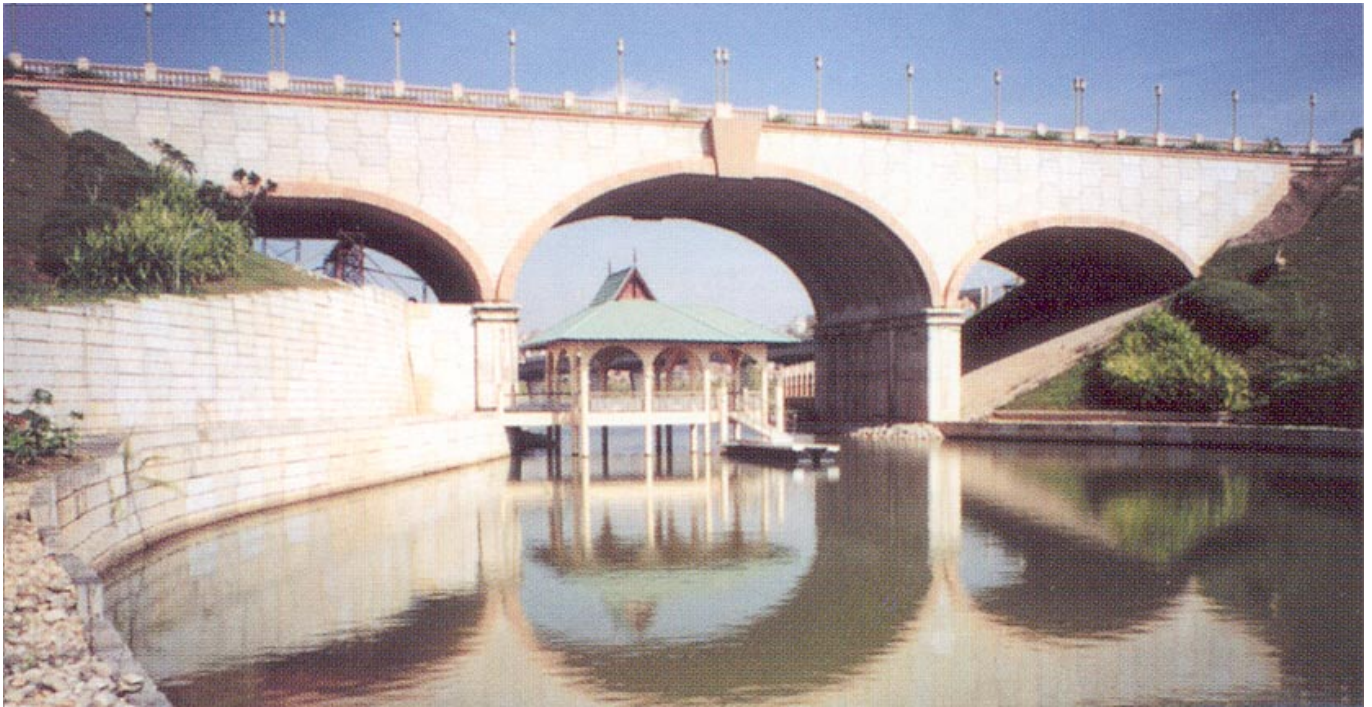


The BEBO[®] System



The world's largest span precast concrete arch bridge – the 25 metre BEBO centre span – in Putrajaya Malaysia.

The Best Overfilled Arch Structures Worldwide

Used by: bridge suppliers, property developers, authorities,
general contractors, contractors and consultants

BEBO[®] 
Arch Systems

BEBO Arch International AG

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Bridges

Spans of 3 metres to 31 metres and more for highway, road, railroad, river, lake, cycle path, golf course and culvert applications and many more.

- highly competitive
- extremely durable
- virtually maintenance free
- low life-cycle costs
- aesthetically pleasing



Tunnels

Cut-and-cover or cover-and-cut with up to 100 metres overfill

- railways, light rail or metro
- highways and transit roads
- utilities, conveyor belts for mass haulage
- sewage outfalls
- underpasses for industrial areas, airports, etc.

Custom tunnel sections designed quickly to owner's requirements or specific site conditions.



