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| **1. GÉNÉRALITÉS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plans d’atelier utilisés en usine : | | | | | | | | |  | • Visés par le concepteur | | | | | | | | | | | | | | | Température ambiante dans l’usine : | | | | | | |  | | °C | |
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| **2. ARMATURE ET COFFRAGES** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Armature** | | | Propreté conforme selon l’article 15.5.3.6 du CCDG (y compris crochets de levage) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Position conforme des étriers, trous aux diaphragmes, plaques d’appui, dispositifs d’ancrage aux poutres et crochets de levage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | **Recouvrement minimal mesuré sur les attaches des étriers et des déflecteurs (40 ± 8 mm)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
|  | | | Soudure des étriers à plus de 3 m des coffrages | | | | | | | | | | | | | | | | |  | Selon la norme CSA W186 | | | | | | | | | Aucune soudure dans l’âme de la poutre | | | | | |
|  | | | Avis de conformité de mise en place des armatures et accessoires signé et reçu | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |  | | |
| **Coffrages** | | | Longueur de la poutre avant le bétonnage : | | | | | | | | |  | | | | | m | | |  | Doublure de coffrages | | | | | | | | | Pente des surfaces d’appui des poutres | | | | | |
|  | | | Nettoyage des coffrages avec jet d’air sans huile | | | | | | | | | | | | | | | | | |  | | | | | | | | | | |  | | | |
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| **3. MISE EN TENSION DES TORONS Remplir l’annexe 1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **4. BÉTONNAGE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avis de bétonnage | | | | | Date : | | |  | | | | |  | | Heure : | |  | | | | | | |  | | | | | | |  | | | |  |
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|  | **Autorisation de bétonnage** | | | | | | |  | | |  | | | | |  | | | | | |  | | | | |  | |  | |  | | | |  |
|  | Puisque les conditions préalables au bétonnage stipulées à l’article 15.5.3.8.1 du CCDG sont remplies; | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | | | |  |
|  | Puisque le responsable de la production sera à l’usine lors du bétonnage; | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | |  | | | |  |
|  | Puisque la température ambiante dans l’usine lors du bétonnage sera de 10 °C ou plus; | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | |  | | | |  |
|  | L’entrepreneur est autorisé à bétonner la ou les poutres | | | | | | | | | | | | |  | | | | | | | | | | | | aux dates et aux heures indiquées dans l’avis de bétonnage. | | | | | | | | |  |
|  | Autorisé par : | | |  | | | | | | | | | | | | | |  | Date : | | | |  | | | | | |  | | | | | |  |
|  |  | | | Laboratoire | | | | | | | | | | | | | |  | | | | | | | | | | |  | |  | | | |  |
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| Caractéristiques du béton plastique | | | | | | | | | | | | | | | | | | | | | Teneur en air : | | | | | | | | | | | | | | |  | | | | | | | | | | | % | | | | | | | Température du béton : | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | oC | Affaissement : | | | | | | | | | | | | | | | | | | |  | | | | | | mm | | | | | |
| (avant le début du bétonnage) | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | | | | | | |
| Échantillon pour vérification du réseau de bulles d’air (L) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Résultat : | | | | | | | | | | | | | | |  | | | | | µm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Séquence de bétonnage : | | | | | | | | | 2 chargements | | | | | | | | | | | | | | | | | 3 chargements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Consolidation du béton (vibrateur) : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Externe | | | | | | | | | | | | | | | | | | | Interne | | | | | | | | | | |
| Bétonnage : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
| 1er chargement | | | | | | | Date de début : | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | Heure : | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | Date de fin : | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | Heure : | | | | | |  | | | | | | | |  | | |
| 2e chargement | | | | | | | Date de début : | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | Heure : | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | Date de fin : | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | Heure : | | | | | |  | | | | | | | |  | | |
| 3e chargement | | | | | | | Date de début : | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | Heure : | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | Date de fin : | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | Heure : | | | | | |  | | | | | | | |  | | |
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| **5. CURE DU BÉTON (article 15.5.3.8.8 du CCDG)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feuilles imperméables mises en place dès la fin du bétonnage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |
| Température maximale enregistrée : | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enregistrement automatisé du cycle de traitement thermique remis au laboratoire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |
| Cure accélérée : non  oui | | | | | | | | | | | | | | | | | | | | | | | | | | | | Si cure accélérée : - Écart de 5 °C maximal sur coffrages | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | - Cycle de cure conforme au tableau 2 (A23.4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | | | | |
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| **6. TAUX DE DÉCROISSEMENT DE LA TEMPÉRATURE** conforme  non conforme | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **7. application de la précontrainte** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Résistance du béton avant l’application de la précontrainte : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | MPa | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approbation du laboratoire avant l’application de la précontrainte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | | | | | | |
