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**Addendum No. 06**

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Project No.     PTS 3043  
Date:            November 04, 2015

**Project:        Safety Access to Tarmac**

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The following information supplements the bid documents issued.

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

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Addendum Items.

- 6.1 (Q33)        Door operators: to ANSI/BHMA A156.15 (2006), release devices – closer holder, electromagnetic and electro mechanical, and ANSI/BHMA A156.19 (2002), power assist and low energy power-operated doors.
- .1 Heavy duty pneumatically assisted door operator, capable of multi-door operation, complete with actuators, control boxes, pneumatic tubing and compressed air source.
  - .2 Self-contained control box/compressor combination for independent operation of two door leafs.
  - .3 Control boxes: complete with electric strike relay.
  - .4 Mount operators on push side of doors, inside of building.
  - .5 Actuation of operators by card reader (coordinate with security).
  - .6 Electrical box and actuator: hardwired low voltage actuator.
  - .7 Supply switched line voltage to control box. Locate switch adjacent to box.
  - .8 Supply low voltage wiring to each actuator and 6mm diameter air tubing to each operator.
  - .9 Mount control box in location as directed by Departmental Representative.
- 6.2 (Q from Defran) Door D101, doors to be self-latching and equipped with panic hardware bars.
- 6.3 (Q42)        Air barrier membrane: 1 mm thick Perma Barrier and Perma Barrier Low Temperature Membranes by W.R. Grace & Co. or SBS modified bitumen with polyester reinforcement – Blueskin SA by Bakor or Sopraseal Stick 1100 by Soprema. Air barrier material shall provide a continuous air barrier system c/w connections to adjacent air barrier systems within the building

envelope. Provide compatible adhesive grade material for transitional areas to create air seal between self-adhesive locations and adjacent materials and between any other two air/vapour barriers. Prior to commencement of work, ensure compatibility with substrate and adjacent surfaces. Follow manufacturer's written instructions for assembly and regarding environmental conditions and protection during construction. Air barrier is to be applied such that the exterior wall is air tight, with air tight junctures at frames, parapets and all penetrations, openings and edges. Provide transition strips around openings made in exterior wall of existing building. Lap joints of the air barrier membrane for a minimum of 50 mm and fully seal. Prior to covering air membrane, request review by Departmental Representative. Any required repairs shall be made to extend a minimum of 100 mm in all directions from the perimeter of the affected area.

- 6.4 (Q46) Enclosed is sketch SK -100-1 outlining reference for grading at building and parking lot. This is to be read with drawing SS-1.
- 6.5 (Q32) Clarification: door grille for door D4 to be brushed stainless steel.
- 6.6 Alternate grout product: CG-86 Grout by W.R. Meadows of Canada is acceptable as an alternate product. Two data sheets are enclosed.
- 6.7 (Q43) Detail at Wall Junction, refer to attached detail SK-302.1.

**END OF ADDENDUM No. 06**

## DATA SHEET NO. 3600-201

### CG-86™ Construction-Grade Grout (Canada)

#### DESCRIPTION

CG-86 construction-grade grout is a non-ferrous, non-gaseous, non-shrink economical grout. It was specifically developed as a high-strength, cost-effective, general-purpose grout for use across a broad range of large and small construction projects. CG-86 is non-gaseous, will not rust, and contains no added chlorides or gypsum. It is furnished premixed and ready to use. CG-86 may be extended for deep grouting with pea gravel for greater yield and increased economy.

#### USES

CG-86 is very versatile and may be used for either interior or exterior applications. CG-86 is designed for base plate grouting, anchoring, precast wall panels, and bridge seats.

#### FEATURES/BENEFITS

- Furnished premixed and ready-to-use ... just add water.
- Provides a high-strength, non-ferrous, non-shrink grout for a broad range of general construction projects.
- Offers the strength and characteristics required for cost-effective, general-purpose grouting.
- Cost reductions are realized when extended with pea gravel for deep grouting.
- Requires no separate bonding agent.
- No site batching required for consistent results.
- Chloride-free.

#### PACKAGING

22.7 Kg Poly-Lined Bags

#### YIELD

0.012 m<sup>3</sup> per 22.7 kg bag.

#### SHELF LIFE

One year from date of manufacture when stored indoors on pallets in a dry, cool area. Do not store product outside.

