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# ***Elevated Water Storage Tank Specification Composite Pedestal***

This comprehensive guide provides the

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reader with basic information of the most common types of structures, sites, and objects encountered in industrial archaeology. These include bridges, railroads, roads, waterways, several types of production and extraction factories, water and power generating

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facilities, and others. Each chapters contains a brief introduction to the technology or features of each class of installation, illustrations with characteristics that help identifying important elements of the type, and a glossary of common terms. Two

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chapters offer valuable guidance on researching industrial properties and landscapes. For students, avocational archaeologists, and cultural resource management surveys, this volume will be an essential reference.

Board of Contract Appeals Decisions

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An Introduction to Water Supply  
Systems

International Commerce

Facilities Engineering Handbook

Annual Reports of the Navy

Department for the Fiscal Year ...

***Sir Roger Pratt's "Rules for the***

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***Guidance of Architects", written on 7 December 1665, included the following statements which embody succinctly the principles of the specification of building works and indeed of contract administration, and are as true today as they were nearly 350 years ago: To determine***

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***anything without due premeditation is rashness. Not to come to any determination in a convenient time is an effect either of ignorance or sloth. To wittingly omit to do that at the first, which at last we shall be forced to, at our greater disadvantage, is the extremity of***

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***folly. To be so forward in  
premeditation as to make no trade  
at a stand for want of direction,  
which will cause great repining etc.  
and to be careful to see them  
exactly performed, for otherwise all  
trades will be at catch with him. To  
contrive all things with the most***

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***orderly thrift and longest duration. However, Pratt seems to have relied on entrusting the works to known competent workmen rather than incorporating these wise principles in a written specification. This method of working appears to have continued until the rise of the***

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***general contractor in the nineteenth century when a written specification became an essential part of the design process. The specification was needed to describe the materials to be used and ways of working them and to ensure comparability of tenders,***

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***particularly for public works. This encouraged books on specifications, starting with Alfred Bartholomew's "Specifications for Practical Architecture" in 1840, revised in 1846. It began with a long 'essay on the decline of excellence in the structure and in the science***

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***of modern English buildings with the proposal of remedies for those defects'. This was followed by 54 specifications for various types and classes of buildings, notes on various materials, and an alphabetical digest of the London Building Act, with a comprehensive***

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***index - a multi-purpose book, like many of its successors. Noting that Bartholomew was no longer in print, T. L. Donaldson was prompted to produce his Handbook of Specifications in 1859, in which, after setting out the principles of specification writing, he reproduced***

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***46 specifications for actual buildings and other works by his illustrious contemporaries. This included the "Houses of Parliament" by Sir Charles Barry and "Newcastle High Level Bridge" by Robert Stephenson, and was followed by 136 pages on the law as***

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***applied to building matters. This is a fascinating book, invaluable to construction historians, but will have been of less use to authors of specifications than a sequential list of trade-based clauses.***

***Bartholomew's book was revised again, twice, by Frederick Rogers,***

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***in 1886 and 1893, but still with a similar 'essay' followed by specifications for various types of building (but now only 27), rather than trade-based clauses, for which we had to wait for the first edition of Macey in 1898. Frank W. Macey's predecessors had a tendency to set***

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***out what should be covered in specifications and the ills of poor specification, together with a quantity of information about the use of various materials and construction methods. This was admittedly useful, but better covered in the books on building***

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***construction that had started to appear at about the same date, such as Mitchell and Rivingtons (published in facsimile by Donhead in 2004). Macey, by contrast, dived almost straight in to trade-based clauses in a logical order. The specification author in an***

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***architect's office must have heaved a sigh of relief when Macey landed on his desk, because here was a book that provided just what he needed to 'cut and paste', in the order he needed it, and with marginal sketches showing how the materials and details were applied.***

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***Similarly, students of architecture had a useful source of reference for the work by the various trades, instead of having to look at the trade in each specification when referring to earlier books to decide which example to follow.***

***Contemporary reviews of Macey***

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***criticized the book for being 'out of date' as he failed to cover all the latest developments in materials. In hindsight that attitude appears less than fair, because any architect incorporating recently introduced materials, such as reinforced concrete or metal lathing, would***

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***make sure he was fully conversant with them and their use, and would be able to describe them adequately as a matter of common prudence. No book would be able to keep up to date with the rapidly developing variety of materials appearing almost daily at the dawn of the***

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***Edwardian era. That was more than adequately addressed by the annual (initially quarterly) Specification published by the Architectural Press, which started the same year that the first edition of Macey was published and continued to keep construction professionals***

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***informed every year until 1992.  
Frank Macey revised and enlarged  
the text in 1904 for the second  
edition, having published his  
companion volume on "Conditions  
of Contract" in 1902, and taking  
account of criticisms in The  
Builder's review of his first edition.***

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***It is his second edition that this introduction accompanies, having been chosen by Donhead to give us an exhaustive reference to the materials and construction in use at the end of the Victorian era and the dawn of the twentieth century. It will also help us today when drafting***

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***specifications for work on buildings that have just passed their centenary. Frank William Macey (1863-1935) practised as an architect in the City of London before emigrating to Canada. He was the first resident architect in Burnaby in British Columbia, where***

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***he settled in the first decade of the twentieth century, and obtained a number of commissions from prominent businessmen who were building grand homes in the new community of Deer Lake. He designed predominantly in the British Arts and Crafts style and***

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***introduced the use of rough-cast stucco for building exteriors, a characteristic for which he was renowned. He also designed three churches, two of which are still standing. Macey's Specifications in Detail survived his departure to Canada. The third edition, co-***

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***authored by J. P. Allen, PASI was published in 1922, and the fourth edition, revised by Donald Brooke, MA BArch ARIBA MStructE, a Lecturer in Architecture at the University of Liverpool and J. W. Summerfield, FASI MRSanI, a quantity surveyor, was published in***

