CAT 745C

The following visibility study and ISO 5006 test has been carried out to ensure compliance when a CAT 745C mirror arms have been modified to allow the machine to travel through a quarry hopper.

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CAT 745C

Machine Visibility
Direct Vision
1 Metre High

Area of blind spot
at 1metre high

Machine Reference Points
y = Machine Left
x = Machine Front
w = 1st Rear Wheel Centre

Distances blind spot
areas intersect machine
reference lines
A=3.6m
B=1.9m
C=5.75m

y
A
B
x
C
w
*

Area of mirror vision
at ground level

□ =0.5m

Area of vision
through
camera system

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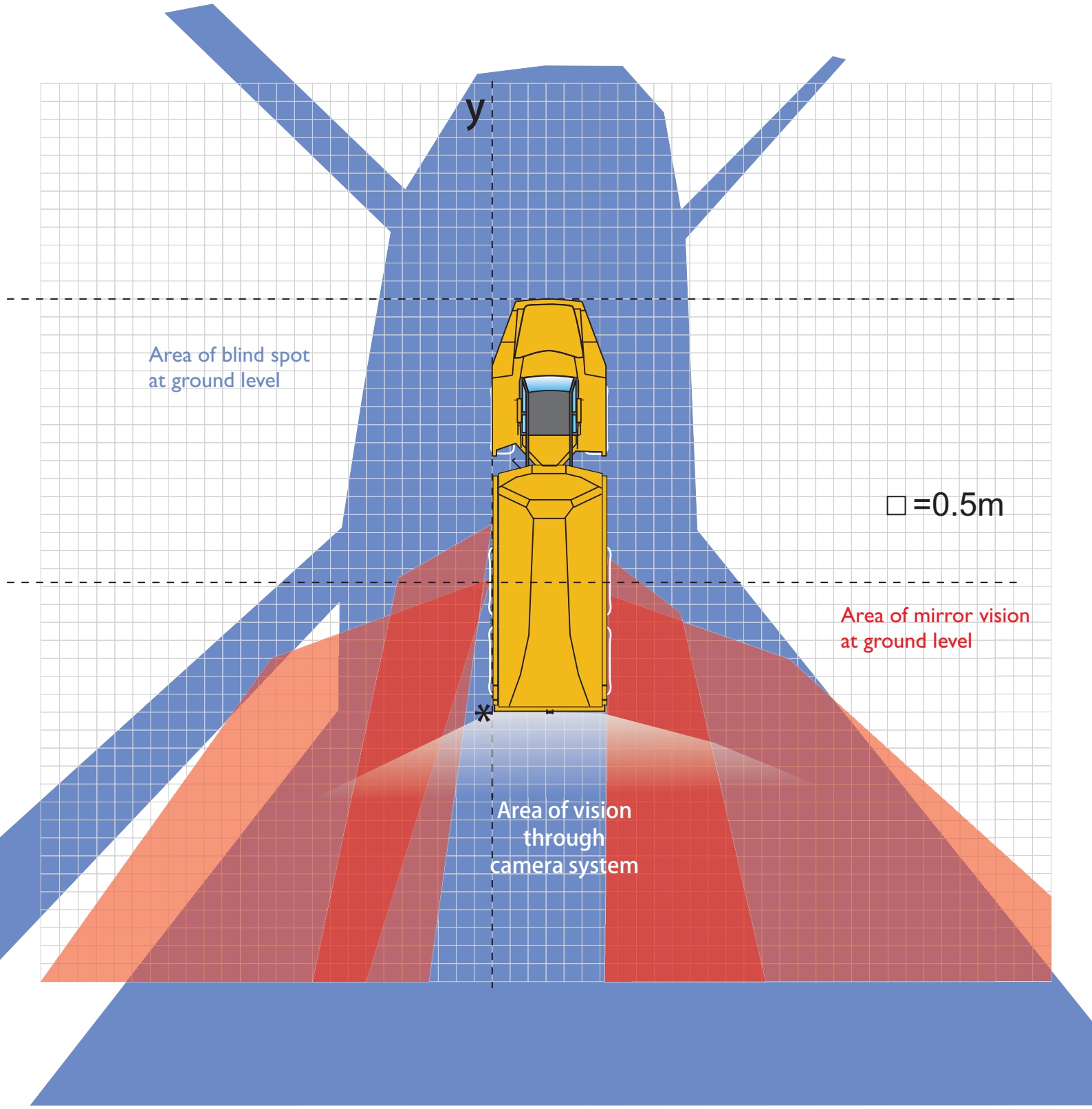
CAT 745C