#### SPECIFICATIONS

- Agriculture and Agri-Food Canada accepted.
- Approved by the Ministry of Transportation, Quebec

#### TECHNICAL DATA

Consistency (Per ASTM C 827-95A)	Plastic	Flowable
Mix Ratio per 22.7 kg (50 lb.)	3.0 litres (6.34 U.S. pints)	3.5 litres (7.40 U.S. pints)
Flow (per ASTM C 230-90)	110%	130%
Set Time (per C 191-92, Initial)	4 - 6 hours	5 - 7 hours
Compressive Strength (per ASTM C 109-93)		
@ 1 day	38.9 MPa (5,200 psi)	26.9 MPa (3,900 psi)
@ 3 days	49.6 MPa (7,200 psi)	40.0 MPa (5,800 psi)
@ 7 days	60.7 MPa (8,800 psi)	49.0 MPa (7,100 psi)
@ 28 days	66.2 MPa (9,600 psi)	61.4 MPa (8,900 psi)

All technical data is typical information, but may vary due to testing methods, conditions, and procedures.

#### APPLICATION

All grouting should be done using established procedures according to American Concrete Institute (ACI) recommendations.

**Surface Preparation ...** All grout contact surfaces must be clean and free of oil, grease, scale, etc. Unsound concrete must be chipped out. Leave surface rough but level. Grouting area must be saturated with water 12 – 24 hours prior to grouting. Remove all excess water before placing grout.

**Pouring ...** Method of forming must provide for rapid, continuous grout placement. Ensure form is well sealed.

Continued over ...

**W. R. MEADOWS OF CANADA**  
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St. Albert, AB  
[www.wrmeadows.com](http://www.wrmeadows.com)

**Placement ...** CG-86 is easily placed by pouring or pumping and compaction can be accomplished by rodding or light vibrating. Place grout on one side, flowing to opposite and adjacent sides, to avoid entrapment of air. When necessary, provide vent holes. Grout "head" and excess grout may be removed after initial set.

**Curing ...** Cure CG-86 immediately following application using a suitable curing compound from W. R. MEADOWS, or in accordance with ACI 308. 1100-CLEAR, 1220-WHITE, CS-309™ series, or VOCOMP®-25 from W. R. MEADOWS are recommended. When conditions exist for rapid early water loss, the use of EVAPRE™, an evaporation retarder from W. R. MEADOWS, is also recommended.

**Venting ...** Forming also must ensure adequate venting to avoid air entrapment. Do not make close fitting forms; allow 12.7 mm clearance and 25.4 mm for "head."

**Mixing ...** Small quantities of CG-86 may be hand-mixed in a concrete mixing pan until lump-free. For large quantities and continuous pours, use a mortar mixer with rubber-tipped blades. Mix for a minimum of three minutes or until uniform and lump-free. Use minimum water required to produce desired placement consistency. Do not mix more than can be placed in 30 minutes. Do not re-temper. Use only clean, potable water.

Set time and strength development is dependent on temperature; therefore, follow ACI methods during hot or cold weather grouting.

ACI 305 – "Standard on hot weather concreting"  
ACI 306 – "Standard on cold weather concreting"

Cost reductions are realized when grouting large areas by adding washed, dried, and graded pea gravel. For thicknesses 50.8 – 101.6 mm, add up to 25% 9.5 mm pea gravel. For thicknesses 101.6 mm and over, add up to 50% 9.5 mm pea gravel. Always follow standard ACI concreting practices. Addition of gravel will reduce the flow of the neat mix. Addition of pea gravel is based on percentage of the weight of the dry grout.

## PRECAUTIONS

Do not use as a repair mortar. (Please contact W. R. MEADOWS for specific repair mortar recommendations.) Normal cement storage handling practices should be observed. Grouting should be done using established concreting procedures, according to ACI recommendations. Read and follow application information, precautions and Material Safety Data Sheet information.