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***1930, with a second impression in 1937. The fifth edition, revised by the then late Donald Brooke and Stanley Wilkinson, BArch ARIBA, a Senior Lecturer in Architectural Construction at the University of Liverpool, was published in 1955 and takes specification writing***

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***through to the introduction of the National Building Specification in 1973, continuing where Macey had started, with trade-based clauses in a logical order. A contemporary reviewer of the first edition praised 'so much that is excellent in the book and so many things explained,***

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***of which the young architect would have much difficulty in finding a description in other books'. The fact that Macey gave 'a great amount of practical information as to the details of construction on points which are not usually to be met with in text books' means that this***

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***facsimile should find a place on the bookshelves of construction professionals from all disciplines today, alongside Donhead's other facsimiles, as a well indexed guide to what they can expect to find when working on late Victorian and Edwardian buildings. Students of***

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***conservation practice may like to note this comment from the same contemporary reviewer: It may, therefore, be looked upon as a guide to the young architect in practical matters, quite as much as a model for specification writing. It indeed attempts to furnish the***

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***novice with the knowledge that he ought to possess before sitting down to write a specification. If Macey's book was valued a hundred years ago for these reasons, there is all the more reason today to use it as a reliable reference to what will be found in buildings that have***

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*celebrated their centenary.*

*Lawrance Hurst August 2009.*

*Catalog of Copyright Entries. Third  
Series*

*Provisional Specifications for the  
Installation of Electric High- and  
Low-current Systems in  
Reconditioning Work on Protective*

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**Bunkers**

***NEHRP Recommended Provisions  
(National Earthquake Hazards  
Reduction Program) for Seismic  
Regulations for New Buildings and  
Other Structures  
Technical Specifications, Sequoyah  
Nuclear Plant, Unit No. 2***

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*Annual Report of the Secretary of  
the Navy*

**The first comprehensive  
steel tanks book published  
in more than a decade  
Developed by members of  
the American Water Works**

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**Association (AWWA)  
General Steel Tank  
Committee, Steel Water  
Storage Tanks: Design,  
Construction, Maintenance,  
and Repair is the most  
authoritative source of**

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**industry information  
available. This in-depth  
reference describes the use  
of steel tanks for potable  
water storage and includes  
details on tank sizes,  
capabilities, styles,**

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**construction,  
appurtenances, site  
selection, design,  
operation, maintenance,  
rehabilitation, inspection,  
and security. Complete  
coverage of: Tank history,**

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**typical configurations,  
locating, sizing, and  
selecting Selecting and  
specifying appurtenances  
Controlling corrosion  
Contractual considerations  
Foundations Construction**

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**of welded-steel water-  
storage tanks Construction  
of bolted-steel water-  
storage tanks Operation  
Inspecting new-tank  
construction Maintenance,  
inspection, and repair**

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**Potable water security Tank  
rehabilitation  
National Directory of  
Commodity Specifications  
Classified and Alphabetical  
Lists and Brief Descriptions  
of Specifications of**

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**National Recognition  
Journal of the American  
Water Works Association  
Water Works Engineering  
Army and Air Force  
Vols. for 2012- contain only  
executive summaries of**

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**articles.**

**Guidelines for Drinking-  
water Quality  
Steel Water Storage Tanks:  
Design, Construction,  
Maintenance, and Repair  
Water Supply and Treatment**

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**Miscellaneous Publication -  
National Bureau of  
Standards  
Standard Specifications for  
Elevated Steel Water Tanks,  
Standpipes and Reservoirs**

A survey of manufacturing and

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installation methods, standards, and specifications of factory-made steel storage tanks and appurtenances for petroleum, chemicals, hydrocarbons, and other flammable or combustible liquids. It chronicles the trends towards aboveground storage tanks, secondary

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containment, and corrosion-resistant  
underground steel storage systems.

Commerce Business Daily

Steel Water Storage Tanks (M42)  
Specifications for Structural Range  
Improvements

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A Reclamation Manual Specialist  
Supplement

*The full texts of Armed Services and  
othr Boards of Contract Appeals  
decisions on contracts appeals.*

*1976: January-June: Index*

*Criteria for Drinking Water Storage  
Contract Documents and*

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*Specifications for Lake Erie Water  
Project*

*Handbook of Storage Tank Systems  
Atomic Energy Commission Reports*

***Introductory technical  
guidance for civil and  
environmental engineers***

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***and other professional  
engineers and construction  
managers interested in  
design and construction of  
water supply systems. This is  
what is discussed: 1.***

***DOMESTIC WATER***

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***DISTRIBUTION 2.  
DOMESTIC WATER  
TREATMENT 3. PUMPING  
STATIONS FOR WATER  
SUPPLY SYSTEMS 4.  
TREATED WATER STORAGE  
5. WATER DESALINATION 6.***

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***WATER DISTRIBUTION IN  
COLD REGIONS 7. WATER  
DISTRIBUTION SYSTEM  
APPURTENANCES 8. WATER  
SAMPLING AND TESTING 9.  
WATER SUPPLY SOURCES  
10. WATER SUPPLY***

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***SYSTEMS OPERATION AND  
MAINTENANCE 11.***

***TREATMENT AND STORAGE  
IN COLD REGIONS 12.***

***PUMPS OPERATION AND  
MAINTENANCE.***

***Opinions and Decisions of***

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***the Atomic Energy***

***Commission with Selected  
Orders***

***Welding Manual***

***A Field Guide***

***NBS Special Publication***

***Annual Report of the Chief***

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***of the Bureau of Yards and  
Docks to the Secretary of the  
Navy for the Fiscal Year ...***