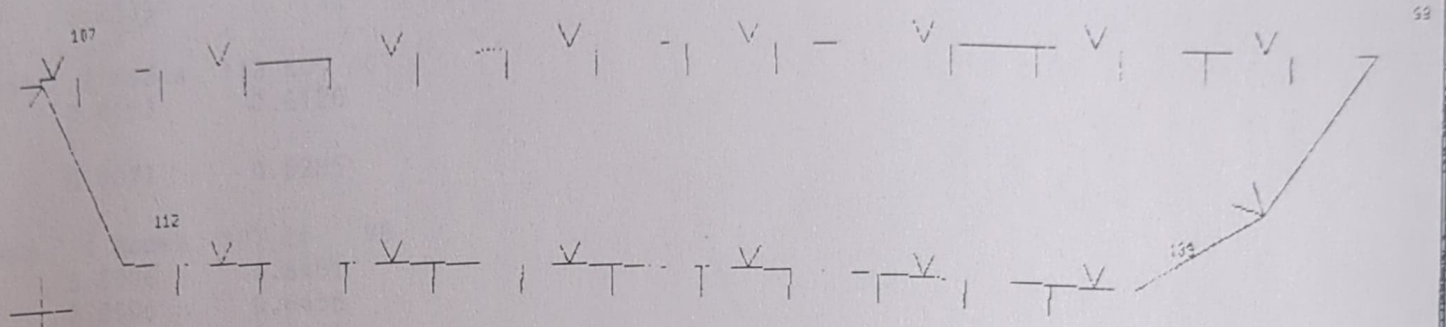
100 % screen  
125 % screen  
150 % screen  
175 % screen



points for cutting pattern 4

10

|      | x        | y          |
|------|----------|------------|
| Seam | 4 Nodes  | 98 to 107  |
|      | 3.7766   | 0.0034     |
|      | 3.2766   | 0.0087     |
|      | 2.7766   | 0.0140     |
|      | 2.2766   | 0.0195     |
|      | 1.7766   | 0.0251     |
|      | 1.2766   | 0.0306     |
|      | 0.7766   | 0.0363     |
|      | 0.2766   | 0.0421     |
|      | 0.2260   | 0.0426     |
| Seam | 10 Nodes | 107 to 103 |
|      | 0.0168   | 0.5003     |
|      | 0.0000   | 0.5369     |
| Seam | 3 Nodes  | 103 to 94  |
|      | 3.7766   | 0.6613     |
|      | 3.2766   | 0.6451     |
|      | 2.7766   | 0.6289     |
|      | 2.2766   | 0.6125     |
|      | 1.7766   | 0.5960     |
|      | 1.2766   | 0.5794     |
|      | 0.7766   | 0.5628     |
|      | 0.2766   | 0.5461     |
|      | 3.7923   | 0.6618     |
| Seam | 17 Nodes | 94 to 98   |
|      | 3.8661   | 0.5003     |
|      | 4.0949   | 0.0003     |
|      | 4.0950   | 0.0000     |



Cutting pattern 5

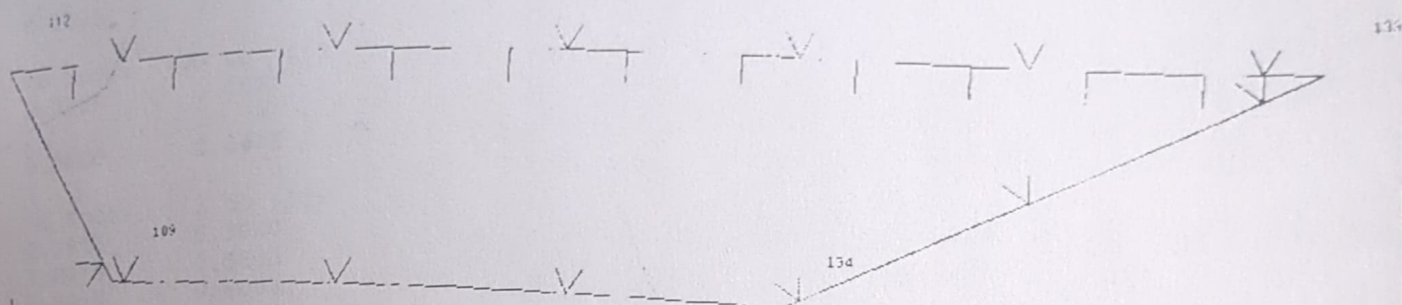
Menu Help Draw Load File(s) Append File(s) Delete File(s)

