UNIVERSITY OF
WEST LONDON

Independent Load Testing Report

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Produced by
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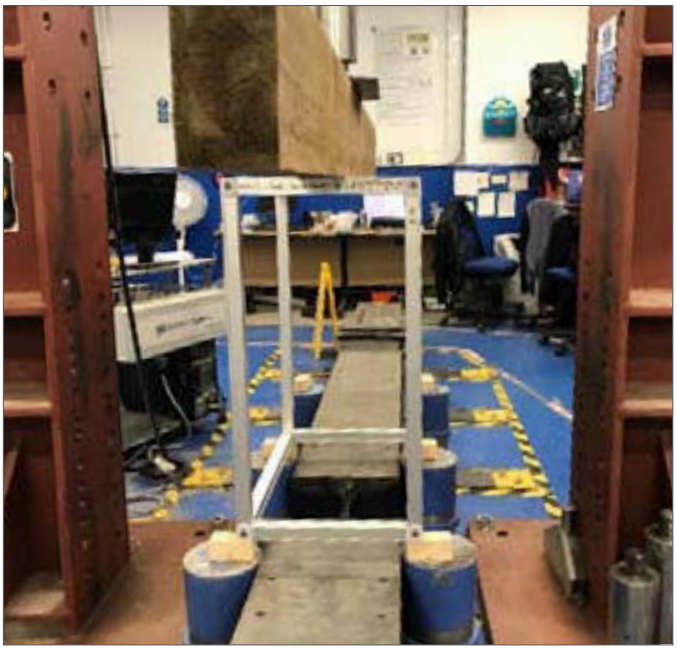
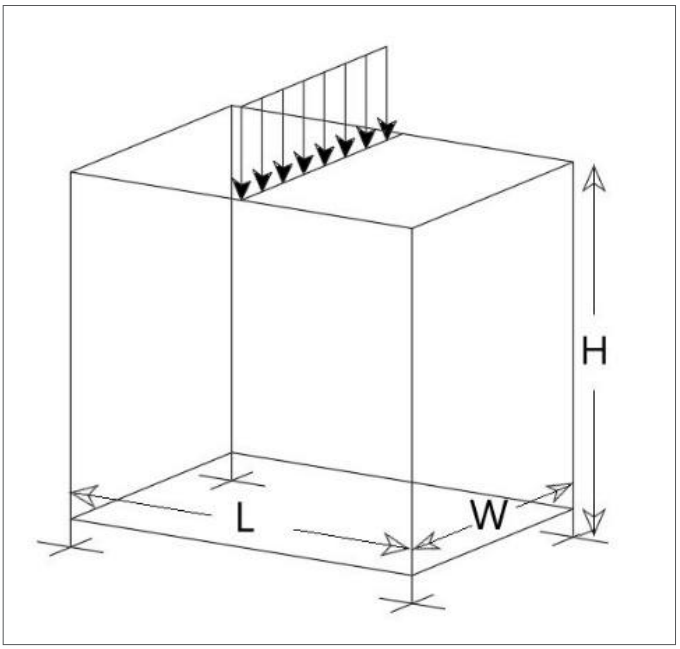
TEST 1

Axial line load Double frame (Test 1 of 3)
L = 367.5mm
H = 735 mm
W = 612 mm

PICTURE (TEST SETUP)





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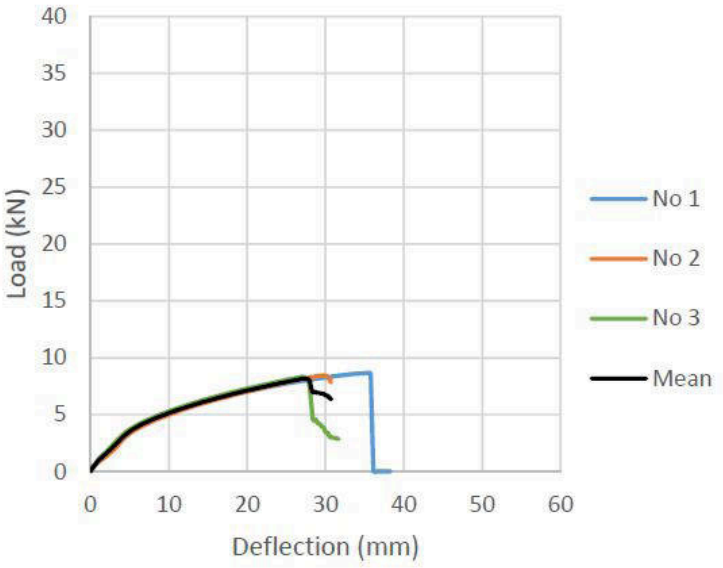


