Helping Department of Defense Understand TFS Options

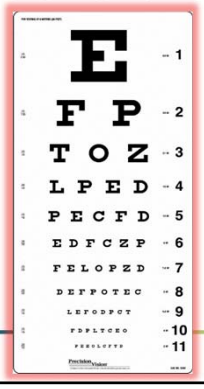
Greg Jones

FORTRESS FABRICSTRUCTURES

IFAI EXPO

1

Yay! Another PowerPoint Deck.



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2

Yay! Another PowerPoint Deck.

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3

They are just tents, right?

- Often Multi-purpose
- Highly portable – item of equipment
- Size – Relatively small, erect in hours with minimal resources
- Durability – Short term
- Not designed/engineered IAW building code

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4

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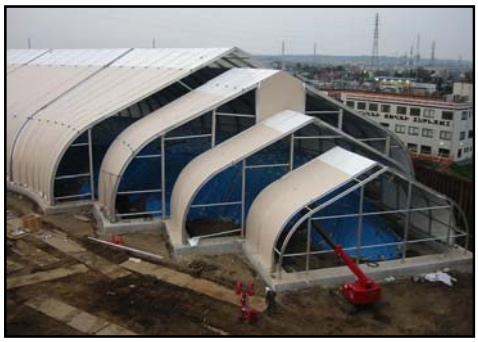

Sprung Structures

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7

Big Top Shelters

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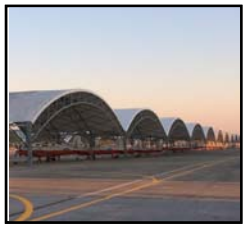
8



Shelter Structures

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9

EXPO

10

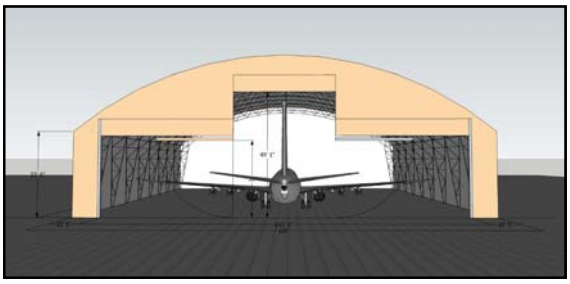
EXPO

11

EXPO

12

13



14

15

SCEYE
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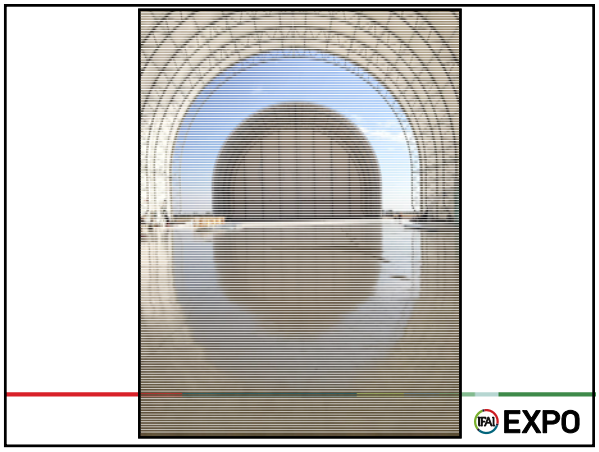
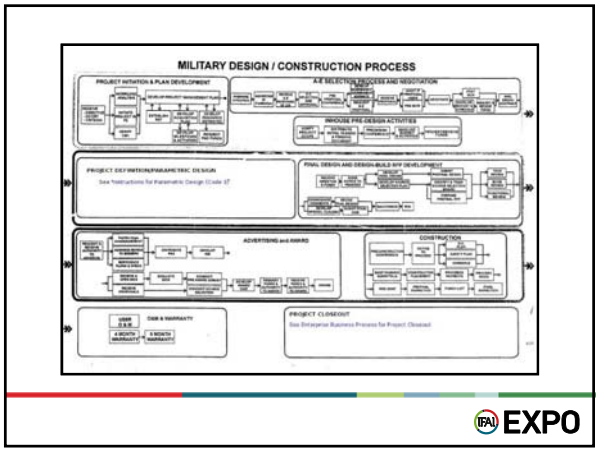
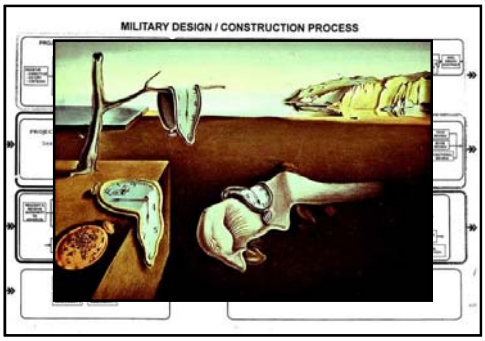
16


EXPO

17


MILITARY DESIGN / CONSTRUCTION PROCESS
EXPO

18



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19

Federal Acquisition Process

- Federal Acquisition Regulation
  - FARS / DFARS
- Other Laws
  - Berry Amendment
  - Buy American Act – 1933
  - Davis-Bacon

