

1. Summary

Bow realizes fast and flexible working environments. The company provides the building blocks of which you can make the layout of your office spaces completely flexible. From call cell to office unit or meeting unit.

The assignment started at BOW, the venture was still in the start-up phase. At that time, they were busy with the transition from start-up to scale-up. To get the company to the scale-up phase, the product that BOW offers needed to change.

The newly developed box needs to meet the additional requirements listed below.

- Climate of the box should have a CO₂ value under the 1000 PPM. With an optimum of 800 PPM.
- The acoustics of the box; needs to have a noise reduction of 33 decibels.
- Mountability of the box; mainly plug & play when there are no tools required. The build-up time should be below 60 minutes with an optimum of 30 minutes.
- Aesthetic aspect should make the box looks timeless and fits in most office buildings.

The product meets all the requirements needed to go to the next phase from start-up to scale-up.

In this essay, I will describe the approach taken to develop the box further. You can find in this essay the decisions taken, including rationales and substantiations.

The requirements are drawn up in a table that provides an overview of whether or not they have been met. The meaning of the satisfies are explained below. The last row advice follow up has been given about the requirements.

Underperforming – The requirement is not met.

Moderate – The requirement is met.

Exceed – The requirement is met and advice has been given for next steps.

Requirements	Satisfies?	Advise follow up
Climate	Moderate	<ul style="list-style-type: none">• Measure CO₂ in the future boxes, so the Bow 2, 4, 9, 12.
Acoustics	Exceed	<ul style="list-style-type: none">• The place where the most sound loss is from the roof where the light is placed. To improve the noise reduction is to change light that sits deeper in the roof hole such as the pir or is made of a different material that conducts less sound.• There is also a possibility to look at dampers behind the lights and pir sensors.
Mountability - Plug & Play	Exceed	<ul style="list-style-type: none">• All parts of the box are plug & play. To make it easier to assemble the box is to look at the hinge.
Mountability – Assembly time	Moderate	<ul style="list-style-type: none">• The assembly time of the box is around 30 minutes but this is not precisely timed.

Aesthetic aspect	Moderate	<ul style="list-style-type: none">• The box is modular and has a timeless design because it is available in all colours it fits in most of the business buildings. ABN says 'the box looks timeless.'
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