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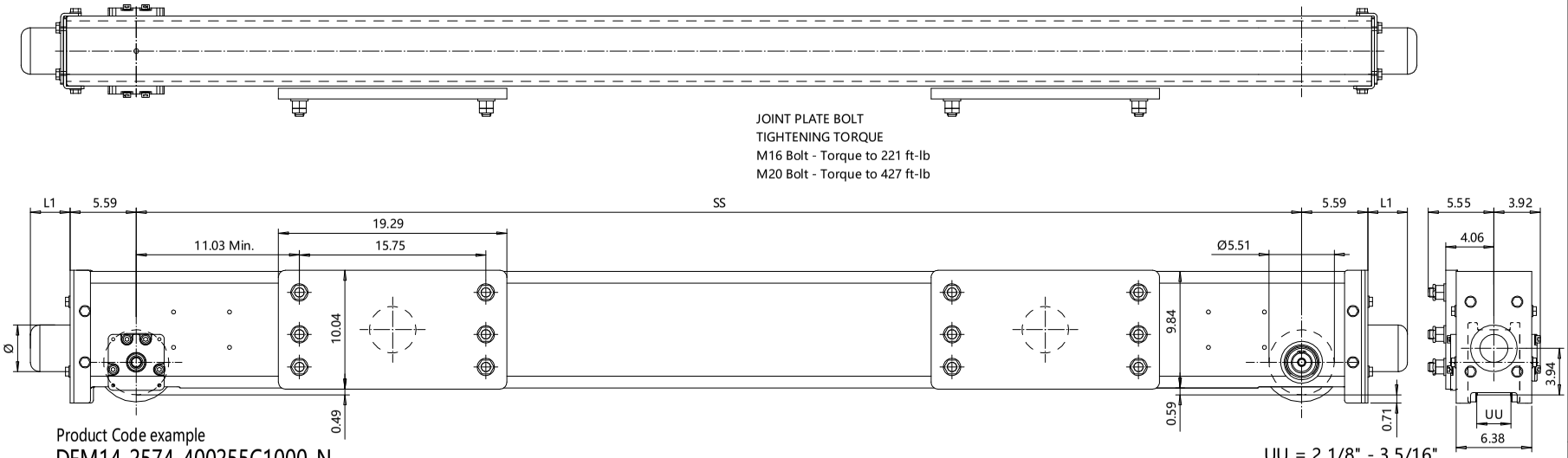
Included in				

Rev	Explanation	Date	Revised by	Checked by

DFM14 END TRUCK SIDE JOINT PLATE TYPE EBN14-400



JOINT PLATE BOLT
TIGHTENING TORQUE
M16 Bolt - Torque to 221 ft-lb
M20 Bolt - Torque to 427 ft-lb

UU = 2 1/8" - 3 5/16"

Product Code example

DFM14-2574-400255C1000-N

- N=standard, E=Special
- -primer paint, color code
- Joint plate distance (pin to pin with double DG girders; driving wheel to pin with asymmetrical single SG girder)
- Buffer type
- Joint plate height (JPH)
- Joint plate length (pin to pin) (JPL)
- - =1WD, D =2WD (Number of driving wheels/end carriage)
- Wheel groove =UU
- Wheel base =SS (type)
- - =std, C =asymmetrical joint
- Type of end carriage

The wheel loads listed are only a guideline. The max. wheel load listed is based on the structural integrity of the frame and load placement, and it does not take into account permissible wheel loading or bearing life. SG load placement is at the center, and DG load placement is for a trolley gage of 1400 mm [55 1/8"].
The permissible dynamic wheel load listed is based on assumptions that the bridge speed is 40 m/min [130 fpm], end truck duty is Fem 2m, and the runway rail as listed.
The actual wheel load should not exceed the permissible wheel load. If the permissible dynamic wheel load is greater than the maximum dyn wheel load, then the actual wheel load cannot exceed maximum dyn wheel load.
Dyn wheel load = 1.15 x Static wheel load

Buffer type	L1	Ø
A	2.09"	2 1/2"
B	2 11/16"	3 3/16"
C	3 5/16"	3 15/16"
D	4 1/8"	4 15/16"
K	3 3/16"	3 3/16"
G	3 15/16"	3 15/16"
E	5 15/16"	3 15/16"
M	4 15/16"	4 15/16"
F	7 1/2"	4 15/16"
H	6 15/16"+3 15/16"	6 5/16"
P	9 7/16"+3 15/16"	6 5/16"
A, B, C, D rubber		
K, G, E, M, F, H, P polyurethane		

Wheelbase	SS	Max dyn whl load, (kip)		Perm dyn whl load, (kip)			Approx. Wgt / Trk (lb)	
code		SG	DG	ASCE 30	ASCE 40	ASCE 60	SG	DG
16	5'-3"	10.575	12.375	8.46	9.675	13.05	364	463
20	6'-6 3/4"	10.575	12.375	8.46	9.675	13.05	414	470
25	8'-2 7/16"	10.575	12.375	8.46	9.675	13.05	476	531
32	10'-4"	10.575	12.375	8.46	9.675	13.05	558	613
35	11'-5 13/16"	9	12.375	8.46	9.675	13.05	602	657
40	13'-1 1/2"	7.2	8.325	8.46	9.675	13.05	668	723

Pos	Description	Specification	Id	Drawing
ETTVPH Design	ETTVPH Chd	Appd	Ref Drawing	
2008-10-14 Date	END TRUCK			1 : 6
SLEQDOCV Owner Dept	OUTLINE DRAWING			Folder EBN14
DEMAG	DFM14-EBN			
	DFM14 END TRUCK			Issue 08/2025