



ALUMINIUM DOME ROOFS FOR WASTEWATER PLANTS AND SEWAGE TREATMENT

In recent decades wastewater plants have been increasingly fitted with Temcor® aluminium roof structures. For covering clarifiers, trickling filters, basins and many other vital parts of a sewage treatment plant an aluminium dome structure may be the perfect choice. Being free-span, light weight and all aluminium structures installing an aluminium dome or structure will result in eliminating emissions and odours and will help sustaining a controlled process environment. The roofs will be custom designed to fit the structure involved, where there will be no need to interrupt the operation of the installation during the construction of the cover.

Dome Features:

- maintenance free, no need for blasting and painting
- excellent vapour tightness
- eliminates any hazardous or irritating emissions and odours
- keeps contaminants out of the treatment process
- moderates process temperatures
- fully compatible with all waste water effluents, including high sulphur containing vapour fractions
- light weight and clear-span structure manufactured from aluminium and stainless steel
- can be fitted on installations in service with minimum modifications
- expected service life in excess of 50 years
- designed for each specific project, complying with local building codes
- easy and quick installation, full installation manuals and project support available
- successfully installed at many wastewater plants around the world
- can be designed for high wind- and snow loads
- esthetical solution for reducing irritating and hazardous odors

ALUMINIUM DOMES



Flat covers:

CTS aluminium flat covers are not only economical, they also offer other practical advantages over traditional covers. Unlike concrete, they can be removed easily and they do not degenerate. They weigh only a fraction of what a steel cover weighs, and they do not corrode, nor do they degrade under ultra-violet light. Obviously frame supported fabric covers are cheaper; but they prevent any access at all and will typically not last beyond a few years of service, where an aluminium flat cover is there to last for extensive periods of time without any maintenance related to the cover.

Aluminium, the material of choice:

Waste water atmospheres can be very aggressive and corrosive for construction materials. From extensive research and experience we know that aluminium is an excellent material and will deal with these circumstances without generating any long term concerns on the integrity of the structure. Even high Sulphurous containing atmospheres will not deteriorate aluminium alloys as used for manufacturing covers for waste water facilities. Combined with the fact that aluminium does not require any surface preparation or coating, this makes aluminium the technically and economically best solution for covering open facilities in urban areas.

Suspended covers:

In certain applications the volume of the air to be treated could generate a concern. The lesser the volume to be treated, the lower the treatment costs. To facilitate this drive for low costs on air treatment we are able to offer suspended, or truss supported covers, both minimising the air volume to be treated. For general applications a waste water cover or dome will be engineered to deal with a slight internal under pressure generated by the air flowing out for treatment. This under pressure will then ensure that waste water air volumes and the belonging remain within the atmosphere of the structure.

Structure and appurtenances:

Apart from aspects mentioned earlier our aluminium structures will be able to deal with existing structures like bridges, access areas, ducting and others. Engineering will revolve around a minimum in changes to the actual waste water plant and the way it is operated. Please request our extensive information to evaluate the possibilities for covering up your plant!



County Sanitation Districts, Orange County, USA ,Flat Covers for Sedimentation Basins.



Trabuco waste water treatment plant, USA
Batch reactor, truss roofs and aerobic digesters.



Suspended low cover from dome structure, to reduce vapour volume to be treated.



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