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| No.ARTICLE | QUANTITÉ | DESCRIPTION                                   | LONGUEUR        | Cross-section | MEP file                                         | PDF file                                        |
|------------|----------|-----------------------------------------------|-----------------|---------------|--------------------------------------------------|-------------------------------------------------|
| 1          | 1        | Main frame                                    | 2x580 + 2x 1560 | 80x60x2       | MM-017_MainFrame.SLDDRW                          | MM-017-G_MainFrame.pdf                          |
| 2          | 1        | Main frame rear extension (for fork bearings) | 300             | 80x60x2       | MM-019_MainFrameRearExtension.SLDDRW             | MM-019-D_MainFrameRearExtension.pdf             |
| 3          | 1        | Lateral front right body bracket tube         | 245             | 40x40x1.5     | MM-009_LateralFrontRight_BodyBracketTube.SLDDRW  | MM-009-C_LateralFrontRight_BodyBracketTube.pdf  |
| 4          | 1        | Lateral body bracket left corner piece        | 1005            | 40x40x2 (L)   | MM-010_LateralLeft_BodyBracketCorner.SLDDRW      | MM-010-B_LateralLeft_BodyBracketCorner.pdf      |
| 5          | 1        | Lateral body bracket right corner piece       | 1005            | 40x40x2 (L)   | MM-013_LateralRight_BodyBracketCorner.SLDDRW     | MM-013-B_LateralRight_BodyBracketCorner.pdf     |
| 6          | 2        | Front body bracket tubes                      | 44              | 40x40x1.5     | MM-008_Front_BodyBracketTube.SLDDRW              | MM-008-A_Front_BodyBracketTube.pdf              |
| 7          | 1        | Front body bracket corner piece               | 250             | 40x40x2 (L)   | MM-007_FrontBodyBracketCorner.SLDDRW             | MM-007-A_FrontBodyBracketCorner.pdf             |
| 8          | 4        | Front suspension tower pillar                 | 453             | 40x40x1.5     | MM-014_SuspTower_Pillar.SLDDRW                   | MM-014-E_SuspTower_Pillar.pdf                   |
| 9          | 1        | Suspension towers rear lateral brace          | 670             | 25x25x2       | MM-030_SuspTower_RearLatBrace.SLDDRW             | MM-030-D_SuspTower_RearLatBrace.pdf             |
| 10         | 1        | Suspension tower front lateral brace          | 670             | 25x25x2       | MM-029_SuspTower_FrontLatBrace.SLDDRW            | MM-029-E_SuspTower_FrontLatBrace.pdf            |
| 11         | 2        | UI tower pillars                              | 549             | 25x25x2       | MM-035_UITower_Pillar.SLDDRW                     | MM-035-C_UITower_Pillar.pdf                     |
| 12         | 1        | UI tower horizontal segment                   | 775             | 25x25x2       | MM-034_UITower_Horizontal.SLDDRW                 | MM-034-C_UITower_Horizontal.pdf                 |
| 13         | 1        | UI tower dashboard support                    | 725 + 2x170     | 25x25x2       | MM-033_UITower_DashboardSupport.SLDDRW           | MM-033-C_UITower_DashboardSupport.pdf           |
| 14         | 2        | UI tower lateral frame body interface plate   | 57.5            | 2x25 (sheet)  | MM-037_UITower_BodyLateralInterface.SLDDRW       | MM-037-A_UITower_BodyLateralInterface.pdf       |
| 15         | 2        | Rear suspension tower pillar                  | 376             | 40x40x1.5     | MM-021_RearSuspTower_Pillar.SLDDRW               | MM-021-D_RearSuspTower_Pillar.pdf               |
| 16         | 2        | UI-Suspension towers link                     | 138             | 25x25x2       | MM-031_UI-SuspTowerLink.SLDDRW                   | MM-031-D_UI-SuspTowerLink.pdf                   |
| 17         | 2        | Main frame lateral brace                      | 570             | 2 (sheet)     | MM-020_MainFrame_LateralBrace.SLDDRW             | MM-020-D_MainFrame_LateralBrace.pdf             |
| 18         | 1        | Lateral rear right body bracket tube          | 81              | 40x40x1.5     | MM-012_LateralRearRight_BodyBracketTube.SLDDRW   | MM-012-C_LateralRearRight_BodyBracketTube.pdf   |
| 19         | 2        | Suspension tower right top                    | 235             | 80x60x2       | MM-016_FrontSuspTower_Top.SLDDRW                 | MM-016-C_FrontSuspTower_Top.pdf                 |
| 20         | 1        | Lateral rear left body bracket tube           | 81              | 40x40x1.5     | MM-011_LateralRearLeft_BodyBracketTube.SLDDRW    | MM-011-B_LateralRearLeft_BodyBracketTube.pdf    |
| 21         | 1        | Steering rack support                         | 610             | 25x25x2       | MM-028_SteeringRackSupport.SLDDRW                | MM-028-D_SteeringRackSupport.pdf                |
| 22         | 1        | Lateral Front left body bracket tube          | 245             | 40x40x1.5     | MM-009.1_LateralFrontLeft_BodyBracketTube.SLDDRW | MM-009.1-A_LateralFrontLeft_BodyBracketTube.pdf |

Tolérances générales ISO 2768-  
Pièces moulées ISO 8062-CT  
Symboles de soudure ISO 2553  
Procédé de soudage  
Tol. gén de soudure ISO 13920-  
Pression d'essai

Finition:

Rayons non cotés R  
Chanfreiné

Revision: F

HEIG-VD

COMATEC  
Institut de Conception  
mécanique et  
Technologies des  
matériaux

Nom

Signature

Date

Dessiné

Samson Deriaz

d24.08.2026

Contrôle

Conf. normes

Bon pour exéc.

