

CLAIMS

1. A scaffolding module for multi level building scaffolding, comprising:
a frame that, when in an erected configuration, defines an interior space; and
a plurality of mounting regions that allow the module to be mounted with other
said scaffolding modules, wherein when so mounted, the module frames are
able to be interconnected to form a multi level support structure of the
scaffolding for supporting one or more scaffolding platforms which provide
working platforms for supporting workers within the interior spaces of the
interconnected module frames.
2. A scaffolding module of claim 1, further comprising at least one scaffolding
platform section disposed in and supported by said frame, wherein the module
includes mounting regions on opposite side faces of the frame so that the
module may be mounted with other said modules in side by side relation, and
when so mounted, the respective scaffolding platform sections of the modules
form at least part of one or more said scaffolding platforms that extends across
the side by side mounted modules at one level of the scaffolding.
3. A scaffolding structure of claim 2, wherein the platform section is mounted on a
lower portion of the frame.
4. A scaffolding module according to any preceding claim, wherein the scaffolding
module includes mounting regions on upper and lower faces of the frame so that
the module may be mounted with other said modules one on top of the other to
form multiple levels of the support structure.
5. A scaffolding module according to any preceding claim, wherein at least some
of the mounting regions are configured as surfaces which are arranged to abut in
face to face relation with a corresponding mounting surface of another said
module.

6. A scaffolding module for multi level building scaffolding, comprising:
a frame that, when in an erected configuration, defines an interior space; and
a plurality of mounting regions that allow the module to be mounted with other
said scaffolding modules, wherein at least some of the mounting regions are
configured as surfaces which are arranged to abut in face to face relation with a
corresponding mounting surface of another said module.
7. A scaffolding module of claim 6, wherein the module includes mounting regions
on opposite side faces of the frame so that the module may be mounted with
other said modules in side by side relation.
8. A scaffolding module of claim 7, wherein when the module is mounted with
other said scaffolding modules, the module frames are able to be interconnected
to form a support structure for one or more scaffolding platforms.
9. A scaffolding module according to any preceding claim, wherein at least some
of the mounting regions include pre-formed holes to receive mechanical
fasteners to secure respective ones of the mounted modules together.
10. A scaffolding module according to any preceding claim, wherein the frame is
rigid when in its erected condition.
11. A scaffolding module according to any preceding claim, wherein said frame is
formed from a plurality of frame members.
12. A scaffolding module according to claim 11, wherein the frame members are
interconnected by rigid connections.
13. A scaffolding module according to claim 11, wherein at least some of the frame
members are interconnected by releasable connections to allow the module to
adopt a collapsed configuration.

14. A scaffolding module according to any one of claims 11 to 13, wherein at least some of the frame members are formed from profiled sections having an outer surface that forms a respective mounting region of said module.
15. A scaffolding module according to any one of claims 11 to 13, wherein at least one of the frame members is formed from an angle section.
16. A scaffolding module according to claim 15, wherein the angle section is arranged to abut with a corresponding angle section of another said module to form a T-section.
17. A scaffolding module according to any one of claims claim 14 to 16, wherein when the module is interconnected with another said module, at least one of the sections of respective ones of the mounting regions are interconnected so as to be in intimate contact so as to act effectively as a unitary structure.
18. A scaffolding module according to any one of claims 11 to 17, wherein the frame has a plurality of external faces formed from respective ones of the frame members.
19. A scaffolding module according to claim 18, wherein the module is arranged to be interconnected to another said module with one face of the frame being in opposing relation with a face of the frame of the other said module.
20. A scaffolding module according to claim 19, wherein the respective opposing faces contain the mounting region which are in abutting relation with one another when the modules are interconnected.
21. A scaffolding module according to any preceding claim, wherein the frame is shaped as a prism.
22. A scaffolding module according to claim 21 wherein the frame is cuboid.