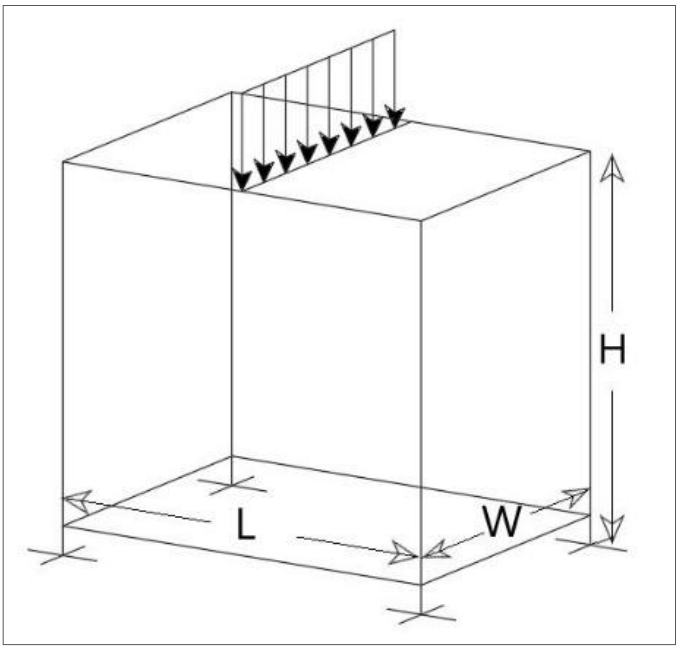
COMMENT

Total line load should not exceed 3kN
(300 Kilograms / 674.4 Lbs).

TEST 2

Axial line load Double frame
Test 2 of 3
L = 490mm
H = 980 mm
W = 980 mm

PICTURE (TEST SETUP)



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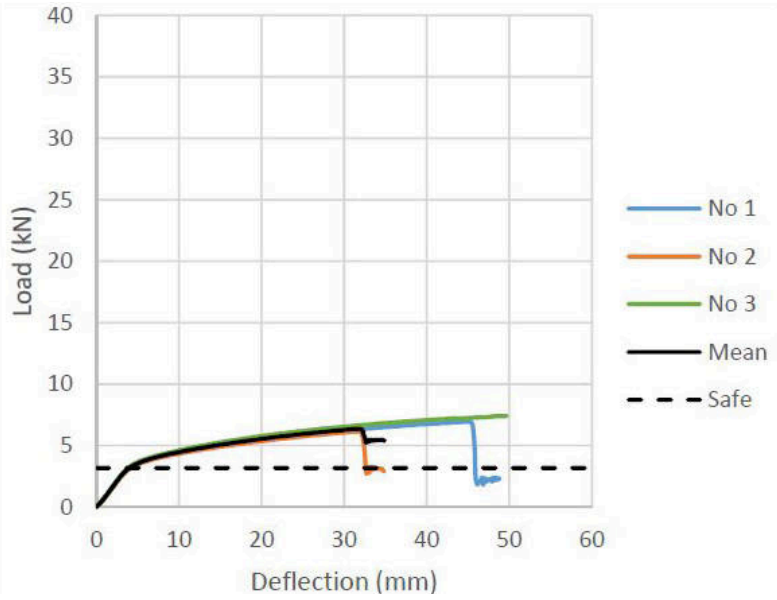


