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| **1. Localisation** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No de dossier (contrat) : | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Route : | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Obstacle : | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
| No de plan : | | | | | | | | | | | | | | | | PO- | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Municipalité : | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
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| **2. DESCRIPTION** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nombre de poutres : | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | Poutre NEBT : | | | | | | | | | | | | | | | | | | | 1 000 | | | | | | | | | | | | | | 1 200 | | | | | | | | | | | | | | | 1 400 | | | | | | | | | | | | | | | | | | 1 600 | | | | | | | | | | | | | | | | | 1 800 | | | | | | | | | | | | Autre : | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | |
| Longueur prévue : | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | m | | | | | | | | | | | | | Biais : | | | | | | | | | | | | | |  | | | | | | | | | º | | | | | | | | | | | | | Biais tronqué : | | | | | | | | | | | | | |  | |
| **Torons** : | | | | | φ 12,7 mm | | | | | | | | | | φ 15,2 mm | | | | | | | | | | | | | | | | | | | | | | | Droits (nbre) : | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | Relevés (nbre) : | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | Total (nbre) : | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | |
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| **3. INTERVENANTS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **DGT (usine) :** | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | **DGT (projet) :** | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
| Responsable AQ : | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | Tél. : | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Chargé d’activité : | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tél. : | | | | | | | |  | | | | | | | | | | |  | |
| Laboratoire : | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Désire formulaire F309.2 en cours de fabrication : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Oui  Non | | | | | | | | | | | | |
|  | Responsable : | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | Tél. : | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Désire relevé de cambrure à l’usine : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Oui  Non | | | | | | | | | | | | |
|  | Tech. en usine : | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | Tél. : | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Concepteur : | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tél. : | | | | | | | | | |  | | | | | | | | | | |  | |
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| **Entrepreneur général** : | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chargé de projet : | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Tél. : | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Fabricant des poutres :** | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Tél. : | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ingénieur de l’usine : | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Technicien (ajustement et essai sur béton plastique) : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | |
| Responsable production : | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | * Certifié ACI en date du : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | Jusqu’au : | | | | | | | | | | | | | | | | | |  | | | | | | |  | |
| Responsable du contrôle de la qualité dans l’usine : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
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| **4. USINE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certification CSA-A23.4 délivrée par l’AQBPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date d’échéance : | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certification CSA W 186-M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Datée du : | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | Valide jusqu’au : | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |
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| **Compétence des soudeurs** | | | | | | | | | | | | | | | | | | | | | | (internes ou externes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Noms | | | | | | | | | | | | | | | | | | | Compétence | | | | | | | | | | | | | | | | | | | | | | | | | | Valide jusqu’au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Noms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Compétence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Valide jusqu’au | | | | | | | | | | | |  | | |
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| **5. RÉUNION PRÉALABLE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date : | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | Étaient présents : | | | | | | | | | | | | | | | | | | | | | | Concepteur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | Resp. ass. qual (DGT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | Entrepreneur | | | | | | | | | | | | | | | | | | | | | |  | | |
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| Date de l’avis de fabrication des poutres : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
| Échéancier de fabrication : | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | du | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | au | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | Ordre de fabrication : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
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| **6. EXIGENCES DE CONCEPTION ET DOCUMENTS REQUIS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plans d’atelier, notes de calculs, procédure de précontrainte et ordre de coupe des torons visés par le concepteur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Équipements (ensemble « vérin, pompe, manomètre ») :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Kit no 1 : | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | | | | |  | | |
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|  | | Certificat d’étalonnage | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | Daté du (< 6 mois) : | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | Mise en tension : | | | | | | | | | | | | | | | | | | | | | | | | | | Vérin monotoron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Vérin multitorons | | | | | | | | | | | | | | |
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| **Procédure de précontrainte** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  |  | | | | | | | | Mise en tension initiale | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mise en tension finale | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
|  | Types de torons | | | | | | | Allongement initial des torons calculés (mm) | | | | | | | | | | | Lecture initiale au manomètre | | | | | | | | | | | | | | | | | | | | | | | Allongement des torons de l’allongement initial au final | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Lecture finale au manomètre | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Glissement à l’ancrage (mm) | | | | |  | | |
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|  | Droit | | | | | | |  | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | |  | | | | |  | | |
|  | Relevé | | | | | | |  | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | Kit no 1 :    ,  Kit no 2 : | | | | | | | | | | | | | | | | | | | | | |  | | | | |  | | |
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|  | La procédure de précontrainte est valide : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | * pour une même configuration de fabrication; | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
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| **7. MATÉRIAUX** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Torons** | | | | | | | | | | | Attestation de conformité | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Entreposage | | | | | | | | | | | | | | | | | | | | | | | | | | | Fabricant : | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | Fiabilité déjà démontrée | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | | | | | | | | Joint de raccordement (à l’extérieur de la poutre) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |
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| **Armature** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **400W** | | | | | | Entreposage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Fabricant : | | | | | | | | | | | | | | | | | | | 1) no 10 : | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
|  | | | | | | Façonnage par : | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 2) no 15 : | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
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| **Béton** | | | | Type de béton : | | | | | | | | | | | | | VIII | | | | | | | | | | | | | | | | | | | | IX | | | | | | | | | | | | | | | | | | Type de ciment : | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | | | | f’ci : | | | | | | | | | |  | | | | | | | | | | | | | |  | MPa | | | | | | | | | | | | | | | | f’c : | | | | | | | |  | | | | | |  | MPa | | | |
|  | | | | Fournisseur : | | | | | | | | | | | | | Interne | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | |  | | | | | | | | | | | | | Nom : | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | Fiche descriptive du mélange approuvée par le surveillant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | Essais sur le béton plastique : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ministère | | | | | | | | | | | | | | | | | | | | | | | | | | | | Fabricant | | | | | | | | | | |  |
|  | | | | Certificat d’étalonnage de la presse à béton | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Daté du (< 12 mois) : | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Doublure de coffrages** | | | | | | | | | | | | | | Marque : | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mortier cimentaire en sacs pour correction des surfaces** (ayant au moins 20 MPa à 24 heures) : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
| **Membrane PMMA pour protection des torons aux extrémités de la poutre** : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
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