23. A scaffolding module according to any preceding claim, further comprising a guide arrangement to align at least one mounting region of the module with a mounting region of another said module in mounting of the modules.
24. A scaffolding module according to claim 23, wherein the guide arrangement is operative to align the mounting regions when mounting one module on top of another module.
25. A scaffolding module according to claim 23 or 24, wherein the guide arrangement comprises a guide structure that extends one of an upper or lower face of said frame, and a recess in an opposite one of said upper or lower face of the frame.
26. A scaffolding module according to claim 25, wherein the guide structure and/or recess comprises at least one ramped surface for aligning one module on top of another module.
27. A scaffolding module according to claim 25 or 26, wherein the guide structure also provides a lifting point for said module.
28. A scaffolding module according to claim 23 or 24, wherein the guide arrangement comprises of at least one guide lug that extends from an upper face of said frame, and a recess in a lower face of the frame.
29. A scaffolding module according to claim 28, wherein the guide lug and/or recess comprises at least one ramped surface for aligning one module on top of another module.
30. A scaffolding module according to claim 28 or 29, wherein an eyelet is provided in the guide lug for providing a lifting point for said module.

31. A scaffolding module according to any preceding claim, further comprising a barrier structure extending across an in use outer face of said module.
32. A panel comprising:
 - a panel frame; and
 - at least one mounting region that allows the panel to be mounted to at least one of the mounting regions of a scaffolding module according to any one of the preceding claims,wherein when so mounted to a scaffolding module, the panel covers at least part of one face of the said scaffolding module.
33. A multi level scaffolding assembly comprising:
 - a support structure comprising the frames of a plurality of scaffolding modules according to any one of claims 1 to 30 that are connected together; and
 - one or more work platforms supported on the support structure at one or more levels of the scaffolding assembly.
34. A scaffolding assembly according to claim 33, further comprising at least one base module supporting the support structure formed from said plurality of scaffolding modules, wherein the at least one base module is adjustable in height and/or orientation.
35. A scaffolding assembly according to claim 34, wherein the at least one base module further comprises of a plurality of height adjustable legs.
36. A scaffolding assembly according to claims 33 to 35, further comprising ties for securing the support structure to an adjacent structure.
37. A scaffolding assembly according to any one of claims 33 to 36, further comprising at least one panel according to claim 32, wherein the panel is mounted on at least part of one face of at least one of the plurality of scaffolding modules.

38. A method of erecting scaffolding comprising:
- providing a plurality of modules as claimed in any one of claims 1 to 31;
 - arranging the plurality of scaffolding modules in a predetermined manner; and
 - scouring the scaffolding modules together.
39. A method of erecting scaffolding according to claim 38, further comprising arranging the plurality of scaffolding modules in a predetermined manner by hoisting and locating the modules with a crane.
40. A method of erecting scaffolding according to claim 38 or 39, wherein before arranging the plurality of scaffolding modules in a predetermined manner, at least two scaffolding modules are connected together.
41. A method of erecting scaffolding according to any one of claims 38 to 40 further comprising:
- providing at least one base module according to any one of claims 34 to 35;
 - adjusting the height and/or orientation of the base module; and
 - arranging the plurality of scaffolding modules on the at least one base module.
42. A method of erecting scaffolding according to any one of claims 38 to 41, wherein each module has an in-use outer face, inner face, and two side faces, each face including a mounting region, wherein the method comprises locating the side face of at least one module in an abutting relationship with an inner face of another module, and securing the abutting mounting regions together.
43. A method of erecting scaffolding according to any one of claims 38 to 41, wherein the predetermined arrangement includes one module spaced from another module, and the method further comprises:
- providing at least one panel according to claim 32; and
 - mounting the at least one panel to at least one mounting region on each of the spaced modules, wherein the panel interconnects the spaced modules.

