CLAIMS

1. A ceiling panel for a pod room, the ceiling panel comprising:

one or more cover components movable between an open configuration and a closed configuration and wherein the one or more cover components are adapted to acoustically insulate the pod room in the closed configuration~~.~~ and wherein the

~~2. A ceiling panel for a pod room, the ceiling panel comprising:~~

one or more cover components ~~movable between an open configuration and a closed configuration and wherein the one or more cover components~~ in the open configuration produce at least a specified percentage open area~~.~~ and wherein the at least a specified open area is

~~3. The ceiling panel of claim 2, wherein the at least a specified percentage open area is at least a 65.0% open area, preferably at least a 67.0% open area, more preferably~~ at least a 70% open area ~~and most preferably about a 72% opening area.~~

~~4. A ceiling panel comprising the features of claim 1 and the features of claim 2 or claim 3.~~

~~5. The ceiling panel of any one of claims 1 to 4,~~ wherein the one or more cover components comprise a plurality of pivotable louvres which are fixed at intervals relative to one another, the louvres being pivotable between contacting positions in which the louvres contact one another to define the closed configuration, and non-contacting positions which define the open configuration~~.~~; and

an actuation mechanism configured to move the one or more cover components from the closed configuration to the open configuration in response to a trigger, wherein the trigger comprises a power cut to the actuation mechanism.

~~6.~~2. The ceiling panel of claim ~~5~~1, wherein the louvres further comprise flanges which contact and overlap one another to define the closed configuration.

~~7.~~3. The ceiling panel of claim ~~6~~2, wherein the flanges overlap by between 20mm and 60mm~~, and preferably by about 41mm~~.

~~8.~~4. The ceiling panel of claim ~~6~~2 or claim ~~7~~3, wherein the flanges of the louvres further comprise a nib to improve the seal.

~~9. The ceiling panel of any one of claims 5 to 8, wherein the louvres comprise any one or more of fire-rated board, foam or fabric.~~

~~10.~~5. The ceiling panel of any preceding claim, wherein the cover components comprise a composite of a higher density material and a lower density material.

~~11. The ceiling panel of claim 10, wherein the higher density material forms a core and the lower density material a cladding around at least a portion of the higher density material.~~

~~12. The ceiling panel of claim 11 wherein the core is substantially planar.~~

~~13. The ceiling panel of claim 12 wherein the cladding extends around the substantially planar core.~~

~~14. The ceiling panel of claim 13 wherein the cladding further comprises a flange.~~

~~15.~~6. The ceiling panel of claim ~~14~~2 wherein the flange~~s~~ further comprise~~s~~ a nib which protrudes in a direction substantially perpendicular to the flange.

~~16.~~7. The ceiling panel of claim ~~15~~6 wherein the flanges and the nibs of two adjacent louvres define an insulating cavity in the closed configuration.

~~17.~~8. The ceiling panel of any one of claims ~~10 to 16~~5 to 7, wherein the higher density material has a density of at least 500 kg/m^3~~, and preferably at least 700 kg/m^3~~.

~~18.~~9. The ceiling panel of any one of claims ~~10 to 17~~5 to 8, wherein at least one of the higher density material and the lower density material comprises a sound insulating material.

~~19.~~10. The ceiling panel of any one of claims ~~10 to 18~~5 to 9, wherein at least one of the higher density material and the lower density material comprises a sound absorbent material.

~~20. The ceiling panel of claim 19, wherein the absorbent material has a fractional absorption coefficient of at least 0.2 and preferably, at least 0.6.~~

~~21. The ceiling panel of claim 19 or claim 20, wherein the absorbent material has a thickness of between 5mm and 25mm, and preferably about 15mm.~~

~~22. The ceiling panel of any one of claims 5 to 21, wherein the louvres have a louvre width of between 20mm and 500mm, preferably between 200mm and 300mm and more preferably about 248mm.~~

~~23. The ceiling panel of any one of claims 5 to 22, wherein the louvres have a louvre pitch of between 30mm and 500mm, preferably between 150 and 250mm and more preferably about 207.5mm.~~

~~24.~~11. The ceiling panel of any one of claims ~~5 to 23~~1 to 10, wherein the louvres have a thickness of between 6mm and 70mm~~, and preferably about 40mm~~.