Data read from strip03.101  
Data read from strip04.101  
Data read from strip05.101

101 % screen  
104 % screen  
105 % screen  
106 % screen

|      | X        | Y          |
|------|----------|------------|
| Seam | 5 Nodes  | 139 to 112 |
|      | 3.0506   | 0.0046     |
|      | 2.5506   | 0.0238     |
|      | 2.0506   | 0.0431     |
|      | 1.5506   | 0.0625     |
|      | 1.0506   | 0.0820     |
|      | 0.5506   | 0.1015     |
|      | 0.2539   | 0.1132     |
| Seam | 9 Nodes  | 112 to 107 |
|      | 0.0153   | 0.6126     |
|      | 0.0077   | 0.6285     |
| Seam | 4 Nodes  | 107 to 98  |
|      | 3.5506   | 0.6481     |
|      | 3.0506   | 0.6456     |
|      | 2.5506   | 0.6430     |
|      | 2.0506   | 0.6403     |
|      | 1.5506   | 0.6376     |
|      | 1.0506   | 0.6347     |
|      | 0.5506   | 0.6318     |
|      | 0.0506   | 0.6288     |
|      | 3.8769   | 0.6497     |
| Seam | 18 Nodes | 98 to 139  |
|      | 3.5506   | 0.2129     |
|      | 3.1702   | 0.0000     |





Cutting pattern

Menu Help Draw Load File(s) Append File(s) Delete File(s)

Data read from strips01.101  
Data read from strips02.101  
Data read from strips03.101104 & screen  
105 & screen  
106 & screen  
107 & screen

points for cutting pattern 6

|      | X        | Y          |
|------|----------|------------|
| Seam | 6 Nodes  | 134 to 109 |
|      | 1.2919   | 0.0362     |
|      | 0.7919   | 0.0759     |
|      | 0.2919   | 0.1155     |
|      | 0.2625   | 0.1179     |
| Seam | 8 Nodes  | 109 to 112 |
|      | 0.2388   | 0.1671     |
|      | 0.0000   | 0.6615     |
| Seam | 5 Nodes  | 112 to 139 |
|      | 2.7919   | 0.5660     |
|      | 2.2919   | 0.5833     |
|      | 1.7919   | 0.6004     |
|      | 1.2919   | 0.6176     |
|      | 0.7919   | 0.6346     |
|      | 0.2919   | 0.6516     |
|      | 2.9169   | 0.5617     |
| Seam | 19 Nodes | 139 to 134 |
|      | 2.7919   | 0.5017     |
|      | 2.2919   | 0.2611     |
|      | 1.7919   | 0.0199     |
|      | 1.7508   | 0.0000     |

15

169

17

139

Cutting pattern 7

Menu Help Draw New view Freeze

Data read from mirror.top  
Data read from striped7.in

GUI & plot &  
GUI & screen



points for cutting pattern 7

| x       | y          |
|---------|------------|
| 7 Nodes | 130 to 109 |
| 0.2071  | 0.1583     |
| 0.0180  | 0.6583     |
| 0.0000  | 0.7058     |

|      |          |            |
|------|----------|------------|
| Seam | 22 Nodes | 109 to 134 |
|      | 1.1603   | 0.5107     |
|      | 0.6603   | 0.5948     |
|      | 0.1603   | 0.6788     |
|      | 1.4723   | 0.4583     |

|      |          |            |
|------|----------|------------|
| Seam | 20 Nodes | 134 to 130 |
|      | 1.1603   | 0.3400     |
|      | 0.6603   | 0.1499     |
|      | 0.2669   | 0.0000     |