44. A method of erecting scaffolding according to any one of claims 38 to 43,
further comprising transporting the framed scaffolding modules to a site to be
~~erected either as separate modules or in interconnected groups of modules.~~

CLAIMS

1. A scaffolding module, comprising;
a frame that, when in an erected configuration, defines an interior space
5 configured to receive workers; and
a plurality of mounting regions that allow the module to be mounted with other
said scaffolding modules, wherein at least some of the mounting regions are
configured as surfaces which are each arranged to mount in face to face relation
with a corresponding mounting surface of another said module.
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2. A scaffolding module of claim 1, wherein the mounting regions are disposed on
(i) upper and lower faces of the frame so that the module may be mounted with
other said modules one on top of the other to form multiple levels of the
scaffolding and (ii) on opposite side faces of the frame so that the module may
15 be mounted with other said modules in side by side relation.
3. A scaffolding module of claim 2, wherein when arranged to be mounted in side
by side relation, the opposite side faces have openings to allow the workers to
freely pass to another said module.
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4. A scaffolding module according to any preceding claim, wherein, when so
mounted with other said modules, the module frames are able to be
interconnected to form a support structure for one or more scaffolding
platforms arranged to support workers received in the interior spaces of the
25 frames.
5. A scaffolding module according to claim 4, further comprising at least one
scaffolding platform section disposed in and supported by the frame, the
platform section forming part of the one or more scaffolding platforms.
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6. A scaffolding module according to any preceding claim, wherein when the
mounting regions are disposed on upper and lower faces of the frame so that the

module may be mounted with other said modules one on top of the other to form multiple levels of the scaffolding, and wherein the module further comprises an internal staircase in the frame to provide worker access between the multiple levels.

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7. A scaffolding module according to any preceding claim, wherein at least some of the mounting regions include pre-formed holes to receive mechanical fasteners to secure respective ones of the mounted modules together.

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8. A scaffolding module according to any preceding claim, wherein the frame is rigid when in its erected condition.

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9. A scaffolding module according to any preceding claim, wherein said frame is formed from a plurality of frame members.

10. A scaffolding module according to claim 9, wherein the frame members are interconnected by rigid connections.

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11. A scaffolding module according to claim 9, wherein at least some of the frame members are interconnected by releasable connections to allow the module to adopt a collapsed configuration.

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12. A scaffolding module according to any one of claims 9 to 11, wherein at least some of the frame members are formed from profiled sections having an outer surface that forms a respective mounting region of said module.

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13. A scaffolding module according to any one of claims 9 to 12, wherein at least one of the frame members is formed from an angle section having an outer surface that forms a respective mounting region of the module.

14. A scaffolding module according to claim 13, wherein in mounting the module with another said module, the outer surface of the angle section is arranged to abut with a corresponding outer surface of the angle section of the another said module to form a T-section.

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15. A scaffolding module according to any one of claims claim 11 to 14, wherein when the module is interconnected with another said module, at least one of the sections of respective ones of the mounting regions are interconnected so as to be in intimate contact so as to act effectively as a unitary structure.

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16. A scaffolding module according to any one of claims 9 to 15, wherein the frame has a plurality of external faces formed from respective ones of the frame members.

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17. A scaffolding module according to claim 16, wherein the module is arranged to be mounted to another said module with one face of the frame being in opposing relation with a face of the frame of the other said module.

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18. A scaffolding module according to claim 17, wherein the opposing faces form respective mounting regions of the modules and are in abutting relation with one another when the modules are mounted together.

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19. A scaffolding module according to any preceding claim, wherein, when so mounted with another said module, the modules are arranged to be interconnected to form a support structure by mechanical fasteners that extend through the mounting surfaces arranged in face to face relation.

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20. A scaffolding module according to any preceding claim, wherein the frame is shaped as a prism.

21. A scaffolding module according to claim 20 wherein the frame is cuboid.

22. A scaffolding module according to any preceding claim, further comprising a guide arrangement to align at least one mounting region of the module with a mounting region of another said module in mounting of the modules.
- 5 23. A scaffolding module according to claim 22, wherein the guide arrangement is operative to align the mounting regions when mounting one module on top of another module.
- 10 24. A scaffolding module according to claim 22 or 23, wherein the guide arrangement comprises a guide structure that extends one of an upper or lower face of said frame, and a recess in an opposite one of said upper or lower face of the frame.
- 15 25. A scaffolding module according to claim 24, wherein the guide structure and/or recess comprises at least one ramped surface for aligning one module on top of another module.
- 20 26. A scaffolding module according to claim 24 or 25, wherein the guide structure also provides a lifting point for said module.
- 25 27. A scaffolding module according to claim 22 to 26, wherein the guide arrangement comprises of at least one guide lug that extends from an upper face of said frame, and a recess in a lower face of the frame.
- 30 28. A scaffolding module according to claim 27, wherein the guide lug and/or recess comprises at least one ramped surface for aligning one module on top of another module.
29. A scaffolding module according to claim 27 or 28, wherein an eyelet is provided in the guide lug for providing a lifting point for said module.