Dénomination:

Vehicle Frame

Matériau : E235

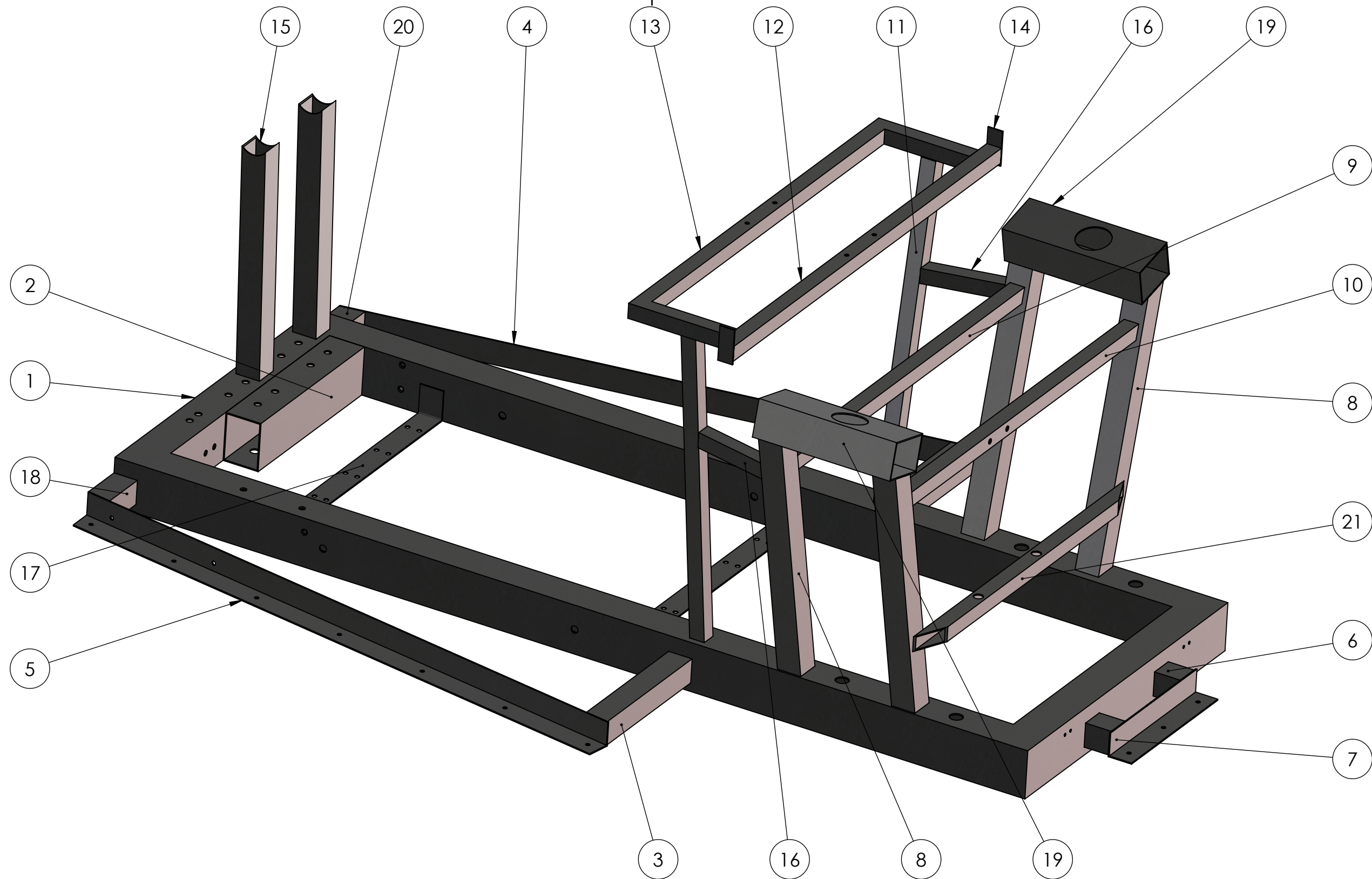
Nom du fichier (Dessin)  
MA2-001\_VehicleFrame

