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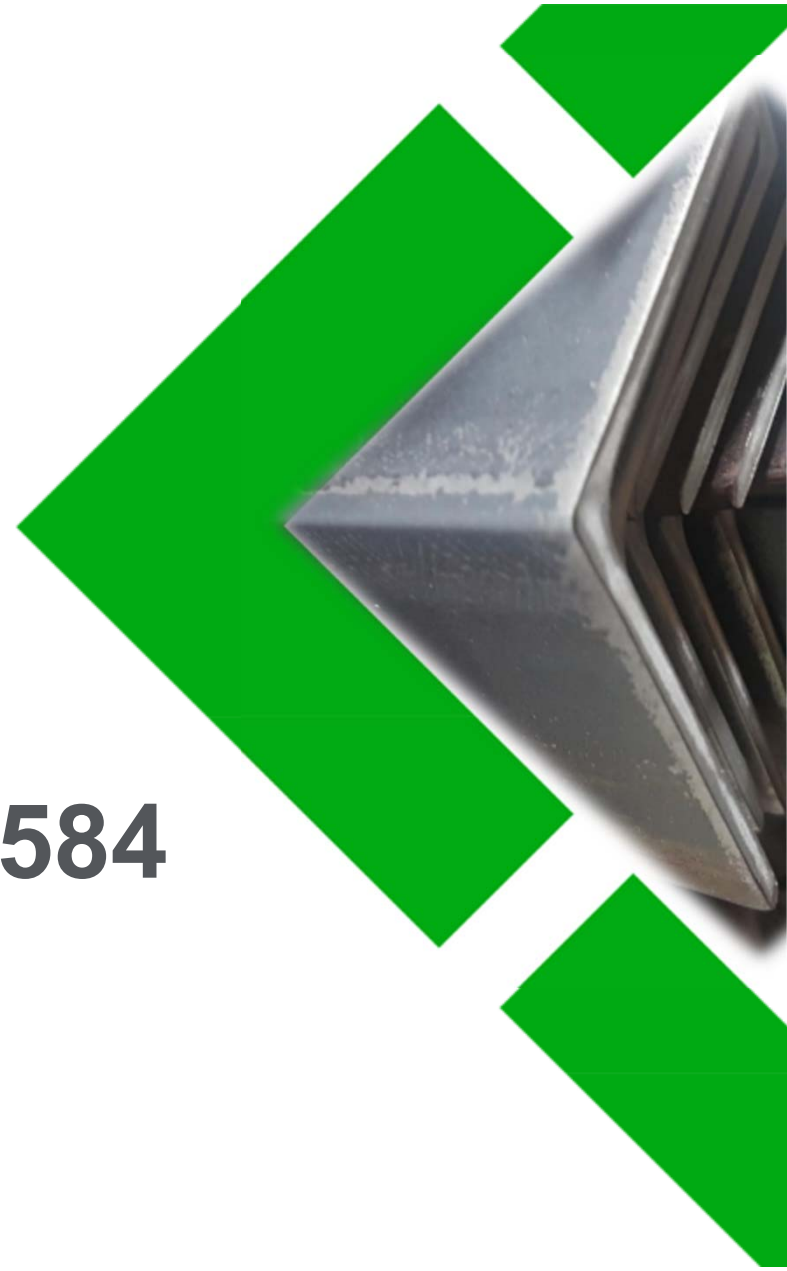
Building futures through sustainable steel

Anti-dumping Investigation 584

Merchant Bar exported from Taiwan

Discussion – Feng Hsin model matching (EPR584/029)

8 March 2022



Standards

Australia:

- Minimum yield strength 300MPa. All readily weldable.

	Australia/ New Zealand Standard
STANDARD DESCRIPTION	Structural Steel Part 1: Hot-rolled bars and sections
STANDARD	AS/NZS3679.1:2016
GRADES defined by the Standard	300
	350
	300L0
	300L15
	300S0
	350L0
	350L15
	350S0

Taiwan:

- Minimum yield strength 205MPa. Rolled Steels for General Structure NOT READILY WELDABLE (no chemistry spec)