Machine Visibility
Direct Vision
Ground Level



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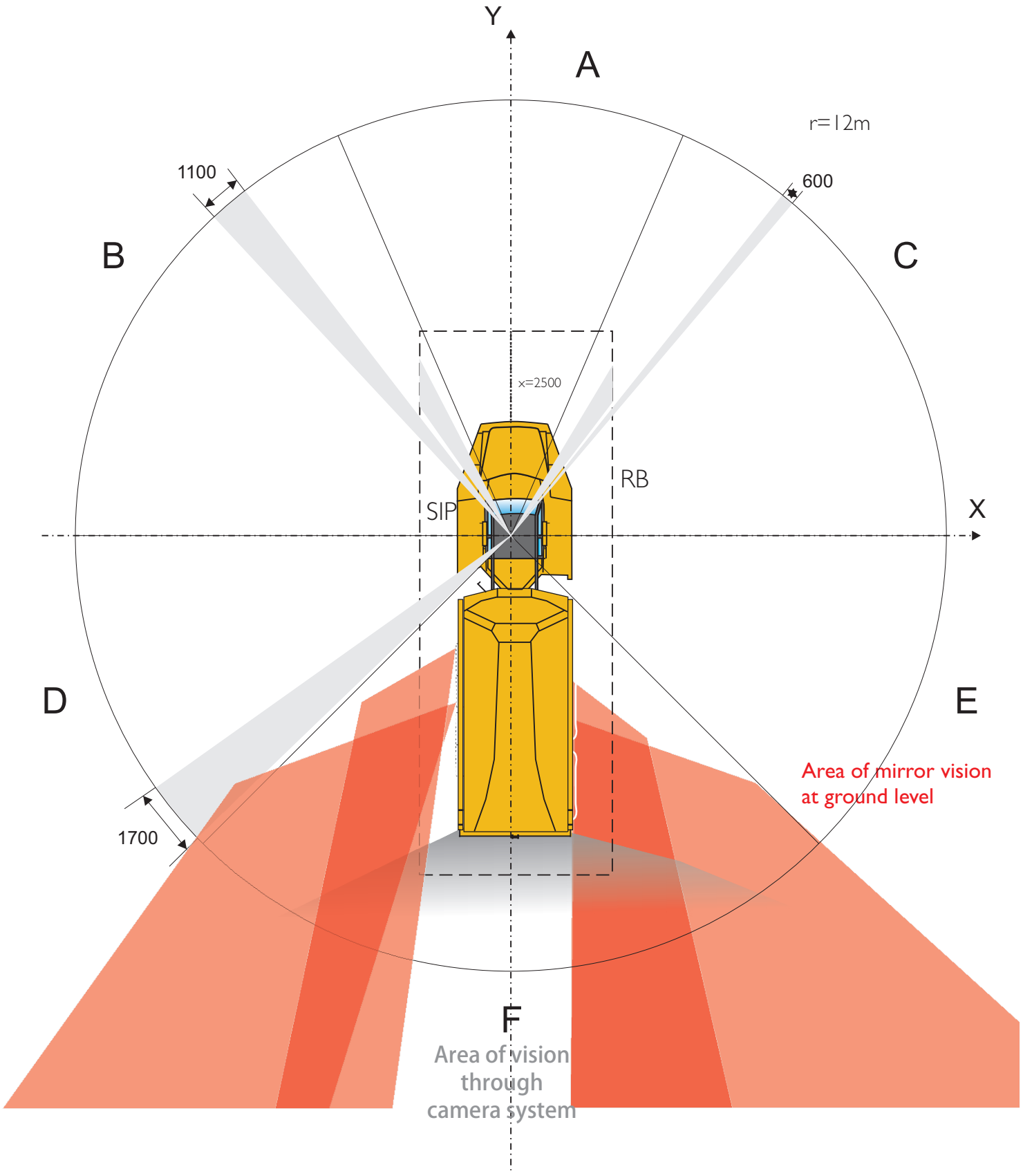
CAT 745C

Machine Visibility ISO5006



This ISO5006 test has been created by computer software, extrapolated from a standard Spillard 1m visibility study no measurements have been taken as laid out in the test criteria for ISO5006.

All measurements in millimetres unless stated otherwise.

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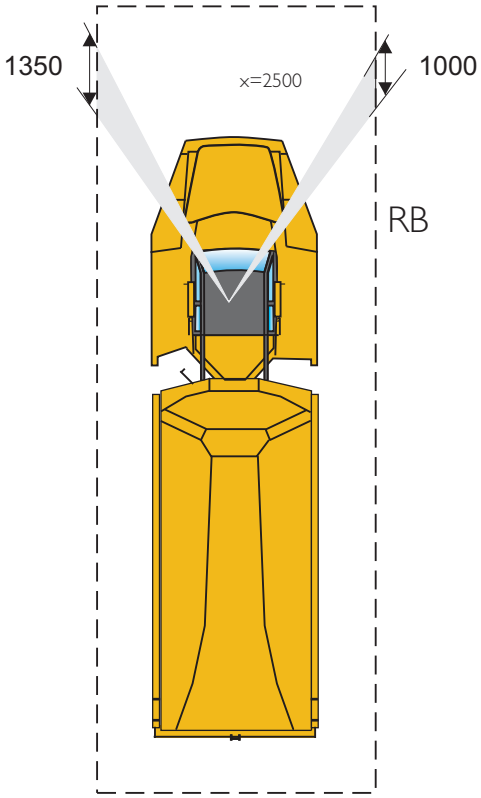
CAT 745C

Machine Visibility
ISO5006



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CAT 745C

Machine Visibility
ISO5006
Conclusion

Conclusion

Using the extrapolated data to complete the ISO5006 test the machine fails the ground level section in sector D with a measured mask of 1700mm, allowed masking in this sector is 1- 700mm and 1-1300mm, it is my opinion that if the mirrors were in the original configuration as supplied by the manufacturer the machine would comply with ISO5006.

Compliance may be achieved by installing an additional convex mirror, however I do also have concerns around the area at the rear of the body marked * on vision studies, the machine complies in this section however there is a blind spot of 800mm, due to the way this is created the operator will never be aware it exists therefore either additional documentation will be needed or the blind spot should be removed through additional technology i.e. a camera system.

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