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20

Governing Specifications

- Unified Facilities Criteria
  - 1-200-01 General Building Requirements
  - 1-201-01 Non-permanent DOD Facilities
  - 3-301-01 Structural Engineering
- International Building Code
  - Incorporated into UFC where appropriate
- ASCE 7 – Minimum Design Loads …
- NFPA 701

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21

Statement of Work

EXPO

22

Statement of Work

EXPO

23

Frame Types / Materials

EXPO

24

Frame Types / Materials

Sprung Structures

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25

Frame Types / Materials

EXPO

26

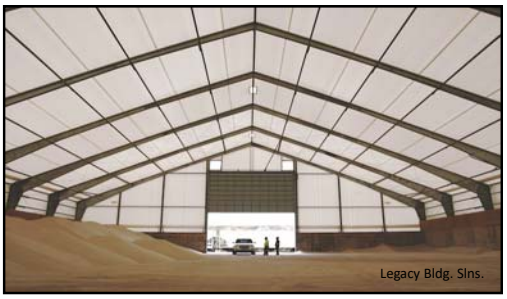
Frame Types / Materials

Unknown

EXPO

27

Frame Types / Materials



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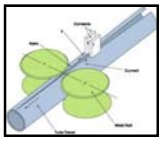
28



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29

A500	A513
Looser Dimensional Tolerances (ex: 2×2-.083, Corner Radius max is .249")	Tighter Dimensional Tolerances (ex: 2×2-.083, Corner Radius is 5/64" to .125")
Physical Requirements (Yield, Tensile, Elongation)	No Physical Requirements
Stenciling (required for material with a 5" or larger side)	No Stenciling required

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30

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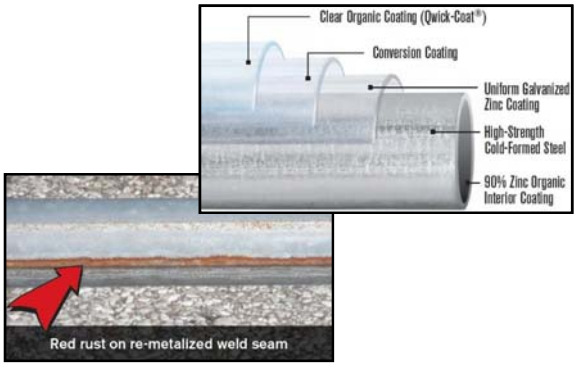
31



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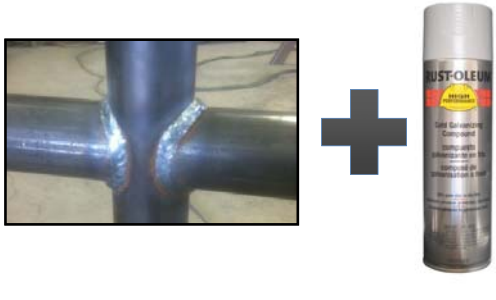
32



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33

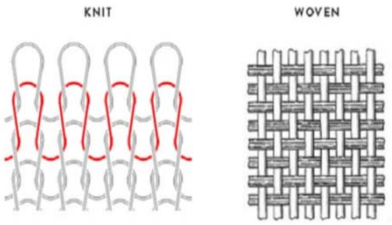
34

Fabric Cover Options

- PTFE
- Silicone-coated fiberglass
- Woven PTFE
- PVC-coated polyester
- PVC-laminated polyester
- High-density polyethylene (HDPE)
- ETFE

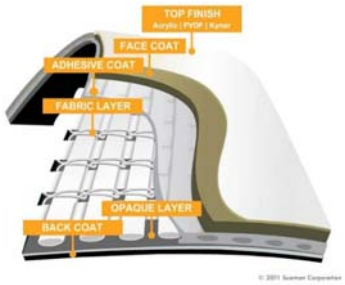
35

Fabric Cover Options



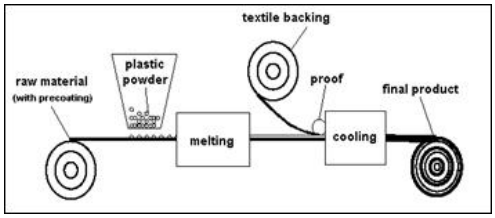
36

Fabric Cover Options



37

Fabric Cover Options



American Journal of Polymer Science

38

Anchoring & Foundation

39

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40

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41

Accessories

EXPO

42

Accessories

43

Accessories

44

Accessories

45

Installation

EXPO

46

Installation

EXPO

47

Installation

EXPO

48

Installation

EXPO

49

Warranty

Nothing is free.

- Know what are the requirements to maintain warranty coverage.
- Know duration and any pro-ration schedule of the warranty.
- Know what is covered and what is not.
- Is the extended warranty worth the cost?

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50

Conclusion

Learn about Tension Fabric Structures before you have to draft a Statement of Work and parse a multitude of bid submissions.

Seek out any qualified OEM. They should be willing to knowledgeably discuss all of the options and even advise if their own product is not the best solution for a particular need.

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51

Thank You

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52