

Project: Renovation of 18 Classrooms (UNHCR / INS Project, Phase1)
Facility: 6 October - 7 <sup>th</sup> District School, Class 01 G.F SHTC 01/09/2394

PO #	EGY01/2394
LOT	1 (# 9 Class)

BID #	RFQ 32 / 2020
DATE	14/01/2021

### SGIB Metal Work Calculation Sheet

<b>W</b>	Window SGIB	✓
<b>D</b>	Door SGIB	X
<b>C</b>	Closet SGIB	X

SGIB CALC Sheet #	<b>101 / W1 / 01 / 09</b>
SGIB Opening Dim.	W1, W-400 X H-200
SGIB Frame Dim.	W1, W-390 X H-186

<b>A</b>	Part A, DWG # 8
<b>B</b>	Part B, DWG # 8
<b>A</b>	Part A, DWG # 8

#### METAL-WORK CALCULATION - SECURITY GRATINGS & IRON BARS - PARTs A (W-390 X H-085)

SN	Section	Unit			Per Unit Size				Per Unit Weight		QTY	Weight (kg)
		Length	1	m	8X4	cm	2.5	mm	4.43	kg		
01	Hollow Rectangle	Length	1	m	8X4	cm	2.5	mm	4.43	kg	0.000	0.00
02	Hollow Square	Length	1	m	4X4	cm	2.0	mm	2.33	kg	9.340	21.76
03	Solid Bars (Rods)	Length	1	m	14	cm	14	mm	1.54	kg	21.560	33.20
04	Steel L Angel	Length	1	m	4X4	cm	4	mm	2.42	kg	0.000	0.00
05	Steel Flat Bar	Length	1	m	4	cm	8	mm	2.51	kg	0.000	0.00
06	Steel Sheet Plate	Area	1	m <sup>2</sup>	100X100	cm <sup>2</sup>	1	mm	7.85	kg	0.000	0.00
07	Decorative Element	NO.	1	PC	DWG	No	8		0.20	kg	29.000	5.80
<b>SA</b>	<b>Part(s) A - Weight; Kg</b>		<b>60.76</b>		<b>REPEATER</b>		<b>2</b>	<b>A(s)</b>	<b>Part(s) A - Weight; Kg</b>		<b>121.53</b>	

#### METAL-WORK CALCULATION - SECURITY GRATINGS & IRON BARS - PARTs B (W-390 X H-160)

SN	Section	Unit			Per Unit Size				Per Unit Weight		QTY	Weight (kg)
		Length	1	m	8X4	cm	2.5	mm	4.43	kg		
01	Hollow Rectangle	Length	1	m	8X4	cm	2.5	mm	4.43	kg	0.000	0.00
02	Hollow Square	Length	1	m	4X4	cm	2.0	mm	2.33	kg	0.640	1.49
03	Solid Bars (Rods)	Length	1	m	14	cm	14	mm	1.54	kg	0.320	0.49
04	Steel L Angel	Length	1	m	4X4	cm	4	mm	2.42	kg	0.000	0.00
05	Steel Flat Bar	Length	1	m	4	cm	8	mm	2.51	kg	0.000	0.00
06	Steel Sheet Plate	Area	1	m <sup>2</sup>	100X100	cm <sup>2</sup>	1	mm	7.85	kg	0.090	0.71
07	Decorative Element	NO.	1	PC	DWG	No	8		0.20	kg	2.000	0.40
<b>SB</b>	<b>Part(s) B - Weight; Kg</b>		<b>3.09</b>		<b>REPEATER</b>		<b>1</b>	<b>B(s)</b>	<b>Part(s) B - Weight; Kg</b>		<b>3.09</b>	