30. A scaffolding module according to any preceding claim, further comprising a barrier structure extending across an in use outer face of said module.

31. A scaffolding assembly comprising:

5 a support structure comprising the frames of a plurality of scaffolding modules according to any one of claims 1 to 30 that are connected together with mounting surfaces of the respective modules in face to face relation; and one or more work platforms supported on the support structure at one or more levels of the scaffolding assembly.

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32. A scaffolding assembly according to claim 31, wherein the frames are interconnected with the respective mounting surfaces in intimate contact so that the contacting mounting regions act effectively as a unitary structure.

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33. A scaffolding assembly according to claim 31 or 32, further comprising at least one base module supporting the support structure formed from said plurality of scaffolding modules, wherein the at least one base module is adjustable in height and/or orientation.

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34. A scaffolding assembly according to claim 33, wherein the at least one base module further comprises of a plurality of height adjustable legs.

35. A scaffolding assembly according to claims 31 to 34, further comprising ties for securing the support structure to an adjacent structure.

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36. A scaffolding assembly according to any one of claims 31 to 35, further comprising at least one panel comprising a panel frame and at least one mounting region that allows the panel to be mounted to at least one of the mounting regions of the scaffolding module, wherein when so mounted to the scaffolding module, and wherein the panel is mounted on at least part of one face of at least one of the plurality of scaffolding modules to cover at least part of one face of the said support structure.

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37. A scaffolding assembly, according to any one of claims 31 to 36, wherein the modules are interconnected by mechanical fasteners that extend through the mounting surfaces arranged in face to face relation.

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38. A method of erecting scaffolding comprising:

- providing a plurality of modules as claimed in any one of claims 1 to 30;
- arranging the plurality of scaffolding modules in a predetermined manner; and
- securing the scaffolding modules together.

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39. A method according to claim 38, wherein the predetermined manner involves mounting one module relative to another module such that respective mounting surfaces of the modules are in face to face relation.

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40. A method of erecting scaffolding according to claim 39, further comprising arranging the plurality of scaffolding modules in a predetermined manner by hoisting and locating the modules with a crane.

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41. A method of erecting scaffolding according to any one of claims 38 to 40, wherein at least some of the scaffolding modules are provided pre-connected with at least two scaffolding modules connected together..

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42. A method of erecting scaffolding according to any one of claims 38 to 41 further comprising:

- providing at least one base module according to any one of claims 33 to 34;
- adjusting the height and/or orientation of the base module; and
- arranging the plurality of scaffolding modules on the at least one base module.

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43. A method of erecting scaffolding according to any one of claims 38 to 42, wherein each module has an in-use outer face, inner face, and two side faces, each face including a mounting region, wherein the method comprises locating

the side face of at least one module in an abutting relationship with an inner face of another module, and securing the abutting mounting regions together.

- 5 44. A method of erecting scaffolding according to any one of claims 38 to 43,
 wherein the predetermined arrangement includes one module spaced from
 another module, and the method further comprises:
 - providing at least one panel comprising a panel frame and at least one
 mounting region that allows the panel to be mounted to at least one of the
 mounting regions of the scaffolding module, ; and
10 - mounting the at least one panel to at least one mounting region on each of the
 spaced modules, wherein the panel interconnects the spaced modules.
- 15 45. A method of erecting scaffolding according to any one of claims 38 to 44,
 further comprising transporting the framed scaffolding modules to a site to be
 erected either as separate modules or in interconnected groups of modules.