



What is claimed is:

1. A composite panel for a rooftop surface comprising:

a core material board having a top surface and a bottom surface with a plurality of openings through said core material board extending from said top surface to said bottom surface;

a rigid outer shell of solid material that encapsulates said core material board;

a plurality of supports of said solid material wherein each of said plurality of supports extends through one of said plurality of openings in said core material board; and

a plurality of legs on a portion of said rigid outer shell covering said bottom surface of core board material.

2. The composite panel of claim 1 wherein said plurality of supports are integral to said rigid outer shell.

3. The composite panel of claim 1 wherein each of said plurality of supports is a column.

4. The composite panel of claim 1 further comprising:

a gap between a surface of a structure and a portion of said rigid outer shell over said bottom surface of said core material board created by said plurality of legs supporting said composite panel over said surface of said structure.

5. The composite panel of claim 4 further comprising:

a flow path under said panel in said gap defined by said plurality of legs.



6. The composite panel of claim 4 further comprising:
a plurality of flow paths under said panel in said gap defined by said plurality of legs.
7. The composite panel of claim 1 where in each of said plurality of legs is cylinder shaped.
8. The composite panel of claim 1 wherein said core material board is chemically bonded to said rigid outer shell.
9. The composite panel of claim 1 wherein said core material board comprises:
a polystyrene foam board.
10. The composite panel of claim 1 wherein said rigid outer shell comprises:
a cement mixture.
11. The composite panel of claim 1 wherein each of said plurality of supports is substantially aligned with one of said plurality of legs.
12. The composite panel of claim 1 further comprising:
a covering over a surface of a portion of said rigid outer shell covering said top surface of said core material board.
13. A method for producing a composite panel comprising:
placing a core material board having a top surface, a bottom surface, and a plurality of openings through said core material board from said top surface to

said bottom surface in a formwork having a base surface with a plurality of recesses defined in said base surface, a plurality of pins extending upwards from said base surface, and an upturned skirting around a peripheral edge of said base surface wherein said core material board is separated from said base surface by said plurality of pins and is spaced apart from said upturned skirting;

filling said formwork with a viscous material that fills said plurality of recesses, fills said plurality of openings in said core material board and surrounds said core material board in said formwork; and

allowing said viscous material to harden into a rigid outer shell encapsulating said core material board.

14. The method of claim 13 further comprising:

trowelling a top surface of said viscous material to create a smooth surface responsive to pouring said viscous material into said formwork.

15. The method of claim 13 further comprising:

pouring pebbles onto a surface of said viscous material after pouring said viscous material into said formwork.

16. The method of claim 13 further comprising:

pouring a colored powder onto a top surface of said viscous material after pouring said viscous material into said formwork.

17. The method of claim 13 further comprising:
covering a top surface of said rigid outer shell with a material after
hardening said viscous material into said rigid outer shell.
18. The method of claim 13 further comprising:
removing said composite panel from said formwork after said viscous
material has hardened into said rigid outer shell.
19. The method of claim 13 wherein said core material board is made of polystyrene
foam.
20. The method of claim 13 wherein said viscous material is a cement mixture.
21. The method of claim 20 further comprising:
preparing said cement mixture prior to pouring said cement mixture into
said formwork.
22. The method of claim 13 further comprising:
aligning each of plurality of openings through said core material board with
one of said plurality of recesses in said formwork.