## MASTERFORMAT NUMBER AND TITLE

03 62 13 - Non-Metallic Non-Shrink Grouting

## LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

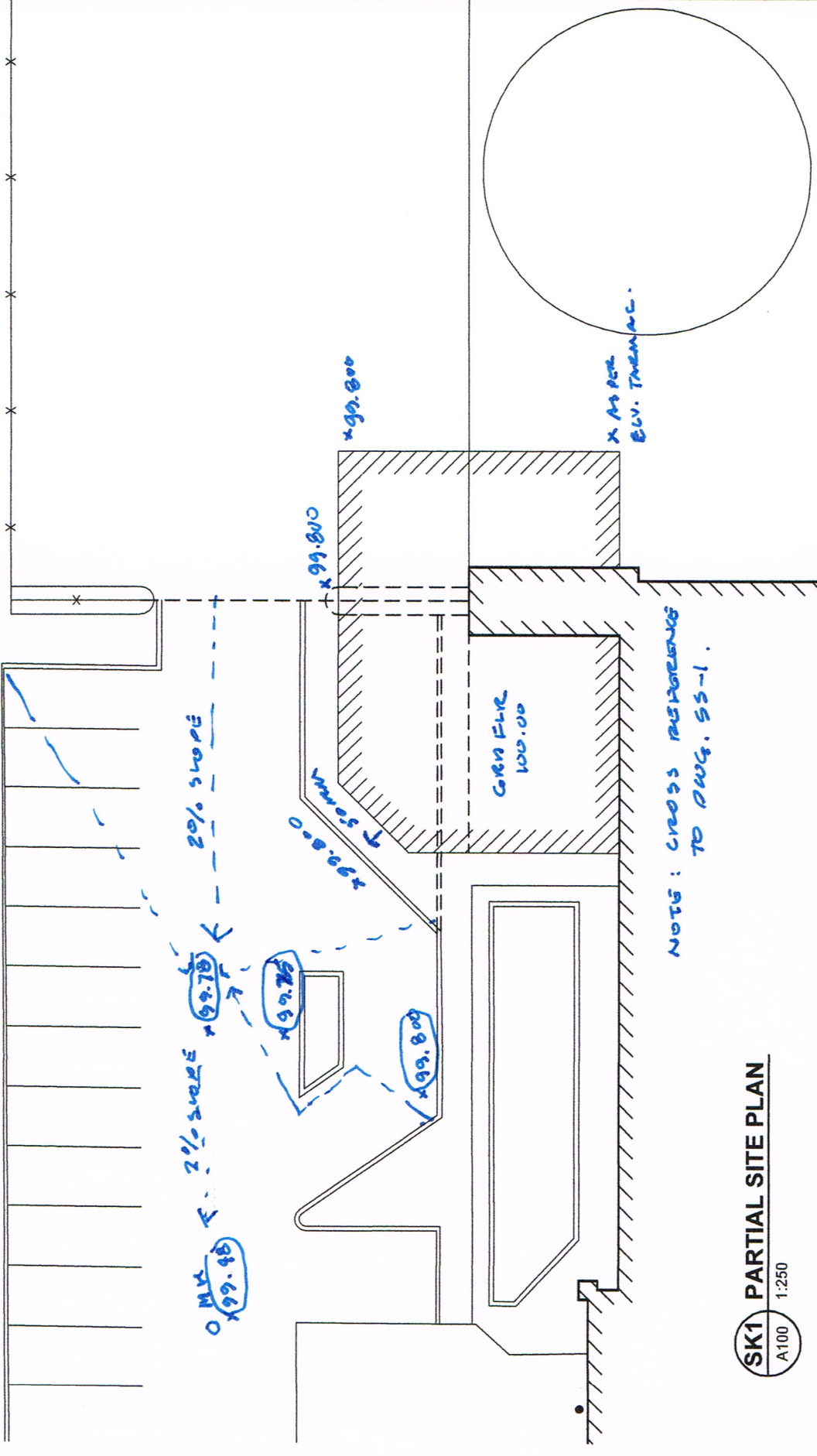
For most current data sheet, further LEED information, and MSDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