| Début du décoffrage (1 heure max. avant la fin de l’application de la précontrainte) : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date : | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Heure : | | | | | | | | | | |  | | | | | | | | | | | |  |
| Fin de l’application de la précontrainte : | | | | | | | | | | | | | | | | | | | | | | | | | | | Date : | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Heure : | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | | | | | | |
| Ordre de coupe des torons : | | | | | | | | | | | | Tel que prévu | | | | | | | | | | | | | | | | | | | **Remplir l’annexe 2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coupe des attaches aux points de déflexion, après la coupe de combien de torons : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | (après la coupe de 25 % à 50 % des torons) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **8. tolérances dimensionnelles** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Longueur totale après 28 jours : | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | m | | | | | | | | | | | | | | | | | | | | | | | | | | Déviation latérale | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | mm | | | | | | | | | | | | | | | | | | | |
| Pente des surfaces d’appui des poutres | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Position des trous aux diaphragmes et des dispositifs d’ancrage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **9. VÉRIFICATION DU RECOUVREMENT (PACHOMÈTRE)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nombre de non-conformités : | | | | | | | | | | | | |  | | | | | | | | | | | | | | | étriers | | | | | | P1600-R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **10. CORRECTION ET FINI DE SURFACE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Température de surface du béton de la poutre lors de la correction : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | °C | | | | | | Mortier utilisé : | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |
| Fin de la correction (au moins 24 heures avant le transport des poutres) : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date : | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | Heure : | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | |
| Décrire les parties de poutre ayant été corrigées : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | * Cavités de 6 à 12 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | |
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| **11. ENTREPOSAGE** Support au niveau à l’endroit des appuis permanents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **12. DÉPART POUR LE CHANTIER** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **13. COMMENTAIRES** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **14. DISTRIBUTION DES FORMULAIRES F309.1 ET F309.2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGT (responsable assurance qualité) | | | | | | | | | | | | | | | | | | | | | | | | | | | | Surveillant | | | | | | | | | | | | | | | | | | | | | Date : | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **N. B.** | Les formats à adopter pour inscrire les dates et les heures sont : date = AAAA/MM/JJ heure = 00 h 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Ce formulaire doit être transmis au surveillant au moins 24 heures après la livraison de l’élément au chantier.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| **ANNEXE 1**  **MISE EN TENSION DES TORONS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **TORONS RELEVÉS** | | | | | | **TORONS DROITS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
|  | **No** | | **Lecture au manomètre\*** | | **Allongement (mm)\*\*** | | **No** | **Lecture au manomètre\*** | **Allongement (mm)\*\*** | | | | **No** | | **Lecture au manomètre\*** | | | | **Allongement (mm)\*\*** | | | | | | | **No** | | | | | **Lecture au manomètre\*** | | | | | | | | | | | | | **Allongement (mm)\*\*** | | | | | | | | | | |  | |
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|  | |  | |  | |  | | Équipements (ensemble « vérin, pompe, manomètre ») : | | | | | | | | |  | | |  | | | | | pour torons nos : | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  |
|  | | | | | pour torons nos : | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |
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|  | |  | |  | |  | | Tourets nos: | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | |  | |  | |  | | E : | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | |  | |  | |  | | Contrôle de réception | | | | Sinon, déjà fait le : | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | | |
|  | |  | |  | |  | | Position des torons (y compris la localisation des points de déflexion) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | |  | | | | |  | | | | | | | | |
|  | |  | |  | |  | | Torons défectueux | | | | Si oui, torons nos: | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |
|  | |  | |  | |  | | Torons remplacés | | | | Si oui, torons nos: | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | |  | | |
|  | |  | |  | |  | | Glissement à l’ancrage | | | | Torons (3) nos: | | | |  | |  | | |  | | | mm; | | |  | | | | |  | | |  | | | | | mm; | | | | |  | |  | | |  | | mm | | | | |
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|  | |  | |  | |  | | Notes : - L’allongement est mesuré directement sur le toron. | | | | | | | | | | | | | | | | | | | | |  | | | | |  | | | | | | | | | | | |  | | | | | | | | | | |
|  | |  | |  | |  | | \*Lecture finale au manomètre MPa  Psi  Lb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |
|  | |  | |  | |  | | \*\*Après allongement initial | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |
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| **ANNEXE 2**  **ORDRE DE COUPE DES TORONS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |