

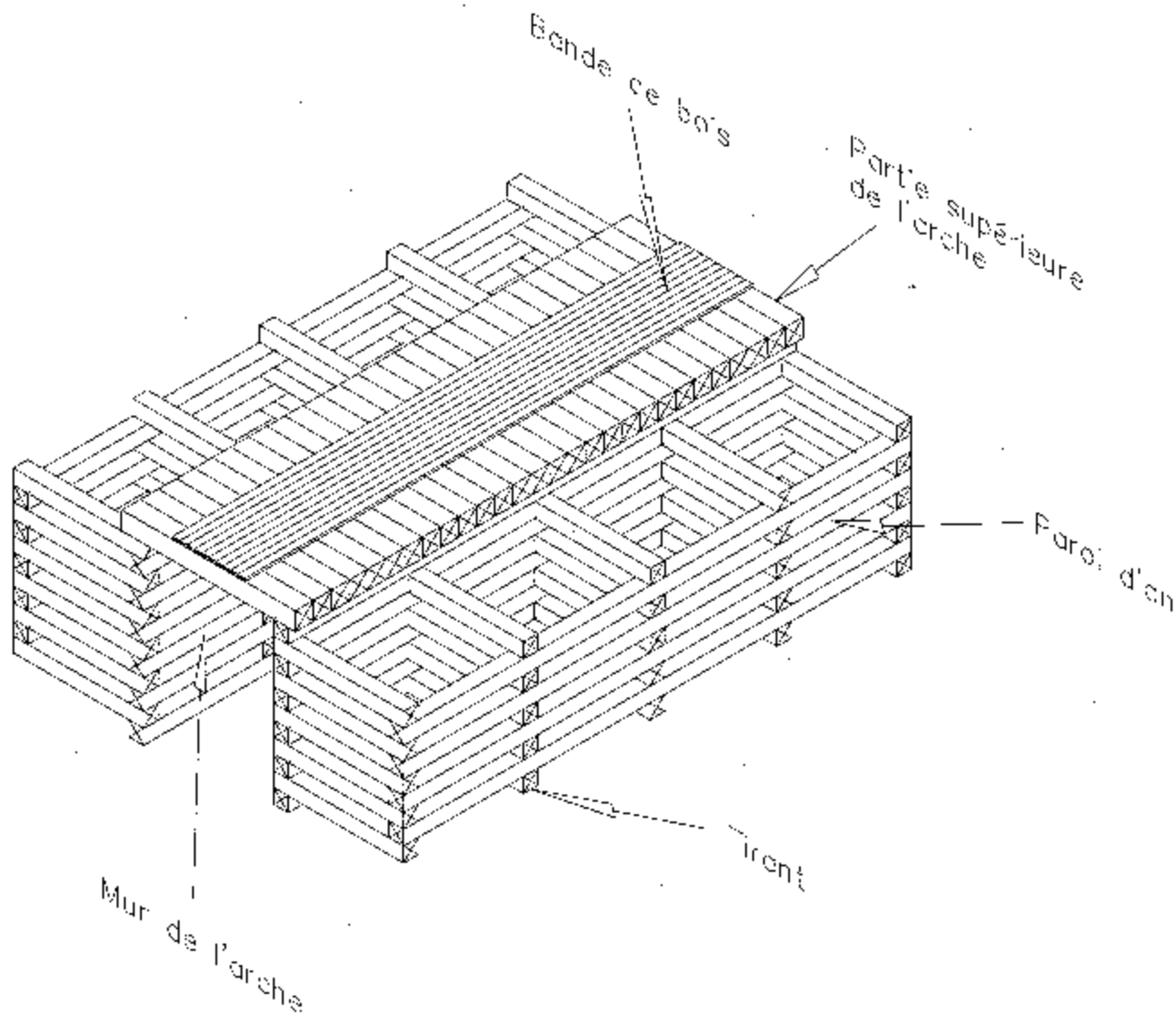
Conditions to be met		Span of wooden culvert	
		≤ 1,000 mm	> 1,000 mm and ≤ 2,000 mm
Upper part ¹ of the arch	Dimension of wooden parts	200 mm x 200 mm	250 mm x 250 mm
	Length of nails	350 mm	400 mm
	Assembly	<ul style="list-style-type: none"> Wooden parts forming the upper part of the arch are placed one beside the other and nailed to each wall. Each wooden part must exceed the outside sides of the walls by at least 100 mm. A strip of wooden parts, a total width of 1 000 mm and a minimum thickness of 38 mm, is nailed on the top at the centre of the arch, transversally to wooden parts forming the upper part of the arch. 	
Walls ² , tie beams and anchoring walls	Dimension of wooden parts	200 mm x 200 mm	
	Length of nails	350 mm	
	Assembly	<ul style="list-style-type: none"> Both walls of the arch skirt the watercourse; they are made of wooden parts nailed together to form a full surface. Each wall is linked to an anchoring wall by tie beams placed perpendicularly to the beams. Tie beams are nailed to the wall and the anchoring wall. Tie beams and wooden parts of the anchoring wall are alternated so that the tie beams of two consecutive rows are not directly one above the other. Tie beams have a minimal length of 1,200 mm and are spaced over the length of the wall by not more than 2,000 mm. For grounds having a low bearing capacity (loam, clay, organic soils and loose alluvions), the walls and anchoring walls must be installed on a granular blanket at least 400 mm thick. 	
Clearance of arch		From 800 to 2 000 mm	
Fill material		Sand or gravel (particles from 0 to 20 mm in diameter)	
Thickness of fill ³		From 300 to 1 000 mm	
Width of road		The width of the road above the culvert may not be reduced.	

1. The wooden parts of the upper part of the arch are no. 1 quality and of a species recognized in standard CAN/CSA-S6-06 (pine, hemlock, spruce, fir or tamarack).

2. The wooden parts of the walls are no. 1 or 2 quality and of one of the species recognized in standard CAN/CSA-S6-06 (pine, hemlock, spruce, fir or tamarack).

3. A geotextile membrane is placed on the top of the arch and on the outside side of the walls before filling all the wooden parts of the culvert.

Figure 1
Wooden culvert



Bande de bois = strip of wood
Partie supérieure de l'arche = upper part of the arch
Paroi d'ancrage = anchoring wall
Tirant = tie beam
Mur de l'arche = Arch wall