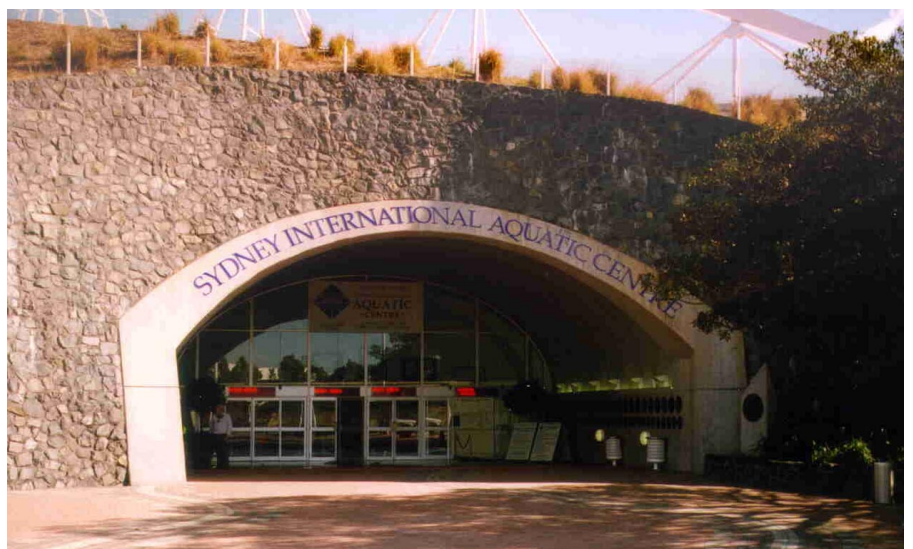
"Versatility is what makes the BEBO System so attractive for a multitude of applications"

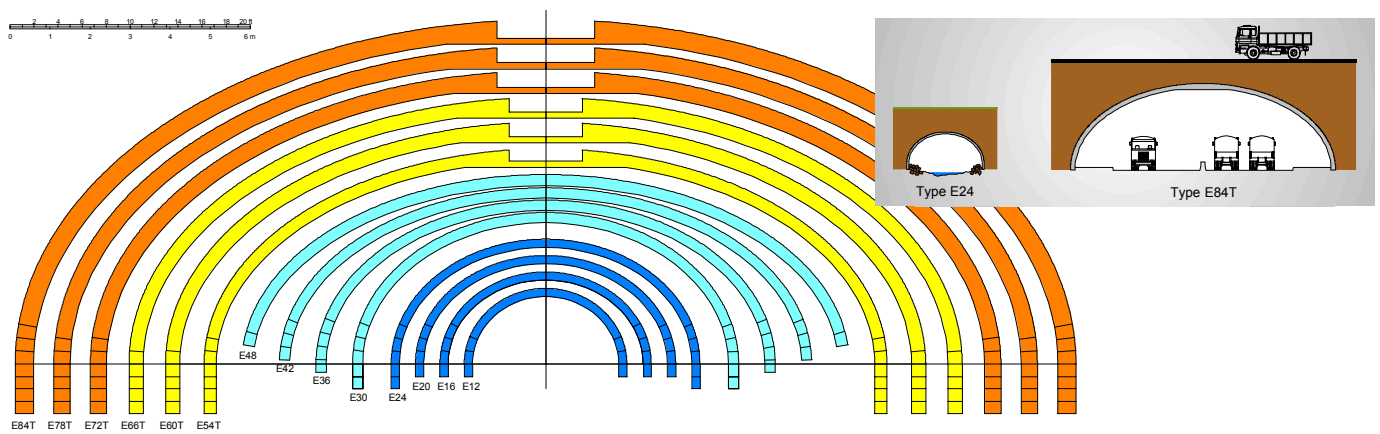
BEBO[®]
Arch Systems

Underground Structures

Overfilled structures for garages, car parks, wine cellars, food storage, water retention, protective structures and even museums.

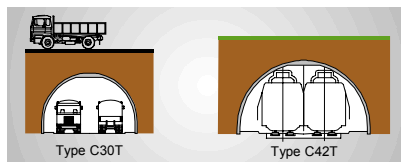
- minimise land usage
- maintain constant internal temperatures
- protect against natural catastrophes, crime, terrorism and weapons effects
- unique novelty features