A3

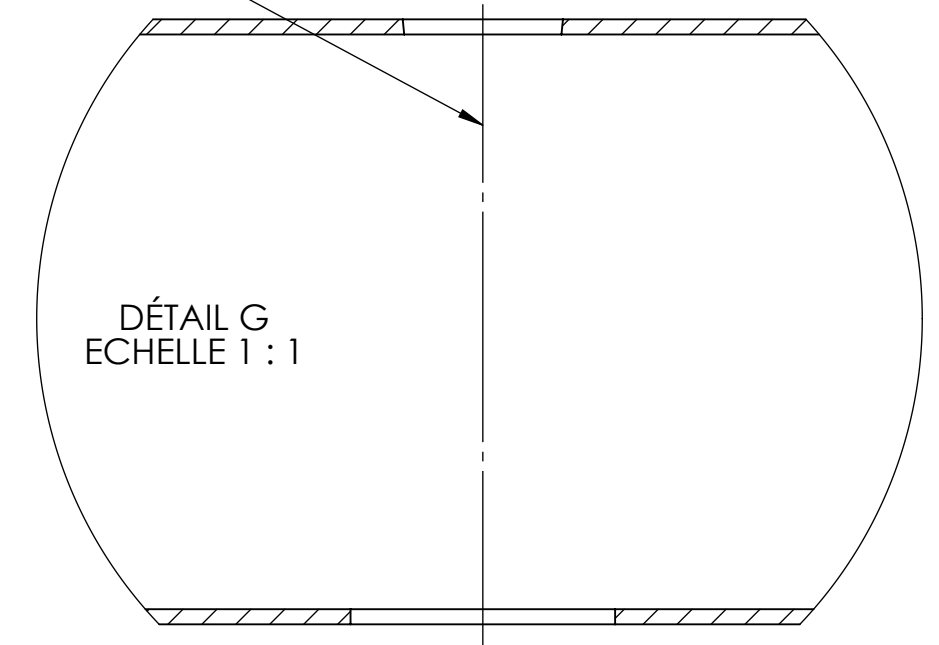
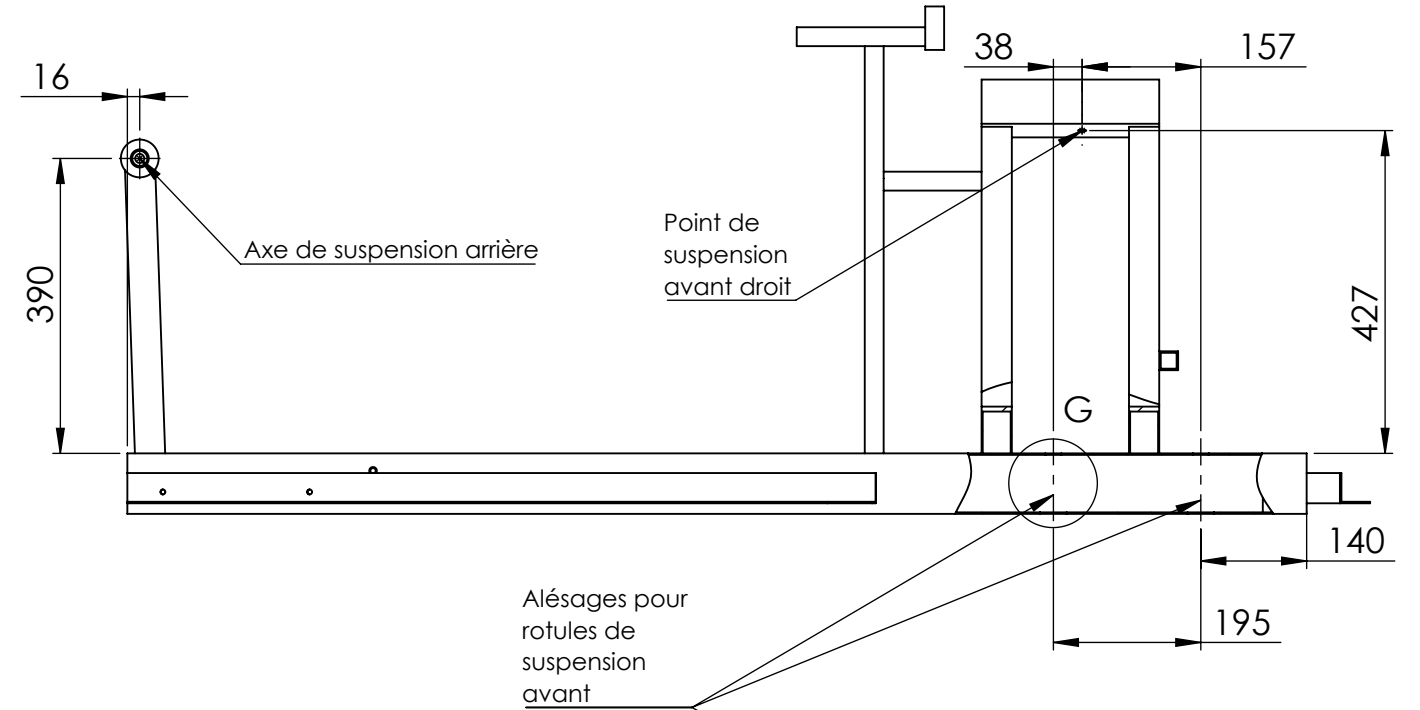
