PRODUCT INFORMATION

SB-AW Assembled Corrugated Pipe (ISO)

SB-AW assembled corrugated pipe is composed of arc corrugated steel plates that are bolted together to form the required shape. It is generally used when the maximum sizes of integral corrugated pipes or spiral corrugated pipes is exceeded or where the height of cover material is so great that traditional corrugated pipes cannot meet the construction requirements.



Product Feature

- Lightweight and nestable structure allows for easy handling and transport.
- Load pressure is well-distributed to prevent deformation, especially damages to bridges and culvert caused by frost in north cold regions.
- Heavy zinc coating ensures great rust and corrosion resistance as well as a longer lifespan.
- Improve safeness of vehicles by maintaining flat road surface and ameliorating the slab staggering in interlocking areas between soft soil foundations and embankment.
- Easy to install due to mounting holes are pre-drilled on each side of corrugated plates according to your requirements.
- Shorter working periods as the project construction and pipe assembly can be carried out separately.
- Low requirements to bearing capacity and planeness of soil foundations.
- Cost saving due to low transport cost, low labor cost and low maintenance cost, etc.
- Economical for bridge construction and replacement.
- Providing more environment protection as traditional construction materials such as sand, wood and stones are decreased significantly.
- Curved plates in different radii are marked for easy identification.
- Assembly drawings and instructions are enclosed for providing helpful guidance to installers.

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SB-AW Assembled Corrugated Pipe (ISO) *(AWCQJOMPEACP01)*

Applications

- Culverts.
- Stream crossing.
- Grade separations.
- Arch structures.
- Bridges.
- Stockpiles.
- Fish passages.
- Conveyor covers.
- Tunnels.
- Mine retaining walls for road supporting.
- Detours.
- Underpass for pedestrians, vehicles and wildlife.
- Drain pipes.



Specifications

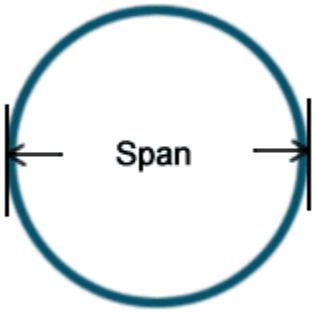
SB-AW Assembled Corrugated Pipe

- **Material:** Quality steel such as Q235A, Q253B or S400, etc.
- **Thickness:** From 0.22" to 0.38".
- **Corrugation size:** 2-2/3" × 1/2", 3" × 1", 5" × 1", 6" × 2"
- **Spans:** 5' to 40'.
- **Anti-corrosion treatment:** Galvanized.
- **Zinc coating thickness:** ≥ 84um.

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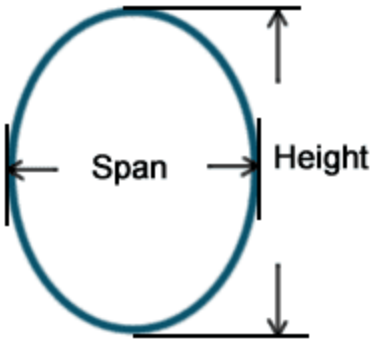
These corrugated plates can be curved to various radii; meanwhile, these plates can be assembled into various shapes as shown in the following pictures:

Round



- 5' to 40' in span.
- Most commonly used shape for buried structures such as culverts, drains, sewers, tunnels, etc.
- Ideal for supporting medium and deep fill heights.
- Additional earth filling along the pipe bottom is available to form a smooth stream bed.

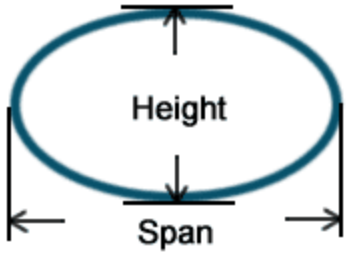
Vertical Ellipse



- S × H: 4'-8" × 5'-2" to 25' × 27'-8".
- Commonly used shape for culverts, sewers, railroad, tunnels, pedestrian underpass, etc.
- Ideal for supporting greater height of covering.
- The pipe bottom can be filled with earth for creating a smooth underpass.