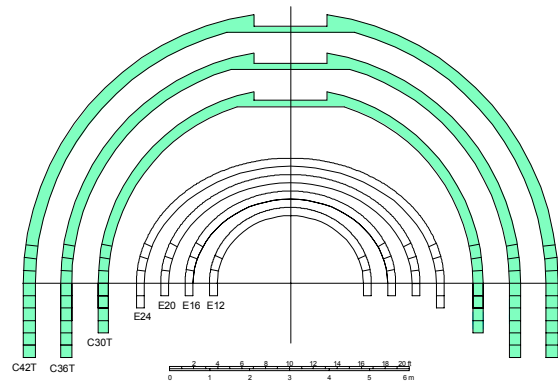
The E-Series

- 80 elliptical shapes – spans of 3.6 to 25.5 metres
- single and twin leaf precast elements
- standard overfill heights of 0.4 to 4.5 metres
- designed for extreme traffic loads

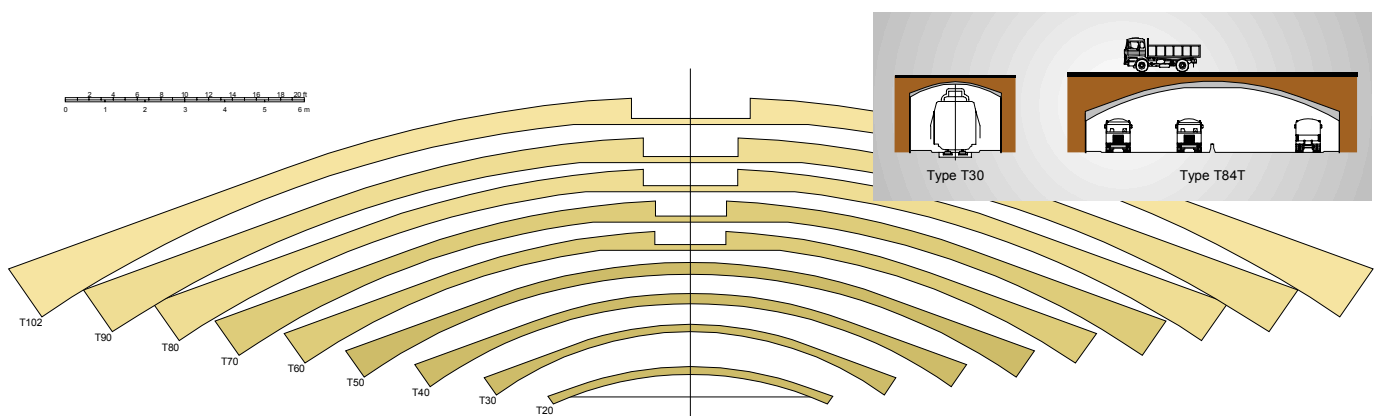


The C-Series

- 30 circular shapes – spans of 9.1 to 12.8 metres
 - single and twin leaf precast elements
 - standard overfill heights of 0.4 to 4.5 metres
 - dedicated design for up to 100 metres overfill
- optimised high overfill elements and foundations



"The BEBO System includes a large selection of highly efficient pre-engineered arch designs"



The T-Series

- shallow arch shapes: span to rise ratios up to 10:1
- any span between 7 and 31 metres or more
- precast or cast-in-place – no counterforms
- bridges with up to 45° skew and more
- ideal for low overfill applications

CONFIDENTIALITY NOTE:

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The world's largest precast overfilled concrete arch, an E84T BEBO under construction in Putrajaya, Malaysia.



A short, precast BEBO railroad tunnel designed to support high overfills and 500 tonne mining trucks.



Space saving, flat profile, column free, precast BEBO parking garage under construction in Germany.

"The comprehensive BEBO products and support services package is difficult to beat"



BEBO History and Application

BEBO arch development started with the first full size test in Switzerland in 1965.

The BEBO arch capitalises on soil-structure-interaction between the reinforced concrete arch / foundations and the surrounding fill.

Almost 500 BEBO structures – mostly precast bridges – have been

built since then in Europe, the United States, Canada, South East Asia and Australia.

The first BEBO structures were installed in 1966 and are still in excellent shape. Experience shows that overfilled reinforced concrete arch bridges are extremely durable and require virtually no maintenance.

They have no exposed bridge deck, no transition joints or slabs and no moving bearings.

Over the years, a wealth of BEBO experience has been accumulated. Various patents underline the uniqueness of the BEBO system, including the latest development: The new T-Series arches.



The BEBO 160 mm thick prototype arch demonstrated BEBO's ability to resist extreme loadings.



Testing of a BEBO structure, Large Span Culvert Field Test program, University of Massachusetts, 1997.



Stoney Brook – A typical, safe and durable small to medium span BEBO bridge application.



"BEBO's experience over many decades and countless applications instils confidence"

