# Rapport généré par treeDiM StackBuilder

|  |  |  |  |
| --- | --- | --- | --- |
| **Document** | Matches | | |
| **Description** | An attempt to fit the highest number of match boxes in a truck. | | |
| **Date** | 23/11/2011 | **Auteur** | fgasnier71@gmail.com |

## Analyse Caisse/Palette

### Etui

|  |  |  |
| --- | --- | --- |
| **Nom** | Match box | |
| **Description** | A kitchen match box contains 240 matches | |
| **Longueur (mm)** | 78.50 | K:\GitHub\StackBuilder\Samples\images\view_box_iso.png |
| **Largeur (mm)** | 56.00 |
| **Hauteur (mm)** | 31.50 |
| **Masse (kg)** | 0.04 |

### Casse d'étuis

|  |  |  |  |
| --- | --- | --- | --- |
| **Nom** | Match box\_3\*5\*10\_01 | | |
| **Description** | Case generated by case optimization for box Match box and pallet EUR2 | | |
| **Longueur ()** |  | **Longeur intérieure ()** | 235.50 |
| **Largeur (mm)** | 288.00 | **Largeur intérieure (mm)** | 280.00 |
| **Hauteur (mm)** | 331.00 | **Hauteur intérieure (mm)** | 315.00 |
| **Volume (mm)** | 232.12 | **Volume interne (l)** | 207.71 |
| **Masse (vide) (kg)** | 19.35 | **Masse (kg)** | 19.35 |
| **Nombre d'étuis** | 150 | **Disposition** | 3\*5\*10 |
| **Dim0** | 0 | **Dim1** | 1 |
| K:\GitHub\StackBuilder\Samples\images\view_caseOfBoxes_iso1.png | | K:\GitHub\StackBuilder\Samples\images\view_caseOfBoxes_iso2.png | |

### Palette

|  |  |  |
| --- | --- | --- |
| **Nom** | EUR2 | |
| **Description** | 1200 \* 1000 mm Pallet EUR 2 (http://www.epal-pallets.org) | |
| **Longueur (mm)** | 1200.00 | K:\GitHub\StackBuilder\Samples\images\view_pallet_iso.png |
| **Largeur (mm)** | 1000.00 |
| **Hauteur (mm)** | 144.00 |
| **Masse (kg)** | 0.00 |
| **Chargement admissible (kg)** | 0.00 |

### Jeu de contraintes

|  |  |
| --- | --- |
| **Débord Longueur/Largeur(mm)** | 0.00 / 0.00 |
| **Hauteur palette maximale (mm)** | 1320.00 | |
| **Orientations permises** | XP,YP,ZP | |
| **Couches alignées autorisé** | True | |
| **Couches alternées autorisé** | True | |

### Solution sélectionnée

|  |  |  |  |
| --- | --- | --- | --- |
| **Titre** | Interlocked-Y-aligned-2 | | |
| **Nombre de caisses** | 56 | | |
| **Masse palette (kg)** | 1113.60 | | |
| **Hauteur palette (mm)** | 1296.00 | | |
| **Efficacité (%)** | 92.11 | | |
| K:\GitHub\StackBuilder\Samples\images\view_palletsolution_front.png | K:\GitHub\StackBuilder\Samples\images\view_palletsolution_left.png | K:\GitHub\StackBuilder\Samples\images\view_palletsolution_right.png | K:\GitHub\StackBuilder\Samples\images\view_palletsolution_back.png |
| K:\GitHub\StackBuilder\Samples\images\view_palletsolution_iso.png | | | |

### Layer(s)

|  |  |  |
| --- | --- | --- |
| 1 | 14 | K:\GitHub\StackBuilder\Samples\images\layerImage1.png |

## Analyse camion

|  |  |  |
| --- | --- | --- |
| **Nom** | Semi-trailer | |
| **Description** | Standard tarped semi-trailer (Europe) | |
| **Longueur (mm)** | 13700.00 | K:\GitHub\StackBuilder\Samples\images\view_truck_iso.png |
| **Largeur (mm)** | 2480.00 |
| **Hauteur (mm)** | 2650.00 |
| **Chargement admissible (kg)** | 24000.00 |

### Solution sélectionnée

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre de palette** | 52 | **Nombre de caisses** | 2912 |
| **Masse chargement (kg):** | 57907.20 | | |
| **Efficacité massique (%)** | 241.28 | **Efficacité volumique (%)** | 75.07 |
| K:\GitHub\StackBuilder\Samples\images\view_trucksolution_top.png | | | |
| K:\GitHub\StackBuilder\Samples\images\view_trucksolution_iso.png | | | |