	Chinese and Japanese Standards prevalent in Taiwan/Asia		
STANDARD DESCRIPTION	Rolled Steels for General Structure	Rolled steels for welded structure	Rolled steels for building structure
STANDARD	CNS 2473 JIS G3101	CNS 2947 JIS G3106	CNS 13812 JIS G3136
GRADES defined by the Standard	SS330	SM400A	SN400A
	SS400	SM400B	SN400B
	SS490	SM400C	SN400C
	SS540	SM490A	SN490B
		SM490B	SN490C
		SM490C	
		SM490YA	
		SM490YB	
		SM520B	
		SM520C	
	SM570		

Feng Hsin: Grades (Exporter Visit Briefing)

(Exporter Visit Briefing EPR584/018)

- Grades considered to be Grade 250, Grade 300 and Grade 350 not disclosed by Feng Hsin
- Correct classification into MCC subcategory Grade 250, Grade 300 and Grade 350 to be verified

Standards Minimum Yield Strength MCC Grades

SS400	235-245 min	Grade 250 Min Yield Strength < 275MPa
SM400A	235-245 min	
A36	250min	
S235JR	225-235 min	
S275JR	265-275 min	Grade 300 =>275, <330 Mpa
SS490	275-285 min	
G300	300-320 min	
SM490A	315-325 min	
SN490B	325-445 min	Grade 350 Min Yield Strength 330MPa and greater
SS540	390-400 min	
A572GR50	345 min	
A709GR50	345 min	
A572GR65	450 min	
S355JR	345 - 355 min	

InfraBuild's view of how Feng Hsin's Grades as per brochure should be categorised across MCC Grades



Grades per MCC Grade category based on Standards' minimum yield strengths as per Feng Hsin's Product Brochure

規格 (Spec.)	材質記號 (Symbol)	降伏強度 (Y.S) N/mm ² (ksi)	
		t ≤ 16	16 < t ≤ 40
CNS 2473 JIS G3101	SS400	245min	235min
	SS490	285min	275min
	SS540	400min	390min
CNS 2947 JIS G3106	SM400A	245min	235min
	SM490A	325min	315min
CNS 13812 JIS G3136	SN490B	325~445 (降伏比80%以下)	
ASTM A36	A36	250 (36)min	
ASTM A572	Grade50 type 2	345 (50)min	
ASTM A709		450 (65)min	
ASTM A572	Grade65 type 2	450 (65)min	
EN 10025-2	S235JR, S235J0, S235J2	235min	225min
	S275JR, S275J0, S275J2	275min	265min
	S355JR, S355J0, S355J2, S355K2	355min	345min
AS 3679.1	GR300	t < 11	11 ≤ t ≤ 17
		320min	300min

Feng Hsin Verification Report

Feng Hsin steel standard	MCC grade category
1015K	250
1050AK	350
1050K	350
A36	250
A572G50	350
GRA	250
S45C	350
S55C	350
S55CLGW	350
SCM440H	350
SD420	350
SM400A	250
SM490A	300
SN490B	300
SS330	250
SS400	250
SS540	350
SUM23	250
SUP9	350
GR300	300
GR350	350
GR350L0	350

Table 11 – The relationship between product steel standards and MCC grade (yield strength MPa)

	Commission's assessment of Grade grouping in Table 11			The Feng Hsin Grade Grouping			
	Grade			"Standard"			
Characteristic property for comparison	Standard Minimum Yield Strength < 275MPa	Standard Minimum Yield Strength ≥ 275 and < 330MPa	Standard Minimum Yield Strength ≥ 330MPa	No physical property or characteristic for comparison			
Identifier	250	300	350				
	1015K A36 GRA SM400A SS330 SS400 SUM23	GR300 SM490A SN490B	GR350 GR350L0 A572G50 SD420 SS540 SUP9 1050AK 1050K S55C SCM440H	A36 GR300 GRA SM400A SS330 SS400	A572G50 GR350 SD420 SM490A SS540	GR350L0 SN490B	1015K S45C S55CLGW SUM23 SUP9 1050AK 1050K S55C SCM440H

Standard (MCC category proposed by Feng Hsin)

The company provided price breakdowns using export and domestic price lists to demonstrate the standard premiums. The verification team also used the export and domestic sales listings to verify the standard premiums.



