

Raidisseur en C en aluminium

Aluminum Strongback

Fiche technique

Technical Data Sheet

Raidisseur en C 190 mm (7.5") : tableau de calcul des charges selon des portées données

190mm (7.5") strongback : table of load ratings at given spans

| Portée span [m] | Métrique Metric | | | | Portée span [pi ft] | Impérial Imperial | | | |
|-----------------------|--|-----------------------------------|--|-----------------------------------|---------------------------|---|--|---|--|
| | Déflexion ¹ Deflection ¹ [mm] L/360 | Charge Load [kN/m] L/360 | Déflexion ¹ Deflection ¹ [mm] L/270 | Charge Load [kN/m] L/270 | | Déflexion ¹ Deflection ¹ [po in] L/360 | Charge Load [lb/pi lb/ft] L/360 | Déflexion ¹ Deflection ¹ [po in] L/270 | Charge Load [lb/pi lb/ft] L/270 |
| 1.22 | 2.4 | 116.0 | 2.4 | 138.0 | 4 | .09 | 7982 | .09 | 9500 |
| 1.53 | 4.2 | 90.2 | 5.6 | 111.0 | 5 | .17 | 6208 | .22 | 7600 |
| 1.83 | 5.1 | 52.2 | 6.8 | 69.7 | 6 | .20 | 3595 | .27 | 4800 |
| 2.13 | 5.8 | 32.4 | 7.9 | 43.1 | 7 | .23 | 2230 | .31 | 2970 |
| 2.44 | 6.8 | 22.0 | 9.0 | 29.3 | 8 | .27 | 1517 | .36 | 2020 |
| 2.74 | 7.6 | 15.5 | 10.1 | 20.6 | 9 | .30 | 1065 | .40 | 1420 |
| 3.05 | 8.5 | 11.3 | 11.3 | 15.0 | 10 | .33 | 775 | .44 | 1033 |
| 3.35 | 9.3 | 9.4 | 12.4 | 12.5 | 11 | .37 | 641 | .49 | 855 |
| 3.66 | 10.2 | 7.2 | 13.5 | 9.6 | 12 | .40 | 493 | .53 | 657 |
| 3.96 | 11.0 | 5.7 | 14.7 | 7.6 | 13 | .43 | 388 | .58 | 517 |
| 4.27 | 11.9 | 4.5 | 15.8 | 6.1 | 14 | .47 | 377 | .62 | 415 |
| 4.57 | 12.7 | 3.7 | 16.9 | 4.9 | 15 | .50 | 253 | .67 | 337 |
| 4.88 | 13.5 | 3.0 | 18.1 | 4.0 | 16 | .53 | 208 | .71 | 277 |
| 5.18 | 14.4 | 2.5 | 19.2 | 3.4 | 17 | .57 | 174 | .76 | 232 |
| 5.49 | 15.2 | 2.1 | 20.3 | 2.9 | 18 | .60 | 146 | .80 | 195 |
| 5.79 | 16.1 | 1.8 | 21.4 | 2.4 | 19 | .63 | 124 | .84 | 165 |
| 6.10 | 16.9 | 1.6 | 22.6 | 2.1 | 20 | .67 | 107 | .89 | 143 |

¹Déflexion basée sur une portée simple
Deflection based on a single span

Toutes les données sont basés sur deux raidisseurs en C, sauf indication contraire
All data shown based on two channels, unless otherwise indicated

Facteur de sécurité 2.2 : 1, raidisseur supporté latéralement
Safety factor 2.2 to 1, strongback laterally supported

Données techniques*

Technical data*

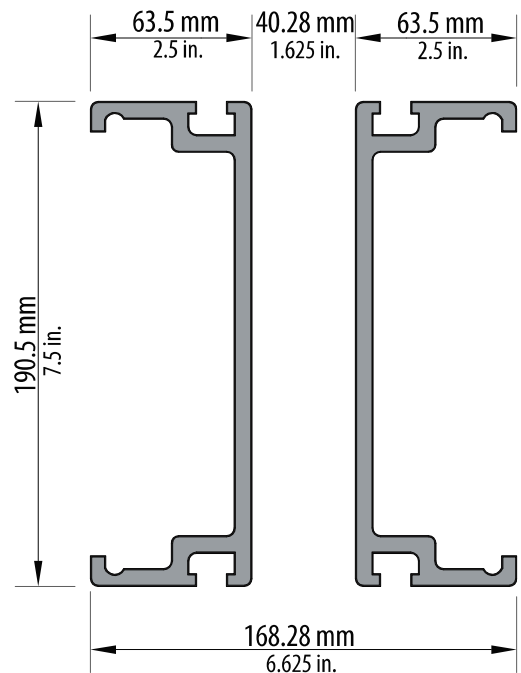
| | Métrique Metric | Impérial Imperial |
|-----------------|---|---------------------------------------|
| Poids Weight | 11.9 kg/m | 8.0 lb/pi lb/ft |
| I_{xx} | 23.5 x 10 ⁶ mm ⁴ | 56.43 po ⁴ in ⁴ |
| S_{xx} | 246.6 x 10 ³ mm ³ | 15.05 po ³ in ³ |
| Section Area | 4348 mm ² | 6.74 po ² in ² |

*donnée techniques basées sur deux raidisseurs en C
*Technical data based on two aluminium strongback

Longueurs et poids standard

Standard lengths and weights

| | Métrique Metric | Impérial Imperial |
|--------|--------------------|----------------------|
| 0.99 m | 3'-3" ft | 11.8 kg / 26 lbs |
| 1.22 m | 4'-0" ft | 14.5 kg / 32 lbs |
| 1.52 m | 5'-0" ft | 18.1 kg / 40 lbs |
| 1.83 m | 6'-0" ft | 21.8 kg / 48 lbs |
| 2.13 m | 7'-0" ft | 25.4 kg / 56 lbs |
| 2.59 m | 8'-6" ft | 30.8 kg / 68 lbs |
| 3.00 m | 9'-10" ft | 35.7 kg / 79 lbs |
| 3.81 m | 12'-6" ft | 45.3 kg / 100 lbs |
| 4.88 m | 16'-0" ft | 58.0 kg / 128 lbs |
| 6.10 m | 20'-0" ft | 72.5 kg / 160 lbs |



Pour référence seulement. Tout échafaudage/coffrage doit être calculé et inspecté par un ingénieur en règle.
For reference only. Scaffolding/formwork must be calculated and inspected by an engineer in good standing.