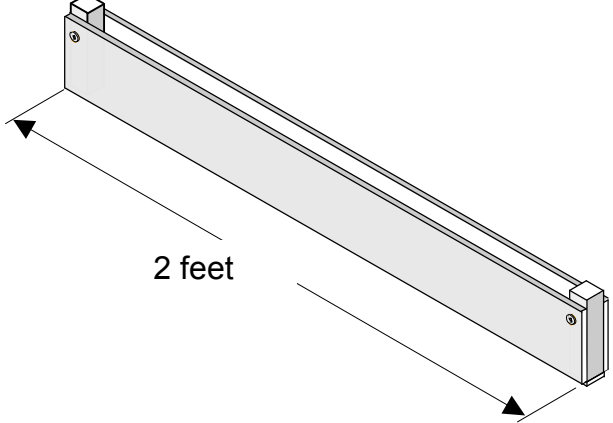
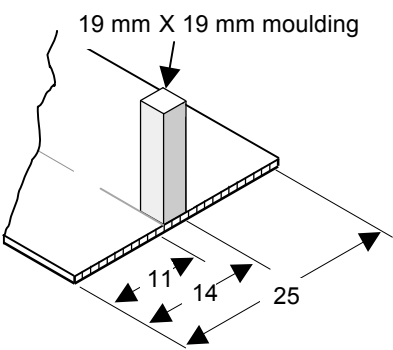
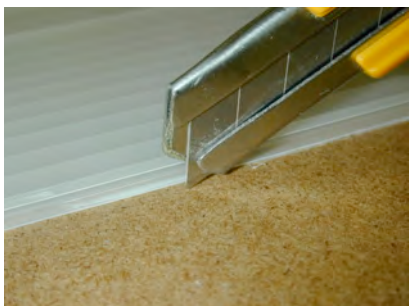

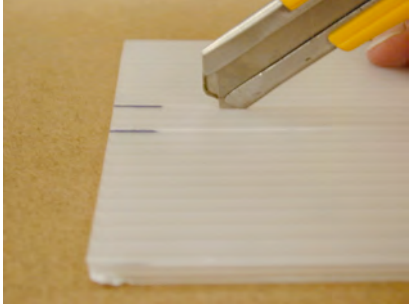
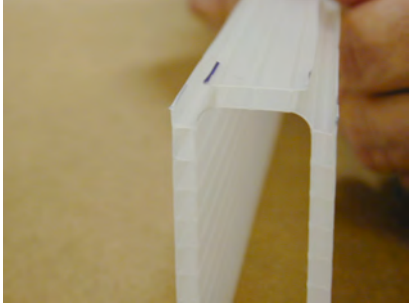
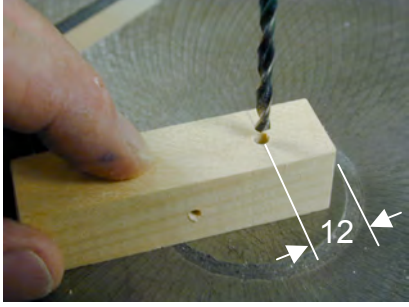





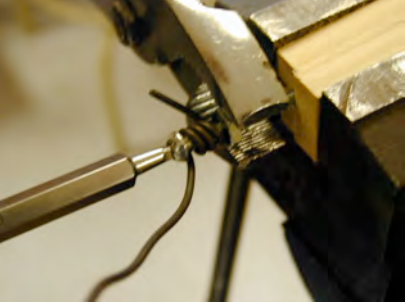
 <p>centre de développement pédagogique pour la formation générale en science et technologie</p>			
ASSEMBLY RANGE			
COMPONENT: Form for beam			
SET: Study of Concrete			
RANGE N°1		SHEET: 1 of 5	
DRAWING:		REFERENCE:	
NUMBER: 1		MATERIALS: Wood and Coroplast	
N°	PHASE, SUB-PHASE OR OPERATION	SKETCH	MACHINE-TOOL, TOOLS
10	TRACING		
11	<p>On a band of corrugated plastic 2 feet wide, trace the placement of the different cuts as shown. (COROPLAST)</p> <p>N.B.</p> <ul style="list-style-type: none"> - You must completely cut the corrugated plastic at cells 0 and 25. - You must cut the underside only at cells 11 and 14. - The underside should have 2 complete cells. - The sides should have 10 complete cells. 		<ul style="list-style-type: none"> - Corrugated plastic - Ruler - Felt marker
20	CUTTING		
21	<p>Adjust the utility knife in such a way as to not cut through the full thickness of the plastic.</p> <p>Note: It would be a good idea to practice on a remnant before cutting the real piece.</p>		<ul style="list-style-type: none"> - Plastics knife - Or utility knife - Ruler
22	Cut the top of the eleventh corrugation as shown on the picture.		

