**Note:** This document will be stored in the project's GitHub repository. Template

|  |  |  |
| --- | --- | --- |
| **Design Stage** | **BASIC SPECIFICATIONS** | **Concept brief link:** |
| [This section collects the initial design specifications. This header is not static and can be modified as the project progresses.  Functional and Non-Functional requirements]  **Note:** This section can be completed directly or via a link. |
| **CONCEPTUAL DESIGN DESCRIPTION** | [Conceptual explanation of the practical design intended for the digital prototype. May be accompanied by a sketch or whatever is considered necessary.] |
| **CRITICAL OPERATION POINTS** | Critical Operating Points (COP): Parts requiring theoretical study due to predicted criticality, identified during the design phase.   |  |  |  | | --- | --- | --- | | **Item** | **Critical Operation Point description** | **Document that proves theoretically the concept** | | **1** | IP | …… | | **2** | Interferences | Solid Works Analysis/ Fast prototyping | | **3** | EMC | EMC Simulation | | **4** | Correct airflow | Flow Simulation | | **…..** | ….. | …… | |
| **TARGET COST** | **Target Cost = .....€**  Include a link to the cost analysis. |
| **DFMEA (in case that is necessary)** | [During the Design Review, the design is presented to the DFMEA team, and the DFMEA is carried out according to SOP.]  Include DFMEA Reference. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Testing Stage** | **DESIGN VERIFICATION PLAN (DVP)** | [Throughout the design process, PCFs (Critical Function Points) have been defined; the theoretical studies should be verified in the prototype and listed in the DVP.  During the DFMEA, critical design points have been detected that should be included in the DVP and analyzed in the prototype, too]   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Type of Test | Item | Description | Report Reference | Result | | Dimensional Verification | 1 | Parts’ Geometric Inspection Analysis |  | OK/No OK | | Life Test | 2 | Life Test Analysis |  |  | | Specifications Verification | 3 | Verification Test Template of specifications |  |  | | Vibration Tests | 4 | Vibration Analysis Template |  |  | | Packaging Tests | 5 | Packaging Analysis Template |  |  | | EMCs | 6 |  |  |  | | Efficaccy Tests | 7 |  |  |  | | Stability Tests | 8 |  |  |  | |
| **PROTOTYPE ASSEMBLY INCIDENTS** | [List of all critical points observed during assembly and the actions to be taken to solve them.]   |  |  |  | | --- | --- | --- | | **Item** | **Issue description** | **Solution Description** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |

Product Deliverables

|  |  |  |
| --- | --- | --- |
| **Deliverables** | **CAD FILES**  **FORMULA** | Links to the final version of the assembly 3D and 2D, or formula composition.  We need to include the aesthetic solution. |
| **Cost** | Link to the final Cost template. |
| BoM | Link to the final BoM of the device or formulation. |
| **DVP** | We should have the link to the test executed during de Design Verification Plan. |

|  |  |
| --- | --- |
| **DESIGN ACCEPTANCE** | |
| YES | Iterate |
|  |