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September 17, 2014

**Subject: Optimized T-ingot size available from Alma**

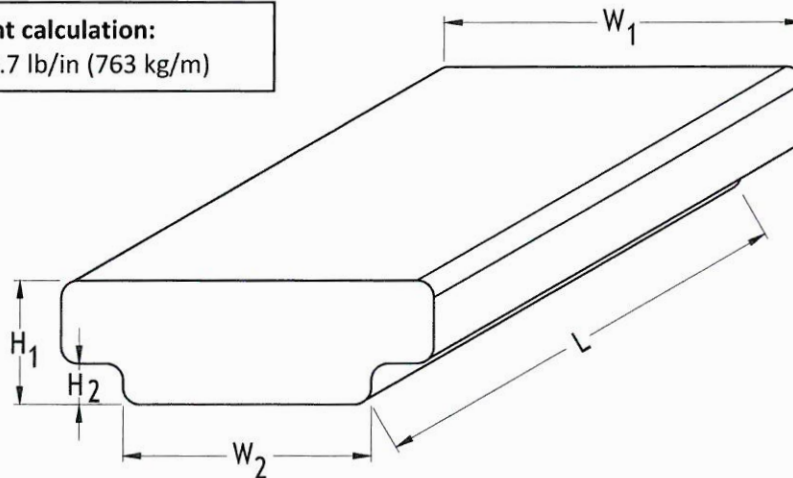
Dear Customer,

In a continuous improvement effort, Rio Tinto Alcan will start producing an optimized T-ingot size early 2015. Investing in the latest mold and casting technology, Alma Works has successfully demonstrated their ability to cast larger T-ingots while preserving an identical surface finish as today.

The optimized ingot height combined with your current ingot length offers the advantage of maximizing the ingot weight, hence, reducing the numbers of ingots handling. We invite you to review this opportunity and indicate any restrictions you may have. We would propose the new format to be implemented in Q1 2015.

	Current dimensions		New dimensions	
	mm	Inch (approx.)	mm	Inch (approx.)
Width <sub>1</sub>	876	34.5	876	34.5
<b>Height<sub>1</sub></b>	<b>291</b>	<b>11.5</b>	<b>355</b>	<b>14</b>
Width <sub>2</sub>	585	23	585	23
Height <sub>2</sub> Under Wing	96	3.5	96	3.5

**Ingot weight calculation:**  
 Length x 42.7 lb/in (763 kg/m)



Please do not hesitate to contact your sales manager should you have any questions.

Best regards,

Jerome Fourmann – Technical Manager Billet & Foundry Products, North America

# TABLE OF NEW T-INGOT SIZE - ALMA

version: September, 2014

## ALMA - New T ingot size of HCM

### WEIGHT FACTOR

14" x 34 1/2"      763 kg/m      42.7 lbs/in.

### LENGTH

	Length	Weight
Minimum HCM#1	927 mm (36 1/2")	707 kg (1558 lbs)
Minimum HCM#2	699 mm (27 1/2")	533 kg (1175 lbs)
Maximum Both HCM	1101 mm (43.3")	840 kg (1851 lbs)

### DIMENSIONS:

	mm	inches (approx.)
Width <sub>1</sub>	876	34 1/2
Height <sub>1</sub>	355	14
Width <sub>2</sub>	585	23
Height <sub>2</sub> under Wing	96	3 3/4