ASSEMBLY RANGE		SHEET 2 OF 5	
23	In the same way, cut the fourteenth corrugation		
24	We should be able to fold the plastic sheet as shown.		
30	DRILLING		
34	In a 3/4 x 3/4 section of moulding, cut two 70 mm lengths.		<ul style="list-style-type: none"> - Sensitive drill - 9/64 Ø bit
35	Mark the placement of the hole at 12 mm and drill it with a 9/64 inch Ø.		
36	Drill both blocks of wood.		
40	SCREWING		
35	We will use three milled cap screws per block to affix it to the corrugated plastic.		<ul style="list-style-type: none"> - N° 5 1/2 inch milled cap screws - Screwdriver
36	Place one of the blocks of wood at the end of the plastic sheet and screw the bottom screw in		

ASSEMBLY RANGE		SHEET 3 OF 5	
41	<p>While bending one of the sides, screw in the second screw.</p> <p>Note: The third screw will be placed after the installation of the cable</p>		
50	INSTALLATION OF THE CABLE		
51	Place a 2 inch 6-32 bolt and its nut between two blocks of wood in a vise.		<ul style="list-style-type: none"> - 2 inch 6-32 bolt - Pair of pliers - Blocks of wood
52	<p>Use a one metre long strand of steel wire.</p> <p>Holding the wire with the pliers, roll the wire three or four times around the bolt.</p>		<ul style="list-style-type: none"> - Steel wire - Pliers - Vise
53	Holding the nut with the pliers, screw the bolt in until the head compresses the whorls. Tighten well.		<ul style="list-style-type: none"> - Screwdriver - Pliers - Vise

ASSEMBLY RANGE**SHEET 4 OF 5**

54 Straighten the cable well.

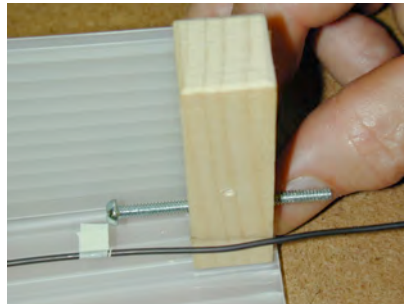


- Pliers

55 Insert the bolt as shown in the hole in the first block.



56 After having inserted another bolt into the second block, stretch the cable.
Using the adhesive tape, mark the place where you should start rolling the wire around the second bolt.



- Adhesive tape





57 Repeat operations 51 through 54 on the second bolt.



- Steel wire
- Pliers
- Vise



- Screwdriver
- Pliers
- Vise

ASSEMBLY RANGE		SHEET 5 OF 5	
60	FINAL ASSEMBLY		
61	Insert a bolt into one of the blocks of wood and maintain its position using a washer and a nut.		- 6-32 nut - Washer
62	Do the same thing at the other extremity with the other bolt.		
63	Tighten the bolts in order to stretch the wire.		
64	Fold over the side of the corrugated plastic and screw it onto the block of wood as shown.		- 1/2 inch N° 6 milled cap screw - Screwdriver
65	Repeat the operation on the second block.		- 1/2 inch N° 6 milled cap screw - Screwdriver
66	The form that will be used to pour the concrete is ready.	