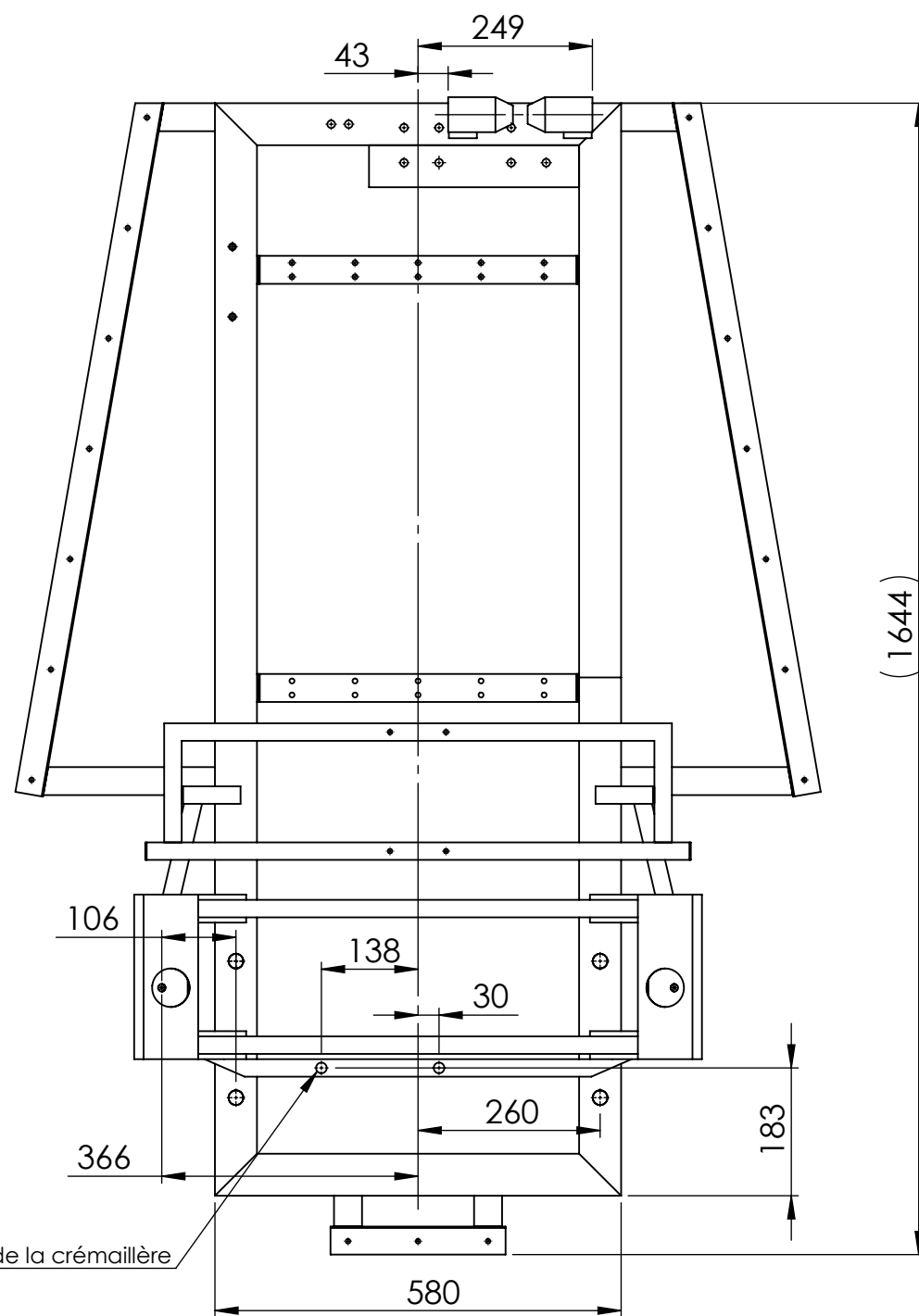
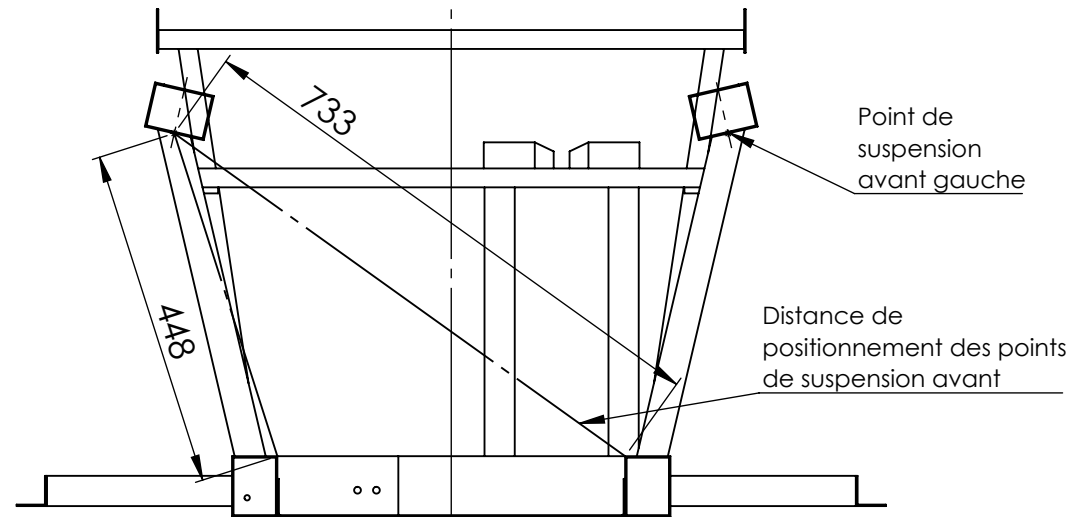
Masse: 36.56

