Brake Calculations Questionnaire

		Standard Car Standard Brakes	Modified Car Alcon Brakes
Vehicle Data			
Gross Vehicle Weight	kg		
Wheelbase	mm		
Height of Centre of Gravity	mm		
Centre of mass - static	% front		
Tyre rolling radius	mm		
Tyre coefficient of friction			
Brake Actuation System Data			
Front master cylinder diameter	mm		
Rear master cylinder diameter	mm		
Master cylinder stroke	mm		
Pedal ratio			
Booster ratio			
Front Brake Data			
Disc outside diameter	mm		
Disc inside diameter	mm		
Disc effective radius	mm		
Disc thickness	mm		
Disc air gap	mm		
Calipers per axle			
Caliper type (Fist or opposed piston)			
No. of pistons per caliper (effective)			
Piston 1 diameter	mm		
Piston 2 diameter	mm		
Piston 3 diameter	mm		
Pad coefficient of friction			
Rear Brake Data			
Disc outside diameter	mm		
Disc inside diameter	mm		
Disc effective radius	mm		
Disc thickness	mm		
Disc air gap	mm		
Calipers per axle			
Caliper type (Fist or opposed piston)			
No. of pistons per caliper (effective)			
Piston 1 diameter	mm		
Piston 2 diameter	mm		
Piston 3 diameter	mm		
Pad coefficient of friction			