CLAIMS

1. A spall liner comprising:

a first plurality of individual flexible fabric plies of ballistic protective material of a first dimension secured ~~together~~ to each other and secured to a first tie layer of a second, larger dimension;

at least a second plurality of individual flexible fabric plies of ballistic protective material of the first dimension secured ~~together~~ to each other and secured to a second tie layer of a dimension larger than the first dimension;

the first and second tie layers secured together at outer edges thereof;

a cover; and

separable fastener structure of a first type on the cover for removeably securing the liner to the inside hull of a vehicle equipped with separable fastener structure of a second type.

2. The spall liner of claim 1 in which the first plurality of fabric plies are sewn together and to the first tie layer.

3. The spall liner of claim 1 in which the second plurality of fabric plies are sewn together and to the second tie layer.

4. The spall liner of claim 1 in which the cover is sewn to the periphery of the first and second tie layers.

5. The spall liner of claim 1 further including a binder secured over the cover about the periphery of the first and second tie layers.

6. The spall liner of claim 5 in which the binder is sewn over the cover about the periphery of the first and second tie layers.

7. The spall liner of claim 1 in which the plies are made of a ballistic protective fabric ~~or~~ material.

8. The spall liner of claim 1 in which the tie layers are made of a ballistic protective fabric or material.

9. The spall liner of claim 1 in which the cover is made of Codura or other fabric.

10. The spall liner of claim 1 in which the separable fastener structure of the first type includes loop fasteners.

11. The spall liner of claim 1 in which the separable fastener structure of the first type is a layer secured to a side of the cover.

12. The spall liner of claim 11 in which the layer is laminated to the cover.

13. The spall liner of claim 1 in which the cover includes an inward layer

including the separable fastener structure of the first type and an outward layer extending over the periphery of the tie layers.

14. The spall liner of claim 1 in which the first tie layer is larger than the second tie layer and the second tie layer is larger than the plies.

~~15. A method of making a spall liner, the method comprising:~~

~~assembling a first plurality of flexible fabric plies of a first dimension;~~

~~securing the first plurality of fabric plies together and to a first tie layer of a second, larger dimension;~~

~~assembling a second plurality of flexible fabric plies of the first dimension;~~

~~securing the second plurality of fabric plies together and to a second tie layer;~~

~~securing the first and second tie layers together;~~

~~covering the first and second fabric plies and the first and second tie layers; and~~

~~securing separable fastener structure of a first type to the cover.~~

~~16. The method of claim 15 further including the step of securing separable fastener structure of a second type to the inside hull of a vehicle and releasably attaching the separable fastener structure of the first type on the cover to the separable fastener structure of the second type.~~

~~17. The method of claim 15 in which securing the first plurality of fabric plies together and to the first tie layer includes sewing.~~

~~18. The method of claim 15 in which securing the second plurality of fabric plies together and to the second tie layer includes sewing.~~

~~19. The method of claim 15 in which covering the first and second fabric plies and the first and second tie layers includes securing a binder over the cover about the periphery of the first and second tie layers.~~

~~20. The method of claim 19 in which the binder is sewn over the cover about the periphery of the first and second tie layers.~~

~~21. The method of claim 15 in which the plies are made of a ballistic protective fabric or material.~~

~~22. The method of claim 15 in which the tie layers are made of a ballistic protective fabric or material.~~

~~23. The method of claim 15 in which the cover is made of Codura or other fabric.~~

~~24. The method of claim 15 in which the separable fastener structure of the first type includes a layer fasteners.~~

~~25. The method of claim 24 in which the layer is laminated to the cover.~~

~~26. The method of claim 15 in which the first tie layer is larger than the second tie layer and the second tie layer is larger than the plies.~~

~~27. An armor kit comprising:~~

~~a number of panels each conforming to a different portion of the inside hull of a vehicle, each panel comprising:~~

~~a first plurality of flexible fabric plies of a first dimension secured together and secured to a first tie layer of a second, larger dimension;~~

~~at least a second plurality of flexible fabric plies secured together and secured to a second tie layer;~~

~~the first and second tie layers secured together;~~

~~a cover;~~

~~separable fastener structure of a first type on the cover for removeably securing the liner to the inside hull of a vehicle equipped with separable fastener structure of a second type; and~~

~~separable fastener structure of a second type securable to the inside hull of the vehicle.~~

~~28~~15. A spall liner comprising:

a first plurality of flexible fabric plies of a first dimension secured together and secured to a first tie layer of a second, larger dimension;

at least a second plurality of flexible fabric plies secured together and secured to a second tie layer; ~~and~~

the first and second tie layers secured together;

a cover extending over the periphery of each of the first and second tie layers and over the first plurality of flexible fabric plies; and

a third plurality of flexible fabric plies and a third tie layer secured thereto and to the first and second tie layers.

~~29~~16. The spall liner of claim ~~29~~15 further including:

~~a cover, and~~

a separable fastener structure of a first type on the cover for removeably securing the liner to the inside hull of a vehicle equipped with a separable fastener structure of a second type.

~~30~~17. The spall liner of claim ~~29~~15 in which the second plurality of plies are of the first dimension.

~~31~~18. The spall liner of claim ~~29~~15 in which the first tie layer is larger than the second tie layer and the second tie layer is larger than the first dimension.

~~32. The spall liner of claim 29 further including a third plurality of flexible fabric plies and a third tie layer secured thereto and to the first and second tie layers.~~

~~33~~19. The spall liner of claim ~~22~~15 in which the third plurality of flexible fabric

plies are of the first dimension, the first tie layer is larger than the second tie layer, the third tie layer is the same size as the second tie layer or smaller than the second tie layer, and all the tie layers are larger than the first dimension.