Standards

The Feng Hsin Grade Grouping			
"Standard"			
No physical property or characteristic for comparison			
A	B	C	D
A36	A572G50	GR350LO	1015K
GR300	GR350	SN490B	S45C
GRA	SD420		S55CLGW
SM400A	SM490A		SUM23
SS330	SS540		SUP9
SS400			1050AK
			1050K
			S55C
			SCM440H

4.3 化學成份及機械性質 (Chemical and Mechanical Requirements)

4.3.1 化學成份 (Chemical Requirements)

規格 (Spec.)	種類符號 (Symbol)	化學成份 (Composition) %						
		C	Mn	P	S	Si	B	
CNS 2473	SS330	-	-	0.050max	0.050max	-	0.0007max	
	SS400							
	SS490							
	SS540	0.30max	1.60max	0.040max	0.040max	-	0.0007max	
CNS 2947	SM400A	0.23max	2.5*Cmin	0.035max	0.035max	-	0.0007max	
	SM490A	0.20max	1.65max	0.035max	0.035max	0.55max	0.0007max	
CNS 13812	SN400B	0.20max	0.60~1.50	0.030max	0.015max	0.35max	0.0007max	
	SN490B	0.18max	1.65max	0.030max	0.015max	0.55max	0.0007max	
JIS G3101	SS330	-	-	0.050max	0.050max	-	-	
	SS400							
	SS490							
	SS540	0.30max	1.60max	0.040max	0.040max	-	-	
JIS G3106	SM400A	0.23max	2.5*Cmin	0.035max	0.035max	-	-	
	SM490A	0.20max	1.65max	0.035max	0.035max	0.55max	-	
JIS G3136	SN400B	0.20max	0.60~1.50	0.030max	0.015max	0.35max	-	
	SN490B	0.18max	1.65max	0.030max	0.015max	0.55max	-	
JIS G4051	S45C	0.42~0.48	0.60~0.90	0.030max	0.035max	0.15~0.35	-	
	S50C	0.47~0.53	0.60~0.90	0.030max	0.035max	0.15~0.35	-	
ASTM A36	A36	(t ≤ 20)	0.26max	-	0.040max	0.050max	0.40max	-
		(20 < t ≤ 40)	0.27max	0.60~0.90	0.040max	0.050max	0.40max	-
ASTM A572	Grade 50 type 2		0.23max	1.35max	0.040max	0.050max	0.40max	-
	Grade 65 type 2		0.26max	1.35max	0.040max	0.050max	0.40max	-
ASTM A709	Grade 50 type 2		0.23max	1.35max	0.040max	0.050max	0.40max	-
BS 4360	GR43A		0.25max	1.60max	0.050max	0.050max	0.50max	-
AS/NZS 3679.1	GR300		0.25max	1.60max	0.040max	0.040max	0.50max	-
	GR350LO		0.22max	1.60max	0.040max	0.040max	0.50max	-

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Model Control Codes (Initiation to verification)

CATEGORY																								
Original MCCs (as per initiation Notice)										MCCs specific to Feng Hsin (added by Commission at verification)														
1		2						3			4				5						6			
											"Standard"				Flats dimensions						Angles dimensions			
Quality		Shape						Grade																
Prime	prime	Flats	angles	angles	flange	flange	250	300	350	A	B	C	D	A	B	C	D	E	F	A	B	C		
EXPORT MCCs (Table 12)	1																							
	3																							
	5																							
	2																							
	4																							
	8																							
	6																							
	7																							
	9																							
	10																							
	11																							
	12																							

MCCs for reconsideration

The “Standards” classification of grade grouping for Feng Hsin

- Doesn't allow for consistent approach across exporters (or other future exporting countries)
- Not based on any physical characteristic shown to affect price.
- Circumstances of domestic sales of export models are not taken into account (“leftover” sales at a discount).
- If uncorrected – sets precedent for all future reviews and continuation inquiries relating to this exporter.
- Standards include a number of physical characteristics but are NOT physical characteristics themselves.

Model Control Codes (Initiation Notice)

Item	Category	Sub-category	Identifier	Sales Data	Cost data
1	Quality	Prime	P	Mandatory	N/A
		Non-prime	N		
2	Shape	Flats	F	Mandatory	Mandatory
		Equal angles	E		
		Unequal Angles	U		
		Parallel flange channels	P		
		Tapered flange channels	T		
3	Grade - Minimum yield strength specified by the Standard the product is certified to be produced to (measured in megapascals (MPa) or Newton per square millimetre (N/mm ²)) ⁶	Less than 275	250	Mandatory	Mandatory
		Equal to or greater than 275 and less than 330	300		
		Equal to or greater than 330	350		

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Thank You

