

Indiana Gratings Pvt. Ltd.

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MILL TEST CERTIFICATE

MTC NO. & DATE	: MT - 06 / 2020-21 : 25.07.2020
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[MV/Y0000505/20 : MV/Y0000428/20 : MV/Y0000434/20 : MV/Y0000431/20 : MV/Y0000474/20 : MV/Y0000449/20 : MV/Y0000534/20 : I-12161]
 [Heat no. - MV/C/116/20; MV/C/110/20; MV/C/112/20; MV/C/120/20; MV/C/119/20]

IMPORTER	: INDIANA GRATINGS PVT. LTD. C/O E.R. HAWTHORNE & CO. INC. 9370 WALLISVILLE ROAD, HOUSTON TX 77013, USA
P.O. NO. & DATED	: PO217289-11 Dated : 11.06.2020
BAYER	: SUPERIOR SUPPLY & STEEL PO BOX 2388 SULPHUR, LA 70664, USA
EXPORTER	: Indiana Gratings Pvt. Ltd., MUMBAI [Invoice no : IGPL/4221 :: 20.07.2020]
JOB NO. & DATE	: E-20/13
PACKING LIST NO.	: 0 1 0/20-21

SPECIFICATION'S :

PRODUCT : ELECTROFORGE GRATINGS

PRODUCT DETAILS	BEARING BAR	CROSS BAR	FRAME BAR	MESH	QTY.	SIZE	FINISH
	1" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	300 no's.	3' X 20'	GALVANIZED
1" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	150 no's.	2' X 20'	GALVANIZED	
1 1/2" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	352 no's.	3' X 20'	GALVANIZED	
1 1/2" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	46 no's.	2' X 20'	GALVANIZED	
1 1/2" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	48 no's.	3' X 20'	SELF COLOUR	
1 1/2" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	120 no's.	3' X 20'	GALVANIZED	
2" X 3/16" Serrated	7 mm sq. hotrl.	Open end	1-3/16" X 4"	60 no's.	3' X 20'	GALVANIZED	

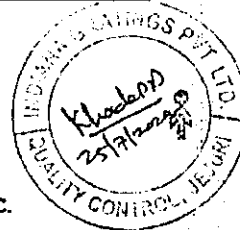
CHEMICAL ANALYSIS :

	1" X 3/16"(Sr.)	1 1/2" X 3/16"(Sr.)	1 1/2" X 3/16"(Sr.)	1 1/2" X 3/16" (Sr.)	2" X 3/16"(Sr.)	7 mm ² hotrl
CARBON	0.22%	0.19%	0.21%	0.16%	0.22%	0.079%
SULPHUR	0.029%	0.024%	0.026%	0.035%	0.036%	0.012%
PHOSPHORUS	0.033%	0.025%	0.032%	0.025%	0.032%	0.029%
SILICON	0.24%	0.23%	0.20%	0.26%	0.17%	0.21%
MANGANESE	0.72%	0.66%	0.64%	0.68%	0.64%	0.41%
CARBON EQUI.	0.33%	0.30%	0.32%	0.26%	0.31%	

MECHANICAL PROPERTIES :

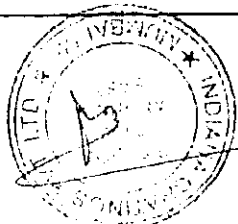
	1" X 3/16"(Sr.)	1 1/2" X 3/16"(Sr.)	1 1/2" X 3/16"(Sr.)	1 1/2" X 3/16" (Sr.)	2" X 3/16"(Sr.)	7 mm ² hotrl
Gauge Width	1"	1 1/2"	1 1/2"	1 1/2"	2"	7 mm
Thickness	3/16"	3/16"	3/16"	3/16"	3/16"	7 mm
Yield Stress [Mpa]	370	365	365	362	358	316.44
Ultimate Tensile Strength [Mpa]	526	530	533	519	500	431.72
Elongation	31.6%	29.8%	30.6%	31.5%	30.1%	44.08%
Former Diameter for Bend	1.5T = 7.1 mm	1.5T = 7.1 mm	1.5T = 7.1 mm	1.5T = 7.1 mm	1.5T = 7.1 mm	2T = 14 mm
Bend test	180 DEG.	180 DEG.	180 DEG.	180 DEG.	180 DEG.	180 DEG.

Material conforms to ASTM A 36
 Hot Dip Galvanising conforms to ASTM A 123
 Gratings Manufactured as per NAAMM MBG-531-00



For - IGPL Q.C.

FORM NO. 1 QCF/37/00



FACTORY: Plot No. D-5, D-7, D-9, MIDC, Jejuri 412 303, Dist. Pune, Maharashtra, India.