Echelle:1:20 NON

Feuille 1 de 4



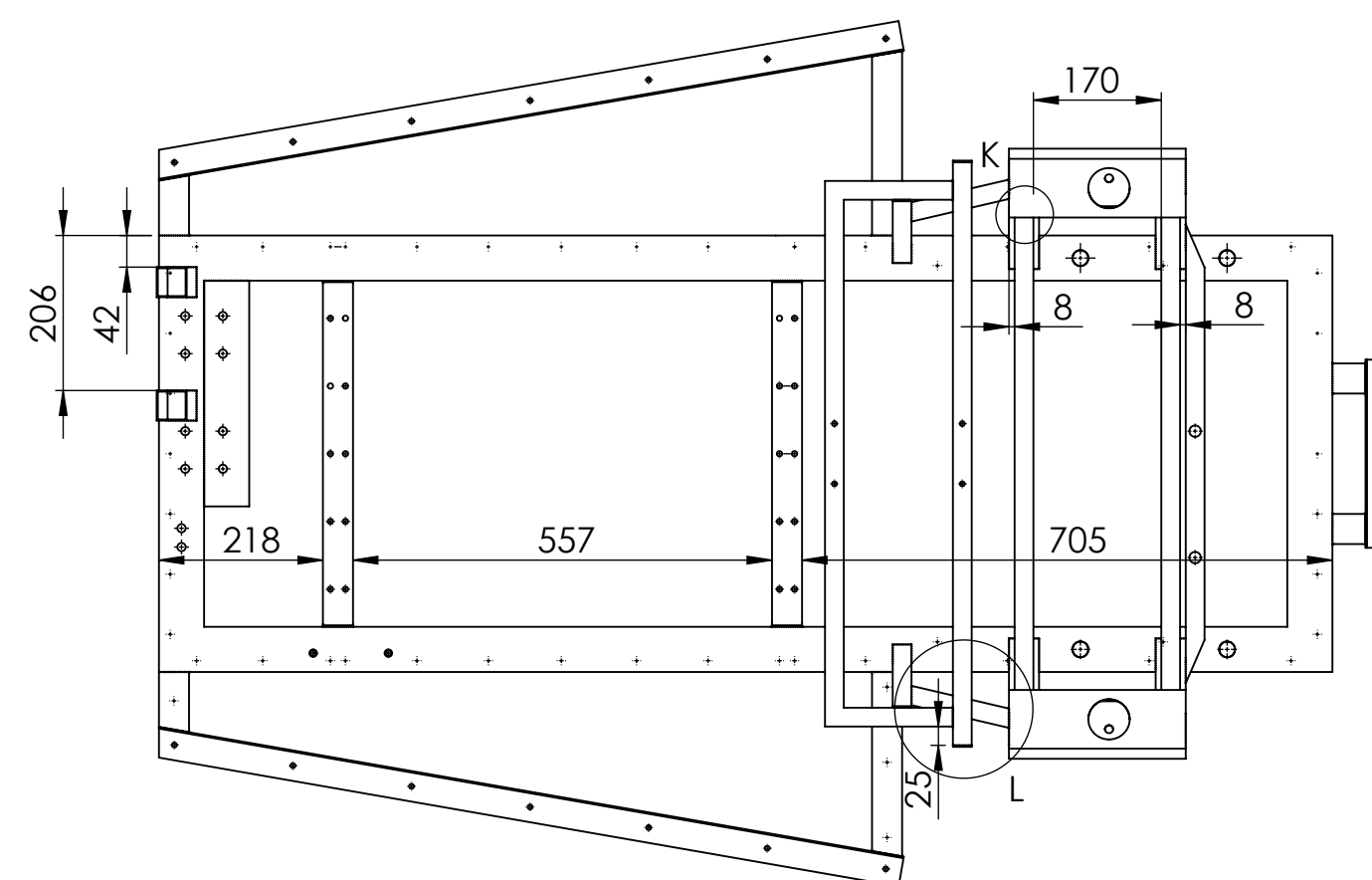
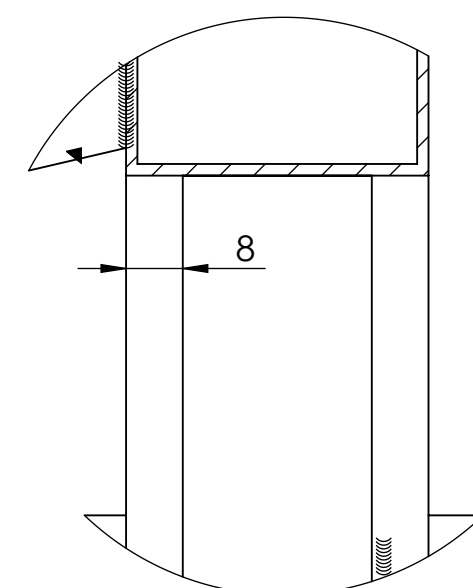
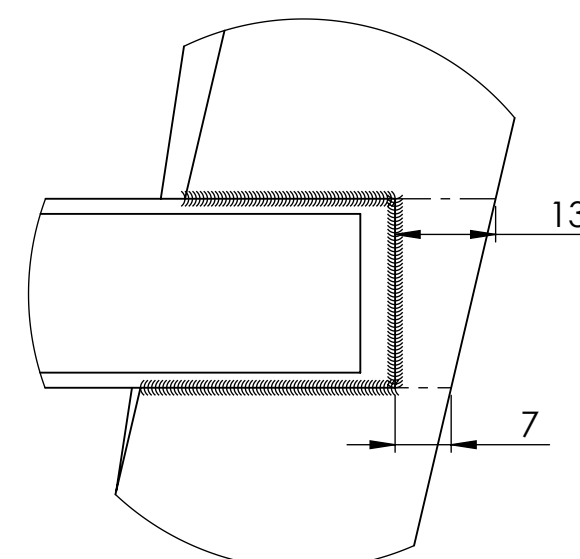
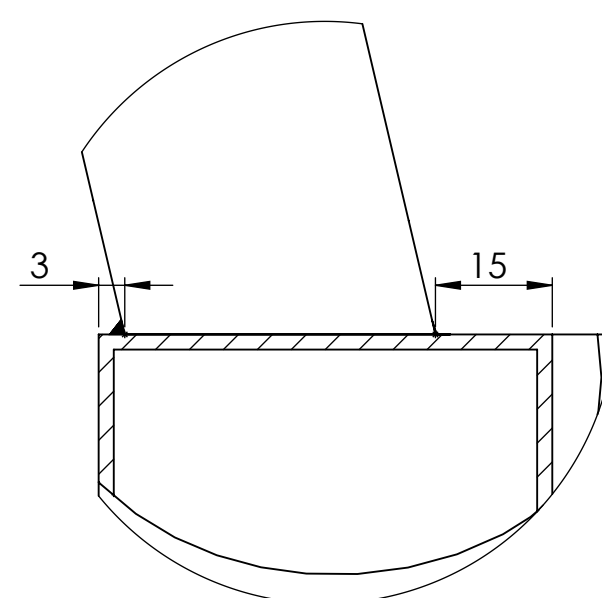
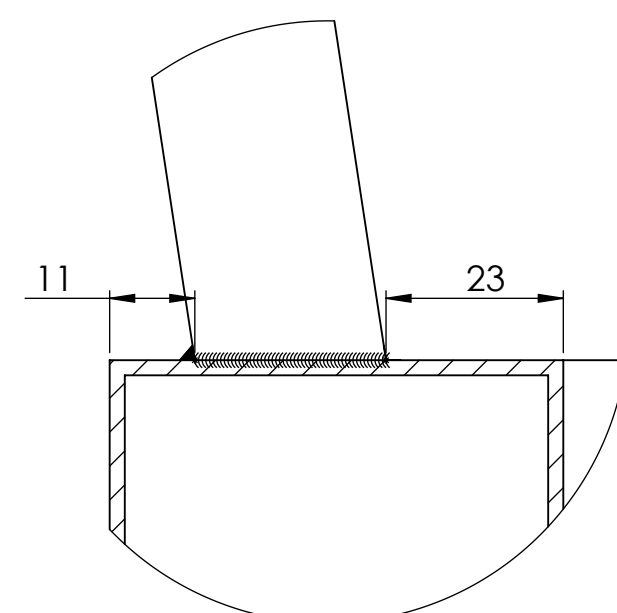
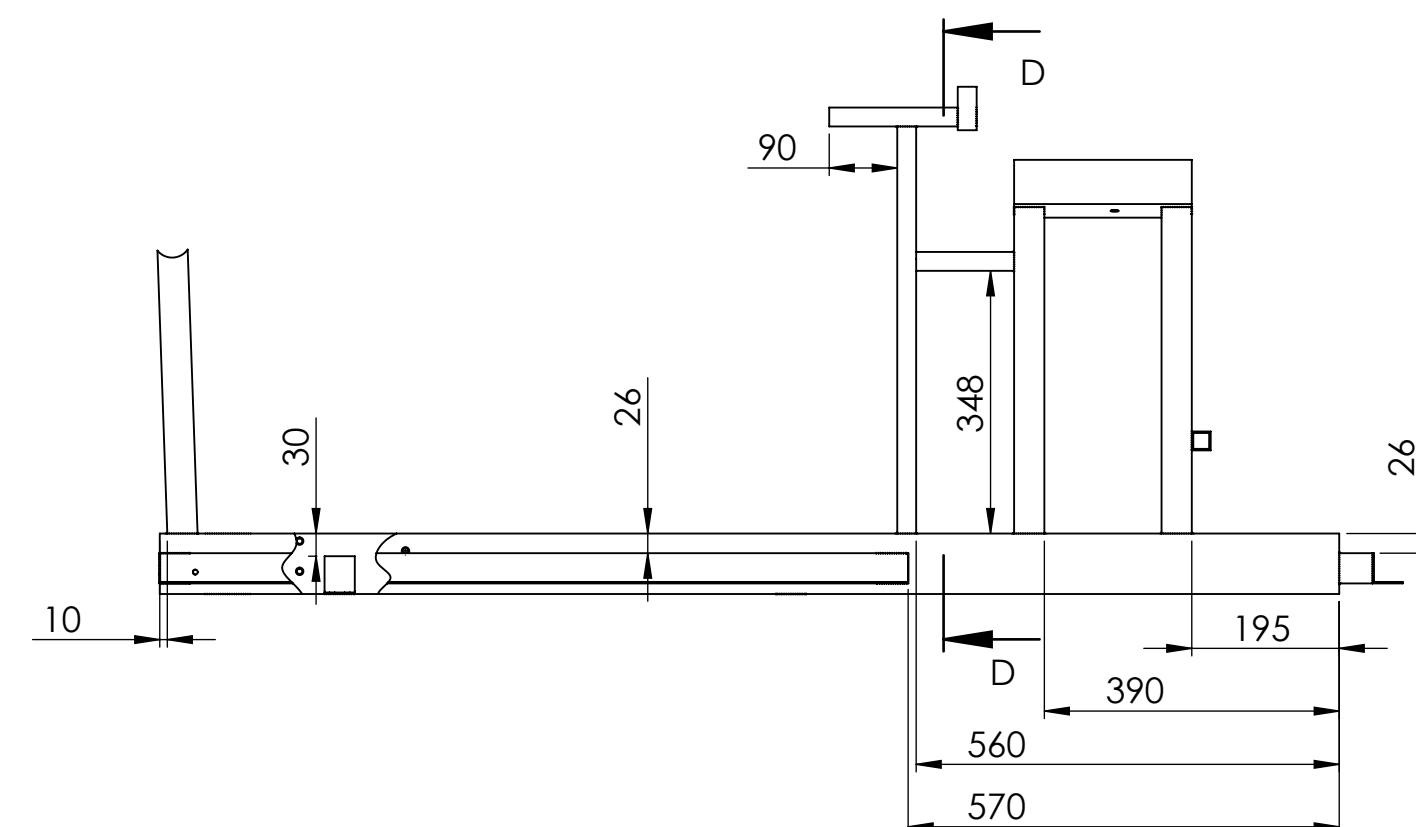
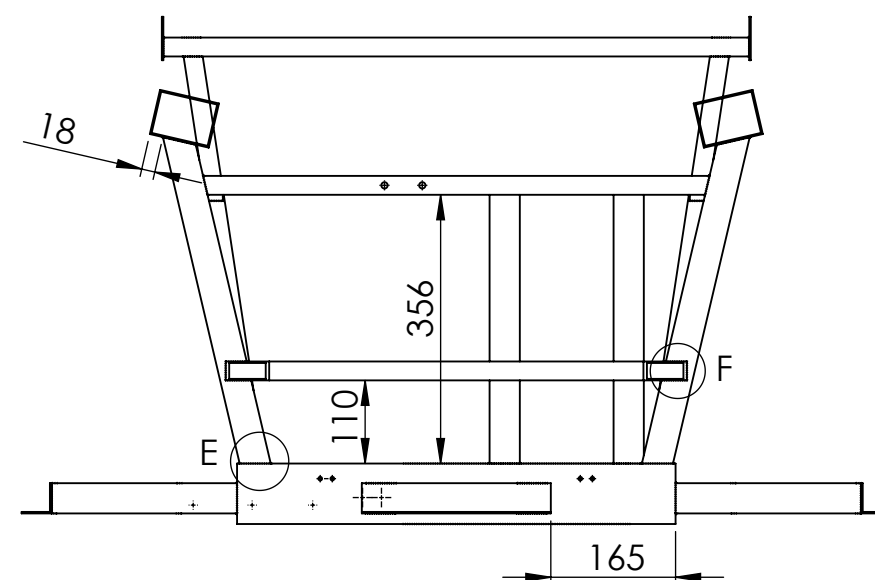
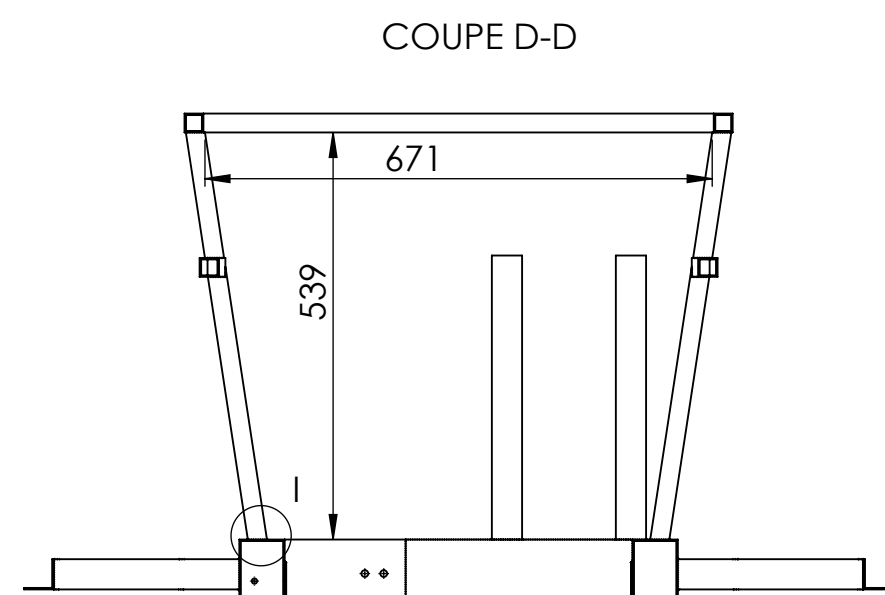
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|-------------|-----------------|--|-------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Tolérances générales ISO 2768-<br>Pièces moulées ISO 8062-CT<br>Symboles de soudure ISO 2553<br>Procédé de soudage<br>Tol. gén. de soudure ISO 13920-<br>Pression d'essai |               |           |             | Finition:       |  | Rayons non cotés R<br>Chanfreiné                |  | Revision: F                                                                                                                                                                                                                                                                                     |                                                         |
|                                                                                                                                                                           |               |           |             |                 |  |                                                 |  | <div><div>HEIG</div><div>VD</div></div> <div>COMATEC<br/>Institut de Conception<br/>mécanique et<br/>Technologies des<br/>matériaux</div> <div><div><div>CC</div><div>BY</div><div>SA</div></div><div><div><div><div></div></div><div><div></div></div><div><div></div></div></div></div></div> |                                                         |
|                                                                                                                                                                           | Nom           | Signature | Date        |                 |  | Dénomination:                                   |  |                                                                                                                                                                                                                                                                                                 |                                                         |