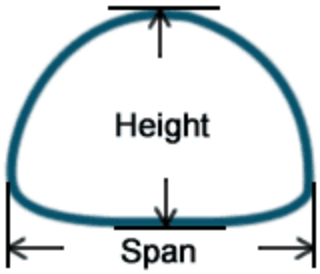
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Horizontal Ellipse



- S × H: 7'-4" × 5'-6" to 14'-11" × 11'-12".
- Allow for the lowest installation cost as concrete footings is not needed for during installation.
- Provide excellent vehicle, pedestrian or wildlife underpasses, culverts and tunnels, etc.
- Stream bed materials can be filled along the pipe.

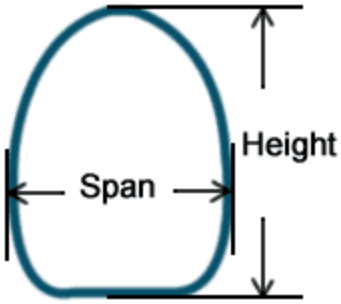
Pipe arch



- S × H: 6'-1" × 4'-7" to 20'-7" × 13'-2".
- Cover plate radii: 18" or 31"
- Ideal for culvert and small bridges where headroom is limited.
- Providing excellent hydraulic advantages at low flows.
- The cover height depends on the soil bearing.

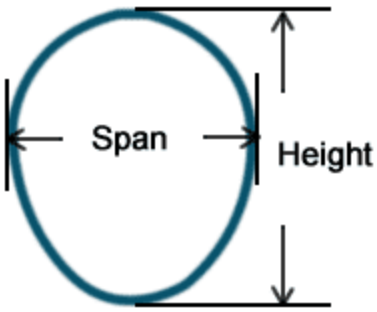
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Underpass



- S × H: 5'-8" × 5'-9" to 20'-4" × 17'-9".
- Designed to be used where better vertical clearance and flat bottom are needed, such as underpass for pedestrians, auto, truck, livestock, railroad, golf cart and vehicles, etc.
- Requiring a good soil bearing capacity in the corner region.

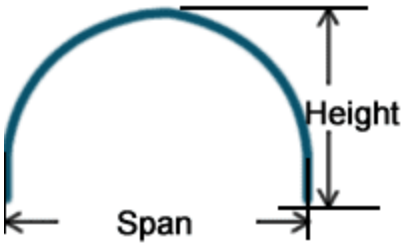
Deep profile arch



- S: 25' to 30'.
- Ideal to be used for culverts, grade separations, tunnels and storm sewers, etc.
- Requiring a good soil bearing capacity in the corner region similar to underpass type assembled corrugated pipe.

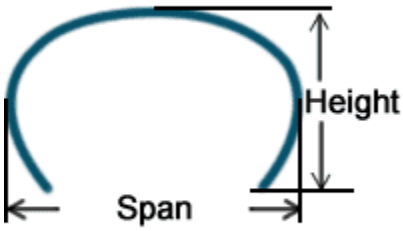
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Plate arch



- S × H: 6' × 1'-9-1/2" to 25' × 12'-6".
- Perfect for maximizing flow capacity in low clearance applications.
- Provide great look and feel of a stone arch bridge.
- Suitable to a wide range of burial depths.

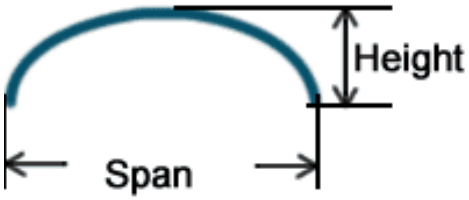
Deep profile arch



- S × H: 20'-1" × 9'-1" to 38' × 23'-6".
- Ideal for projects with high cover and where additional hydraulic capacity is required.
- Smaller footings for installation.
- For culverts, grade separations, storm sewers and tunnels, etc.