2014-06-25



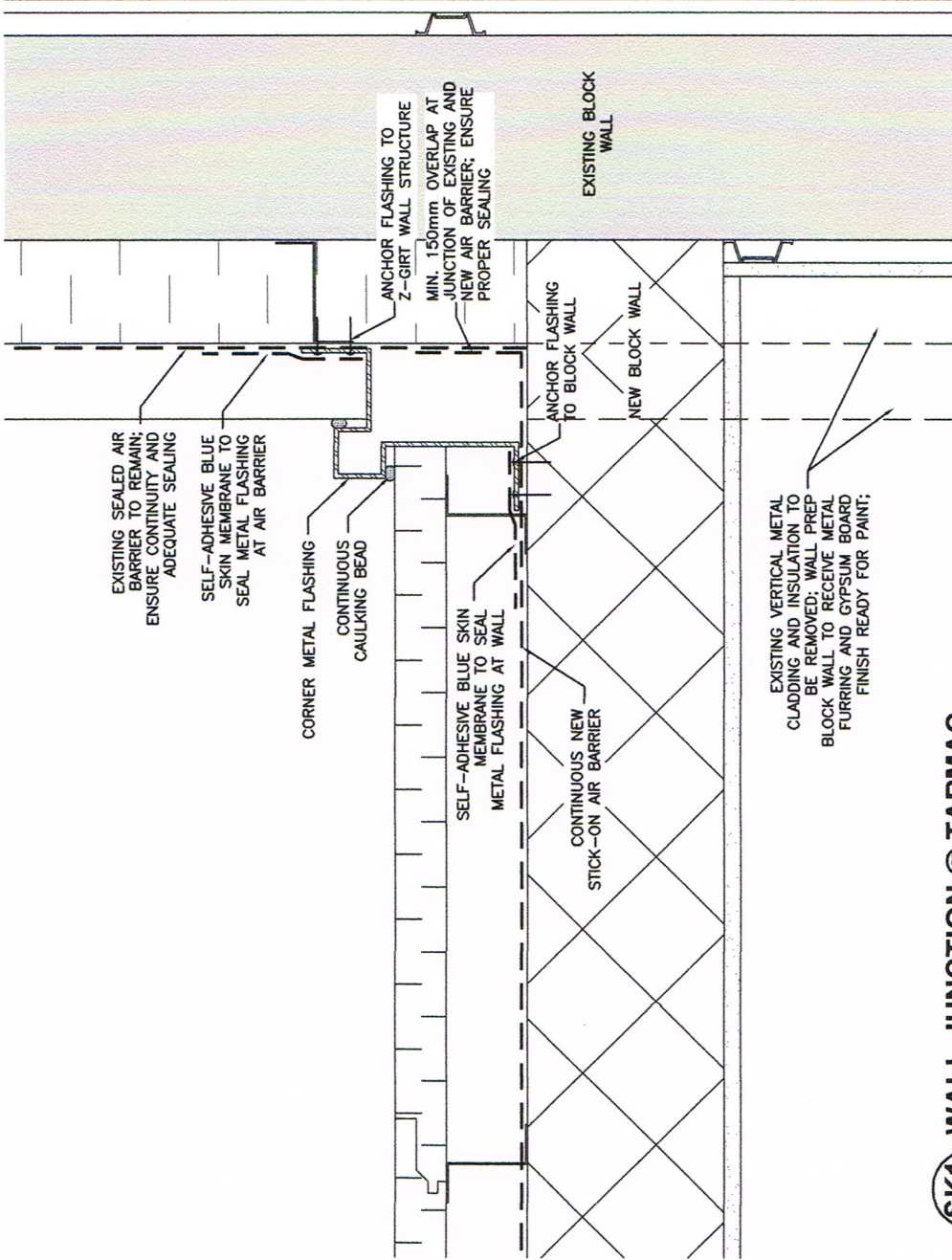
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**WARRANTY:** W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.



**SK1** PARTIAL SITE PLAN  
A100 1:250

Public Works and Government Services Canada Real Property Branch	Travaux publics et services gouvernementaux Canada Direction générale des biens immobiliers	Designed By Date Drawn By Date Reviewed By Date Approved By Date	Conçu par (yyyy/mm/dd) Dessiné par (yyyy/mm/dd) Examiné par (yyyy/mm/dd) Approuvé par (yyyy/mm/dd)	Project SAFETY ACCESS TO TARMAC OTTAWA, ONTARIO Project no. PTS3043	Project SAFETY ACCESS TO TARMAC OTTAWA, ONTARIO No. du projet PTS3043	Drawing PARTIAL SITE PLAN GRADING MODIFICATIONS Drawing no. SK-100.1	Dessin PARTIAL SITE PLAN GRADING MODIFICATIONS No. du dessin SK-100.1
	Tender Project Manager	Submission Administrateur de projets	R. J. BOYLE 11.2015	R. J. BOYLE 11.2015	No. du projet PTS3043	No. du projet PTS3043	Drawing no. SK-100.1



**SK1** WALL JUNCTION @ TARMAC  
A302 NTS

Public Works and Government Services Canada Real Property Branch	Travaux publics et services gouvernementaux Canada Direction générale des biens immobiliers	Designed By Date Drawn By Date Reviewed By Date Approved By Date	Conçu par (yyyy/mm/dd) Dessiné par (yyyy/mm/dd) Examiné par (yyyy/mm/dd) Approuvé par (yyyy/mm/dd)	Project <b>SAFETY ACCESS TO TARMAC</b> OTTAWA, ONTARIO Project no. <b>PTS3043</b>	Drawing <b>WALL JUNCTION DETAIL</b> Drawing no. <b>SK-302.1</b>	Dessin No. du dessin <b>SK-302.1</b>
	Tender Project Manager	Submission Administrateur de projets	R. J. BOYLE 2015.11.04	R. J. BOYLE 2015.11.04	No. du projet	No. du dessin