

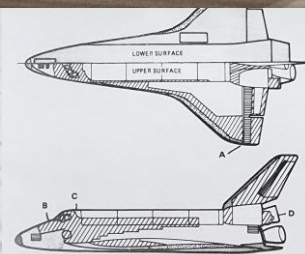
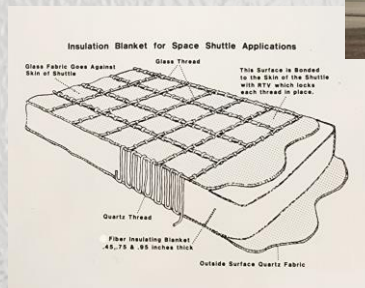


Excelflex® LRSI Insulation

Low-Temperature Reusable Surface Insulation

Excelflex® LRSI Insulation Systems

Excelflex® Insulation Systems are one of the flexible versions of Thermo Dyne's insulation product line. This system is designed for reentry vehicles outer insulation protection covering that is applied to the spacecraft's external surface. Designed to withstand the extreme temperatures encountered during atmospheric re-entry, this insulation serves a critical role in ensuring the shuttle's structural integrity and crew safety. Composed of advanced materials such as quartz fibers and fabric quilted together so that it can be bonded to the vehicle's surface. The insulation acts as a barrier against the searing heat generated by air friction. Its intricate design and composition enables effective heat dissipation and prevents damage to underlying components. This outer insulation is meticulously engineered and applied, providing the vehicle with the necessary thermal protection to withstand the rigorous demands of space exploration and re-entry into Earth's atmosphere. The superior thermal performance of Excelflex® LRSI insulation allows the maximum amount of thermal protection to be provided within minimum space and weight requirements.



Cage code 3D8W8

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