



GWAL

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December 5, 2023

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69, rue Jean-Proulx unite #301
Gatineau (Quebec)
J8Z 1W2

ATTENTION: CHAXU BARIA, PROJECT MANAGEMENT ASSISTANT

**SUBJECT: ROOF DRAINAGE DECLARATION LETTER
770 BRONSON AVE. - 2025 KATASA - 22 STOREY APARTMENT BUILDING
BUILDING PERMIT NO. TBD
GWAL PROJECT NO. 2022-705**

Roof drains to be Watts adjustable flow control drains as per the attached cut sheets and set to the flow rate identified in the Stormwater Management Report. Refer to the Servicing and Stormwater Management Report and architectural plans identifying roof drain layout and flow storage volumes. Refer to the attached Flow Control Roof Drainage Declaration provided.

We trust the above is satisfactory.

Yours very truly,

GOODKEY, WEEDMARK & ASSOCIATES LTD.



Mark Sarasin, P.Eng. | Senior Associate, Sr. Mechanical Engineer

MS/sm

Enclosure(s): Flow Control Roof Drainage Declaration
Adjustable Flow Control Roof Drain Cutsheet

FLOW CONTROL ROOF DRAINAGE DECLARATION

THIS FORM TO BE COMPLETED BY THE MECHANICAL AND STRUCTURAL ENGINEERS RESPONSIBLE FOR DESIGN

Permit Application No.

Project Name:

770 BRONSON AVE. - 2025 KATASA - 22 STOREY APARTMENT BUILDING

Building Location:

770 BRONSON AVE., OTTAWA, ONTARIO

Municipality:

The roof drainage system has been designed in accordance with the following criteria: (please check one of the following).

- M1. Conventionally drained roof (no flow control roof drains used).
- M2. Flow control roof drains meeting the following conditions have been incorporated in this design:
- (a) the maximum drain down time does not exceed 24h,
 - (b) one or more scuppers are installed so that the maximum depth of water on the roof cannot exceed 150mm,
 - (c) drains are located not more than 15m from the edge of roof and not more than 30m from adjacent drains, and
 - (d) there is at least one drain for each 900 sq.m.
- M3. A flow control drainage system that does not meet the minimum drainage criteria described in M2 has been incorporated in this design.

PROFESSIONAL SEAL APPLIED BY:

Practitioner's Name:

Mark Sarasin, P.Eng., Sr. Associate

Firm:

Goodkey Weedmark & Associated Ltd.

Phone #:

(613) 816-0844

City:

Ottawa

Province:

Ontario



Mechanical Engineer's Seal

- S1. The design parameters incorporated into the overall structural design are consistent with the information provided by the Mechanical Engineer in M2. Loads due to rain are not considered to act simultaneously with loads due to snow as per Sentence 4.1.7.3 (3) OBC.
- S2. The structure has been designed incorporating the additional structural loading due to rain acting simultaneously with the snow load. The design parameters are consistent with the control flow drainage system designed by the mechanical engineer.

PROFESSIONAL SEAL APPLIED BY:

Practitioner's Name:

Jean-François Paris P.Eng., Associate Partner

Firm:

CIMA+

Phone #:

819-360-0360

City:

Gatineau

Province:

Québec



Structural Engineer's Seal



Adjustable Accutrol Weir

Tag: _____

Adjustable Flow Control for Roof Drains

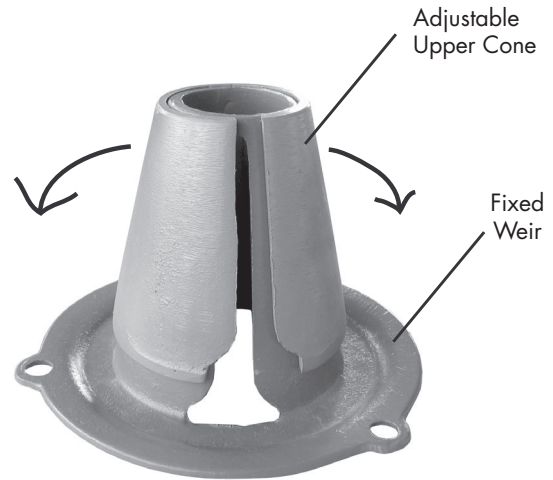
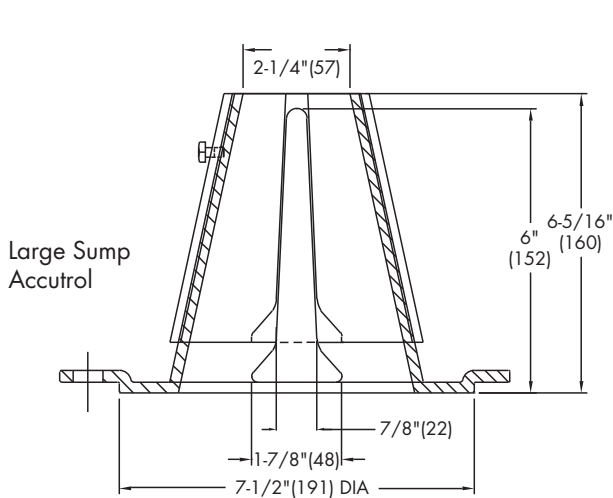
ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.
 Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2" of head will be restricted to 2-1/2 gpm per inch of head.

Therefore, at 3" of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be:
 [5 gpm (per inch of head) x 2 inches of head] + 2-1/2 gpm (for the third inch of head) = 12-1/2 gpm.



1/2 Weir Opening Exposed Shown Above

TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	1"	2"	3"	4"	5"	6"
	Flow Rate (gallons per minute)					
Fully Exposed	5	10	15	20	25	30
3/4	5	10	13.75	17.5	21.25	25
1/2	5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13.75	15
Closed	5	5	5	5	5	5

Job Name _____
 Job Location _____
 Engineer _____

Contractor _____
 Contractor's P.O. No. _____
 Representative _____

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