#### METAL-WORK CALCULATION - SECURITY GRATINGS & IRON BARS - PARTs C (W-xxx X H-xxx)

SN	Section	Unit			Per Unit Size				Per Unit Weight		QTY	Weight (kg)
		Length	1	m	8X4	cm	2.5	mm	4.43	kg		
01	Hollow Rectangle	Length	1	m	8X4	cm	2.5	mm	4.43	kg		0.00
02	Hollow Square	Length	1	m	4X4	cm	2.0	mm	2.33	kg		0.00
03	Solid Bars (Rods)	Length	1	m	14	cm	14	mm	1.54	kg		0.00
04	Steel L Angel	Length	1	m	4X4	cm	4	mm	2.42	kg		0.00
05	Steel Flat Bar	Length	1	m	4	cm	8	mm	2.51	kg		0.00
06	Steel Sheet Plate	Area	1	m <sup>2</sup>	100X100	cm <sup>2</sup>	1	mm	7.85	kg		0.00
07	Decorative Element	NO.	1	PC	DWG	No	8		0.20	kg		0.00
<b>SC</b>	<b>Part(s) C - Weight; Kg</b>		<b>0.00</b>		<b>REPEATER</b>			<b>C(s)</b>	<b>Part(s) C - Weight; Kg</b>		<b>0.00</b>	

<b>SGIB MAIN PARTs</b>	
kg	<b>124.62</b>

<b>FRAMEs &amp; TRIMs</b>	
kg	<b>0.00</b>

<b>CLADDs &amp; EXTRAs</b>	
kg	<b>0.00</b>

<b>SGIB Total Weight</b>	
kg	<b>124.62</b>

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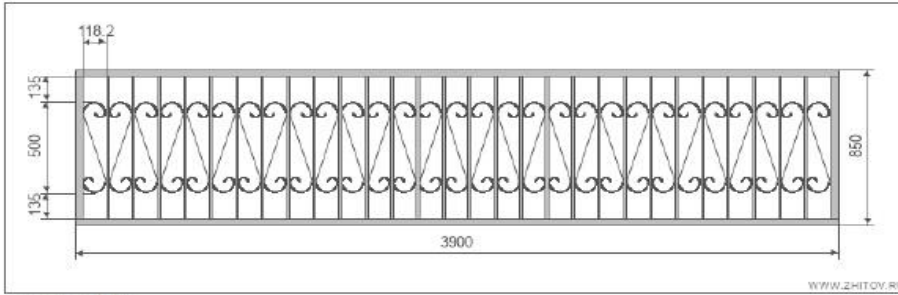
## SGIB Metal Work Calculation Sheet

<b>W</b>	Window SGIB	✓
<b>D</b>	Door SGIB	X
<b>C</b>	Closet SGIB	X

SGIB CALC Sheet #	<b>101 / W1 / 01 / 09</b>
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SGIB Frame Dim.	<b>W1, W-390 X H-186</b>

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<b>A</b>	Part A, DWG # 8

### PART A - CALCULATION OF METAL GRATING GRILLES & IRON BARS



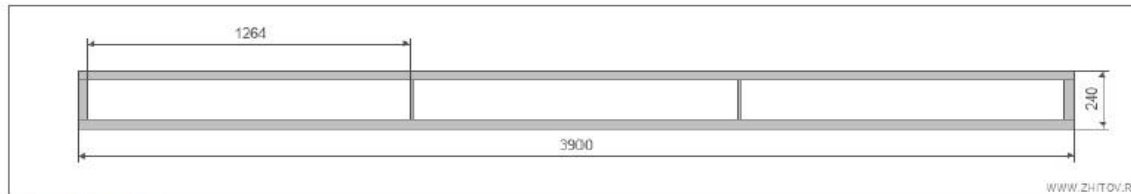
Drawing grids

Distance between vertical bars **118.2 mm**  
 Horizontal frame part **3900 mm**  
 Vertical frame part **770 mm**  
 Frame material Total **9340 mm**

The length of the vertical rods **770 mm**  
 Material rods Total **21560 mm**

Between the decorative elements **135 mm**  
 Decorative elements **29 pieces**

### PART B - CALCULATION OF METAL GRATING GRILLES & IRON BARS



Drawing grids

Distance between vertical bars **1264 mm**  
 Horizontal frame part **3900 mm**  
 Vertical frame part **160 mm**  
 Frame material Total **8120 mm**

The length of the vertical rods **160 mm**  
 Material rods Total **320 mm**