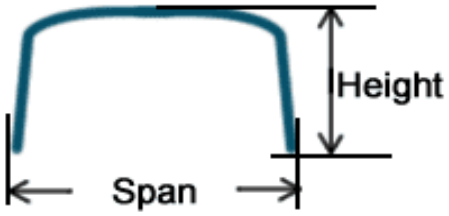
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Low profile arch



- S × H: 19'-5" × 6'-9" to 51'-7" × 24'-2".
- Large span yet low-rise structure is ideal for projects with low covers and needing large open end.
- Perfect for stream, wetland crossings, low-wide waterways, culverts and storm sewers, etc.

Box culvert



- S × H: 9'-8" × 2'-7" to 20'-9" × 10'-2".
- Composite-reinforced rib plate structure allows for effective cost saving for bridges owing to its low height yet wide profile.
- Ideal for low-wide waterway enclosure and culverts, etc.

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SB-AW Assembled Corrugated Pipe (ISO) *(*AWCQJOMPEACP01*)*

Model	Span (m)	Thickness (mm)	Corrugated size (mm)
AWCQJOMPEACP01 A750	0.75m	2.0 to 4.5	68 x 13
AWCQJOMPEACP01 A1000	1.0m	2.0 to 4.5	68 x 13
AWCQJOMPEACP01 A1250	1.25m	2.0 to 4.5	68 x 13
AWCQJOMPEACP01 A1500	1.5m	2.0 to 4.5	68 x 13
AWCQJOMPEACP01 B750	0.75m	2.0 to 4.5	75 x 25
AWCQJOMPEACP01 B1000	1.0m	2.0 to 4.5	75 x 25
AWCQJOMPEACP01 B1250	1.25m	2.0 to 5.0	75 x 25
AWCQJOMPEACP01 B1500	1.5m	2.0 to 5.0	75 x 25
AWCQJOMPEACP01 B2000	2.0m	2.0 to 5.0	75 x 25
AWCQJOMPEACP01 B2500	2.5m	2.0 to 5.0	75 x 25
AWCQJOMPEACP01 B3000	3.0m	2.0 to 5.0	75 x 25
AWCQJOMPEACP01 C750	0.75m	2.0 to 5.0	125 x 25
AWCQJOMPEACP01 C1000	1.0m	2.0 to 5.0	125 x 25
AWCQJOMPEACP01 C1250	1.25m	3.0 to 6.5	125 x 25
AWCQJOMPEACP01 C1500	1.5m	3.0 to 6.5	125 x 25
AWCQJOMPEACP01 C2000	2.0m	3.0 to 6.5	125 x 25
AWCQJOMPEACP01 C2500	2.5m	3.0 to 6.5	125 x 25
AWCQJOMPEACP01 C3000	3.0m	3.0 to 6.5	125 x 25
AWCQJOMPEACP01 E1500	1.5m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E2000	2.0m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E2500	2.5m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E3000	3.0m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E3500	3.5m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E4000	4.0m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E4500	4.5m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E5000	5.0m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E5500	5.5m	3.0 to 6.5	200 x 55
AWCQJOMPEACP01 E6000	6.0m	2.0 to 4.5	200 x 55
AWCQJOMPEACP01 E6500	6.5m	2.0 to 4.5	200 x 55
AWCQJOMPEACP01 E7000	7.0m	2.0 to 4.5	200 x 55
AWCQJOMPEACP01 E7500	7.5m	2.0 to 4.5	200 x 55
AWCQJOMPEACP01 E8000	8.0m	2.0 to 4.5	200 x 55

*Note: Custom-made sizes order for thickness of SB-AW Assembled Corrugated Pipe (ISO) is available and please contact us for more information.

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Project References



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