12. The ceiling panel of any one of claims 1 to 11, wherein the ceiling panel further comprises a frame and wherein the louvres are configured to overlap the edges of the frame to generate an acoustic seal.

13. The ceiling panel of claim 3, wherein the flanges overlap by about 41mm.

14. The ceiling panel of claim 8, wherein the density is at least 700kg/m^3.

15. The ceiling panel of claim 10, wherein the sound absorbent material has a fractional absorption coefficient of at least 0.2.

16. The ceiling panel of claim 15, wherein the fractional absorption coefficient is at least 0.6.

17. The ceiling panel of claim 11, wherein the thickness is about 40mm.

~~25. A ceiling panel for a pod room, the ceiling panel comprising:~~

~~one or more cover components movable between an open configuration and a closed configuration; and~~

~~an actuation mechanism configured to move the one or more cover components from the closed configuration to the open configuration in response to a trigger.~~

~~26. The ceiling panel of claim 25, wherein the actuation mechanism is configured to bias one or more of the cover components towards the open configuration, and further configured in a first state to hold the one or more cover components in the closed configuration against the bias, and in a second state to allow the one or more cover components to move towards the~~

open configuration under the bias, the actuation mechanism being configured to move from the first state to the second state in response to the trigger.

27. The ceiling panel of claim 26, wherein the first state is a powered state and the second state is an unpowered state.

28. The ceiling panel of any one of claims 25 to 27, wherein the trigger comprises a power cut to the actuation mechanism.

29. The ceiling panel of claim 26, wherein the actuation mechanism comprises a spring release configured to bias the one or more cover components towards the open configuration.

30. The ceiling panel of claim 26, wherein the actuation mechanism comprises at least one counterweight configured to bias the one or more cover components towards the open configuration.

31. The ceiling panel of claim 26, wherein the actuation mechanism comprises an electromechanical actuator configured in a powered state to hold the one or more cover components in the closed configuration against the bias, and in an unpowered state to allow the one or more cover components to move towards the open configuration under the bias.

32. The ceiling panel of claim 26, wherein the actuation mechanism comprises a fusible link configured in an intact state to hold the one or more cover components in the closed configuration against the bias, and in a fused state to allow the one or more cover components to move towards the open configuration under the bias, wherein the fusible link is configured to fuse upon reaching a predetermined threshold temperature.

33. The ceiling panel of any one of claims 1 to 4 or claims 25 to 32, wherein the one or more cover components are interconnected to form a concertina, the concertina being movable between a collapsed position which defines the open configuration and an extended position which defines the closed configuration.

34. The ceiling panel of any one of claims 1 to 4 or claims 25 to 32, wherein the one or more cover components form a tambour cover which is movable between a stowed position which defines the open configuration and an extended position which defines the closed configuration.

~~35. The ceiling panel of any one of claims 25 to 32, wherein the one or more cover components comprise a plurality of pivotable louvres, the louvres being pivotable between contacting positions in which the louvres overlay one another to define the closed configuration, and non-contacting positions which define the open configuration.~~

~~36. The ceiling panel of any one of claims 5 to 24 or of claim 35, further comprising a connection element pivotably connected to each louvre to effect synchronous movement of the louvres.~~

~~37. A ceiling panel according to any one of claims 1 to 24 and any one of claims 25 to 36.~~

~~38. A ceiling system comprising one or more ceiling panels according to any preceding claim.~~

~~39. The ceiling system of claim 38, further comprising a detection unit configured to provide the trigger to the actuation mechanism in response to the detection of a predetermined condition.~~

~~40. The ceiling system of claim 39, wherein the detection unit comprises a smoke detector configured to respond to the detection of smoke.~~

~~41. The ceiling system of claim 39, wherein the detection unit comprises a movement detector configured to respond to the detection of an absence of movement in the pod room.~~

~~42. The ceiling system of claim 39, wherein the detection unit comprises a heat detector configured to respond to the detection of a temperature within the pod room reaching a predetermined threshold.~~

~~43. The ceiling system of claim 42, wherein the heat detector comprises a fusible link configured to fuse and thereby cut power to the said actuation mechanism when the temperature within the pod room reaches the predetermined threshold.~~

~~44.~~18. A pod room comprising a ceiling panel ~~or ceiling system~~ according to any preceding claim.