| Dessiné                                                                                                                                                                   | Samson Deriaz |           | d24.08.2026 |                 |  | Vehicle Frame                                   |  |                                                                                                                                                                                                                                                                                                 |                                                         |
| Contrôlé                                                                                                                                                                  |               |           |             |                 |  |                                                 |  |                                                                                                                                                                                                                                                                                                 |                                                         |
| Conf. normes                                                                                                                                                              |               |           |             |                 |  |                                                 |  |                                                                                                                                                                                                                                                                                                 |                                                         |
| Bon pour exéc.                                                                                                                                                            |               |           |             |                 |  |                                                 |  |                                                                                                                                                                                                                                                                                                 |                                                         |
|                                                                                                                                                                           |               |           |             | Matériau : E235 |  | Nom du fichier (Dessin)<br>MA2-001_VehicleFrame |  |                                                                                                                                                                                                                                                                                                 | <div><div><div></div></div><div><div></div></div></div> |
|                                                                                                                                                                           |               |           |             |                 |  |                                                 |  |                                                                                                                                                                                                                                                                                                 |                                                         |
|                                                                                                                                                                           |               |           |             |                 |  |                                                 |  |                                                                                                                                                                                                                                                                                                 |                                                         |
|                                                                                                                                                                           |               |           |             | Masse: 36.56    |  | Echelle:1:6 NON                                 |  |                                                                                                                                                                                                                                                                                                 | Feuille 2 de 4                                          |



