

Out of the box

DELIVERY



HYDRATION



INFLATION



SETTING



CONCRETE CANVAS SHELTER

Ergonomic and functional, Concrete Canvas Shelter (CCS) is a rapidly deployable hardened shelter that requires only water and air for construction. With a design life of over 10 years, it is ready for use in 12 hours, making it more purposeful as compared to tents. The Concrete Canvas Shelter has been enabled by the development of a core material technology in Concrete Cloth, a cement impregnated fabric that enables thin shell forms to be created quickly and easily. The key to CCS is the use of inflation to create a surface that is optimised for compressive loading. The technology can be scaled to provide larger structures; a 25 m variant is currently under development.

The low mass and fibre matrix locked inside the concrete, gives the structure good earthquake performance. The structure can withstand a very high-distributed compressive load enabling earth beaming by piling sandbags, earth or snow on top. It can also provide protection against shrapnel, blasts and small arms and provides a level of security not possible with soft skinned structures. It can be delivered sterile; for use as temporary emergence centre.

With better protection in disasters, like the tsunami and in extreme climatic conditions, better security against looting and utility in medical procedures, it provides all the benefits of a permanent structure without the associated costs and time delays, making it a very significant invention.

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