

[illegible]

Component	Solution1	Solution2	Solution3	Solution4	Solution5	Comment
Frame	Minimal C-Frame	C-Frame	Big L-Frame	AA-Frame	is Frame	
Frame Material	Steel	Aluminium	Alu-Extrusion-Profile			
Pressure-Tube	Precision Pipe	Alu Pipe	Water Pipe	Chopper Pipe	Plain Steel Pipe	
Hopper-Material	Plastic	metal sheet	Wood			
Tube-Insulation	None	Pipe-Insulation	Grassmat	No Hopper at all		
Heating	Heat-Band	Induction	Heat carriage			
Temperature Control	PID	PI	2-Point			
Sensor-Type	PT-100	R-Thermist.	Diode (PTC)	Infrared		
Heating Temp. Controller	Platen both sides	Cage Platen	Cage Platen + Frame			
TC-Heating Material	meat sheet this	meat sheet thick	plastic	wood		
Heating-Tube	None	square design	round design	bevels design		
Power Transmission	Manuall Lever	Toothed Rack	Piston Rod			
rod system	Linear Rod	Alu Rod	Steel Rod	Threaded Rod		
Piston-Plug	none	Combo with rod				
Piston-Plug Material	brass	chopper	Alu	Steel		
Pipe closure / connector	plug, inner thread	screw cap				
Electronics Assembly	separate Box	integrated in Frame	integrated in housing			
Finish	none	painted by brush	painted by spray			
Orientation of Hopper	sideways	from above				
Mounting	Wall & Benchtop	Benchtop only	Wall only	Benchtop + Wall optional		
Ventilation	Fan + HEPA Filter	Fan only	none			
Hopper cover	with cover	without cover				



→ A-Sample / First Prototype



Lesson Learned

Kanban Board B-Sample

to do's	in progress	done
Task A		Task C
Task B		Task D
		Task E
		Task F
		Task G
		Task H
		Task I
		Task J

B-sample



Lesson Learned

Kanban Board C-Sample

Waiting (1)	In Progress (1)	Done (5)
Sauer & Jid	Kleinbauer	Kleinbauer
		Kleinbauer
		Kleinbauer
		Kleinbauer
		Kleinbauer

Lesson learned



Lesson Learned A-Sample						
L-Frame Taken a Lot of Material and Working time	Plasma Cutter takes longer time to cut than a torch cutting takes a lot more material than a plasma cutter	Welding equipment connected to grounding leads to the same thing. Electrical Connection	The Temperature Sensor needs to be placed further from the pipe for accurate. Maybe not working.	Try to replace the expensive pressure sensor with a threaded rod-bushings piece	Redesign for the lever arm for better fitting	Screeholes for the housing

Lesson Learned B-Sample					
<p>"Why not" was only one thing I considered when I was asked to give a presentation on the same topic as a previous presentation. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>To better see how the same could be the benefit of a recent learning point.</p>	<p>Change the word "Why not" to "Why not" to avoid any confusion. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>Change the word "Why not" to "Why not" to avoid any confusion. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>Make Comparison Work. Make sure you have a clear comparison. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>Make Comparison Work. Make sure you have a clear comparison. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>Let's write a concrete for the 100. Concrete 1. Concrete 2. Concrete 3. Concrete 4. Concrete 5. Concrete 6. Concrete 7. Concrete 8. Concrete 9. Concrete 10. Concrete 11. Concrete 12. Concrete 13. Concrete 14. Concrete 15. Concrete 16. Concrete 17. Concrete 18. Concrete 19. Concrete 20. Concrete 21. Concrete 22. Concrete 23. Concrete 24. Concrete 25. Concrete 26. Concrete 27. Concrete 28. Concrete 29. Concrete 30. Concrete 31. Concrete 32. Concrete 33. Concrete 34. Concrete 35. Concrete 36. Concrete 37. Concrete 38. Concrete 39. Concrete 40. Concrete 41. Concrete 42. Concrete 43. Concrete 44. Concrete 45. Concrete 46. Concrete 47. Concrete 48. Concrete 49. Concrete 50. Concrete 51. Concrete 52. Concrete 53. Concrete 54. Concrete 55. Concrete 56. Concrete 57. Concrete 58. Concrete 59. Concrete 60. Concrete 61. Concrete 62. Concrete 63. Concrete 64. Concrete 65. Concrete 66. Concrete 67. Concrete 68. Concrete 69. Concrete 70. Concrete 71. Concrete 72. Concrete 73. Concrete 74. Concrete 75. Concrete 76. Concrete 77. Concrete 78. Concrete 79. Concrete 80. Concrete 81. Concrete 82. Concrete 83. Concrete 84. Concrete 85. Concrete 86. Concrete 87. Concrete 88. Concrete 89. Concrete 90. Concrete 91. Concrete 92. Concrete 93. Concrete 94. Concrete 95. Concrete 96. Concrete 97. Concrete 98. Concrete 99. Concrete 100.</p>	<p>upholding sufficient</p>	<p>3 More concrete also works very well. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>
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<p>The word and the new ones should be used. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>The word and the new ones should be used. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>Exchange the frame-bracket for the new-terms to smaller size brackets. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>Exchange the frame-bracket for the new-terms to smaller size brackets. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>Exchange the frame-bracket for the new-terms to smaller size brackets. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>Exchange the frame-bracket for the new-terms to smaller size brackets. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>For A & B Sample. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>For A & B Sample. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>I have a higher level of quality. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>I have a higher level of quality. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>	<p>A better look of the presentation. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p> <p>A better look of the presentation. I was told that I had the same topic as a previous presentation. I was told that I had the same topic as a previous presentation.</p>

Lesson Learned C-Case

The diagram illustrates a building cross-section with the following components and labels:

- Top Left:** Cold bridge of the roof is insulated to prevent heat loss. The insulation is placed above the roof structure.
- Top Center:** Exhaust air is drawn out of the building through the roof structure.
- Top Right:** High energy consumption is reduced by using energy efficient lighting and appliances.
- Middle Left:** A ventilation system with a heat exchanger is used to pre-heat the incoming air.
- Middle Center:** A ventilation system with a heat exchanger is used to pre-heat the incoming air.
- Middle Right:** The ventilation system is designed to be a part of the building's energy system.
- Bottom Left:** The upper cross-section can be used to implement a small ventilation system with heat flow to avoid losses.
- Bottom Center:** For a thermal model, a temperature limiter is needed.
- Bottom Right:** For a thermal model, a ventilation limiter is needed.
- Far Right:** For a thermal model, the building's energy system is used to pre-heat the incoming air.

cut three ventilation slots on each side

the controller

with cooling of the

open the middle

the upper cross-section can be used to implement a small ventilation system with heat flow to avoid losses

For a thermal model, a temperature limiter is needed

For a thermal model, a ventilation limiter is needed

For a thermal model, the building's energy system is used to pre-heat the incoming air