### Cotes fonctionnelles :

- Position des alésages pour rotules de suspension avant par rapport au châssis
- Position des points de suspension avant par rapport aux alésages de rotule
- Position de l'axe de suspension arrière par rapport au châssis
- Position des perçages de fixation de la crémaillère par rapport au châssis

|                                                                                                                                                                           |               |           |  |                                                                                                                                |                 |                                                 |  |             |                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|--|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------|--|-------------|-----------------------------------|
| Tolérances générales ISO 2768-<br>Pièces moulées ISO 8062-CT<br>Symboles de soudure ISO 2553<br>Procédé de soudage<br>Tol. gén. de soudure ISO 13920-<br>Pression d'essai |               |           |  | Finition:                                                                                                                      |                 | Rayons non cotés R<br>Chanfreiné                |  | Revision: F |                                   |
|                                                                                                                                                                           |               |           |  | <div>HEIG<sup>VD</sup></div> <div>COMATEC<br/>Institut de Conception<br/>mécanique et<br/>Technologies des<br/>matériaux</div> |                 |                                                 |  |             |                                   |
|                                                                                                                                                                           | Nom           | Signature |  | Date                                                                                                                           |                 | Dénomination:                                   |  |             |                                   |
| Dessiné                                                                                                                                                                   | Samson Deriaz |           |  | d24.08.2026                                                                                                                    |                 | Vehicle Frame                                   |  |             |                                   |
| Contrôlé                                                                                                                                                                  |               |           |  |                                                                                                                                |                 |                                                 |  |             |                                   |
| Conf. normes                                                                                                                                                              |               |           |  |                                                                                                                                |                 |                                                 |  |             |                                   |
| Bon pour exéc.                                                                                                                                                            |               |           |  |                                                                                                                                |                 |                                                 |  |             |                                   |
|                                                                                                                                                                           |               |           |  |                                                                                                                                | Matériau : E235 | Nom du fichier (Dessin)<br>MA2-001_VehicleFrame |  |             | <div><div></div><div></div></div> |
|                                                                                                                                                                           |               |           |  |                                                                                                                                |                 |                                                 |  |             |                                   |
|                                                                                                                                                                           |               |           |  |                                                                                                                                |                 |                                                 |  |             |                                   |
|                                                                                                                                                                           |               |           |  |                                                                                                                                |                 |                                                 |  |             | A3                                |
|                                                                                                                                                                           |               |           |  |                                                                                                                                | Masse: 36.56    | Echelle:1:10 NON                                |  |             | Feuille 3 de 4                    |



|                                                                                                                                                                           |  |               |  |                                 |  |                                                                                                                                                                                                                                                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|--|---------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Tolérances générales ISO 2768-<br>Pièces moulées ISO 8802-CT<br>Symboles de soudure ISO 2553<br>Procédé de soudage<br>Tol. gén. de soudure ISO 13920-<br>Pression d'essai |  | Finition:     |  | Rayons non cotés R<br>Cautreans |  | Revision: F                                                                                                                                                                                                                                                       |  |
|                                                                                                                                                                           |  |               |  |                                 |  |    |  |
| Nom                                                                                                                                                                       |  | Signature     |  | Date                            |  | Dénomination:                                                                                                                                                                                                                                                     |  |
| Dessiné                                                                                                                                                                   |  | Samson Deriaz |  | 024.08.2026                     |  | <h1>Vehicle Frame</h1>                                                                                                                                                                                                                                            |  |
| Contrôlé                                                                                                                                                                  |  |               |  |                                 |  |                                                                                                                                                                                                                                                                   |  |
| Conf. normes                                                                                                                                                              |  |               |  |                                 |  |                                                                                                                                                                                                                                                                   |  |
| Bon pour exéc.                                                                                                                                                            |  |               |  |                                 |  |                                                                                                                                                                                                                                                                   |  |
|                                                                                                                                                                           |  |               |  | Matériau: E235                  |  | Nom du fichier (Dessin)<br>MA2-001_VehicleFrame                                                                                                                                                                                                                   |  |
|                                                                                                                                                                           |  |               |  |                                 |  |                                                                                                                                                                              |  |
|                                                                                                                                                                           |  |               |  | Masse: 36.56                    |  | Echelle: 1:10 NON                                                                                                                                                                                                                                                 |  |
|                                                                                                                                                                           |  |               |  |                                 |  | Feuille 4 de 4                                                                                                                                                                                                                                                    |  |
|                                                                                                                                                                           |  |               |  |                                 |  | A2                                                                                                                                                                                                                                                                |  |