

FRB Review of Expansion Joints Project First Draft Failure Mode and Effect Analysis (FMEA)

Component	Failure Mode	probability of occurrence	severity of failure	probability of detection	Risk Priority Number (RPN)
horizontal pins holding trains together	Single pin fails	5	6	7	210
	Double pin failure adjacent pins, simultaneously	2	10	10	200
	Double pin failure adjacent pins, period of time between failure	5	10	10	500

Notes: scale of 1 to 10 used for each column