

11450.2A Ref. Section	RCDR Topic	RCDR Number
2-4.2.1(f), 2-7.1(t)	Allowance for aluminum carrier ring friction discs for brakes	RCDR 23-004

QUESTION

Q1: NAVCRANECENINST 11450.2A Section 2-4.2.1(f) requires brake lining backing plates to be steel or ductile cast iron. Section 2-7.1(t) for Special Purpose Service cranes requires hoist components that transmit braking torque to be steel. There are no known end-mounted full-face disc brake manufacturers that can provide brakes that meet all 11450.2A material requirements including having steel or ductile cast iron friction discs. Stearns manufactures armature actuated brakes (AAB) that meet all material requirements, except the carrier ring friction disc is manufactured from an aluminum plate bonded to a non-metallic friction material. Is this type of carrier ring friction disc acceptable?

ANSWER

A1: Based on the lack of commercially available brakes that meet the material requirements of 11450.2A Sections 2-4.2.1(f) and 2-7.1(t), the use of aluminum carrier ring friction discs is approved.