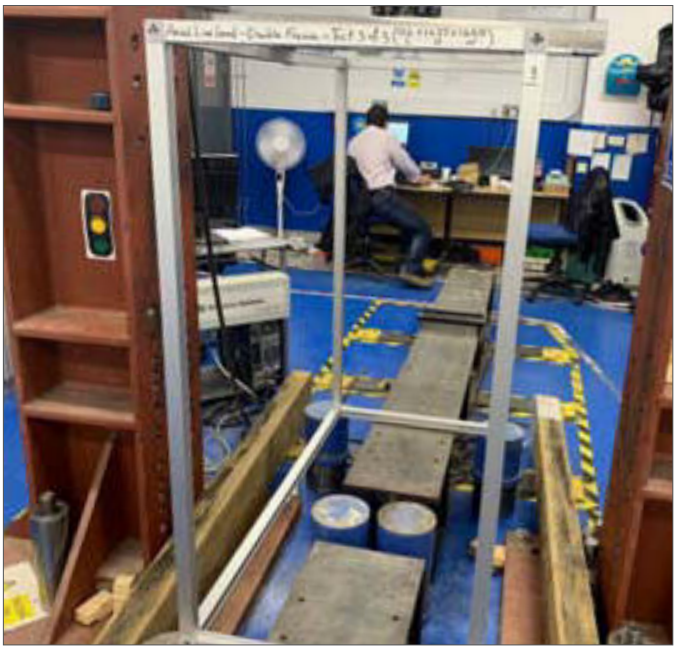
COMMENT

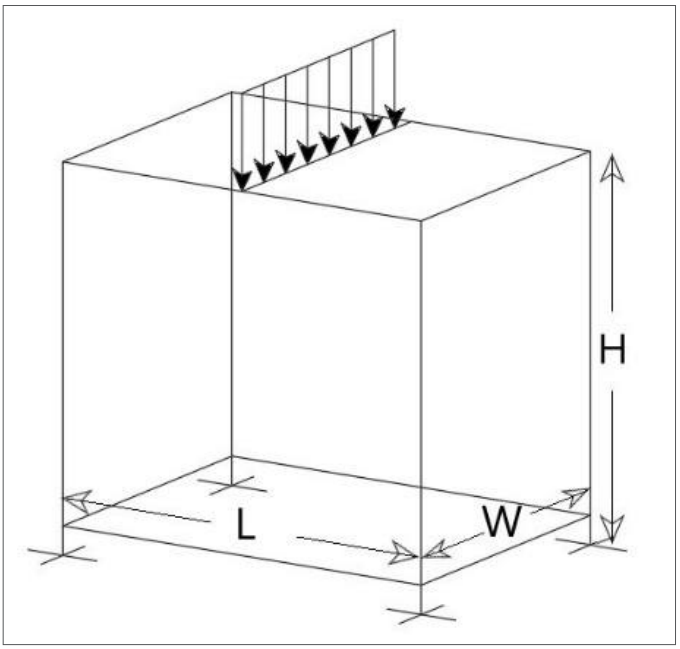
Total line load should not exceed 3kN
(300 Kilograms / 674.4 Lbs).

TEST 3

Axial line load Double frame
Test 3 of 3
L = 1225mm
H = 1225 mm
W = 612mm

PICTURE (TEST SETUP)





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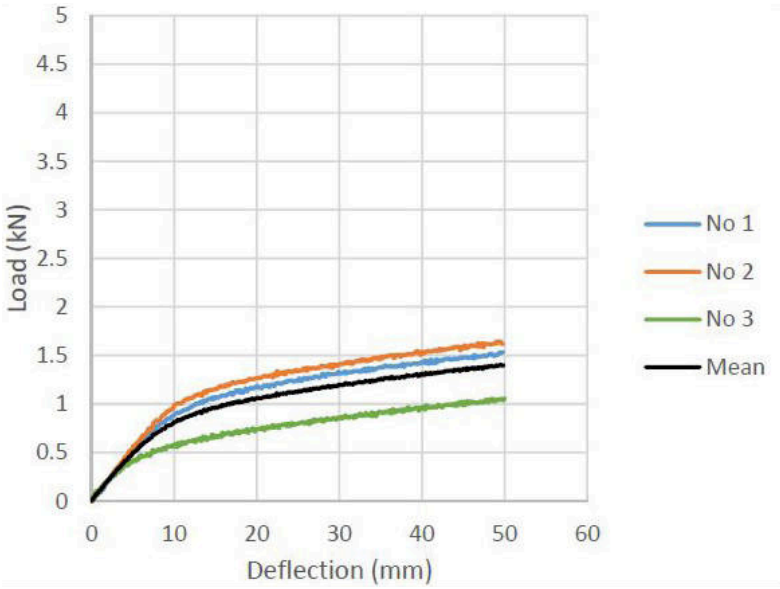


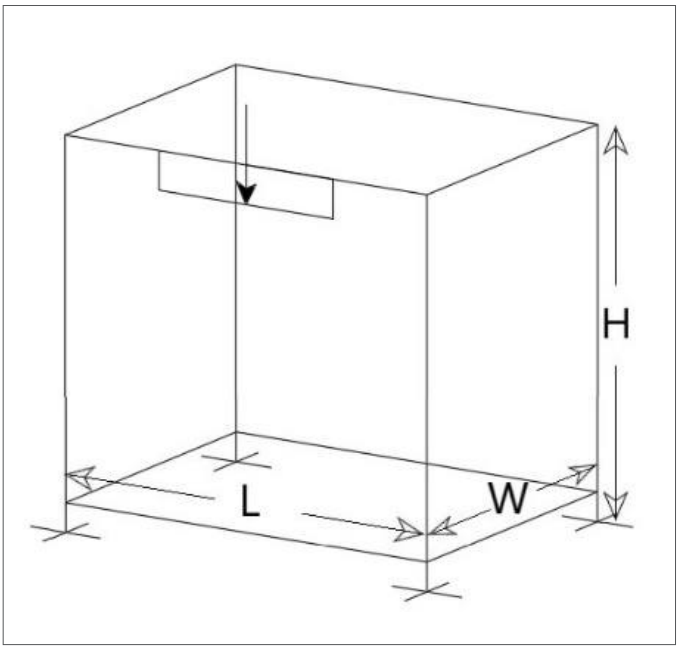
COMMENT

Total line load should not exceed 0.4kN
(40 kilograms / 89.9 Lbs)

TEST 4

Axial eccentric point load Double frame
Test 1 of 3
L = 367.5mm
H = 735 mm
W = 612 mm

PICTURE (TEST SETUP)



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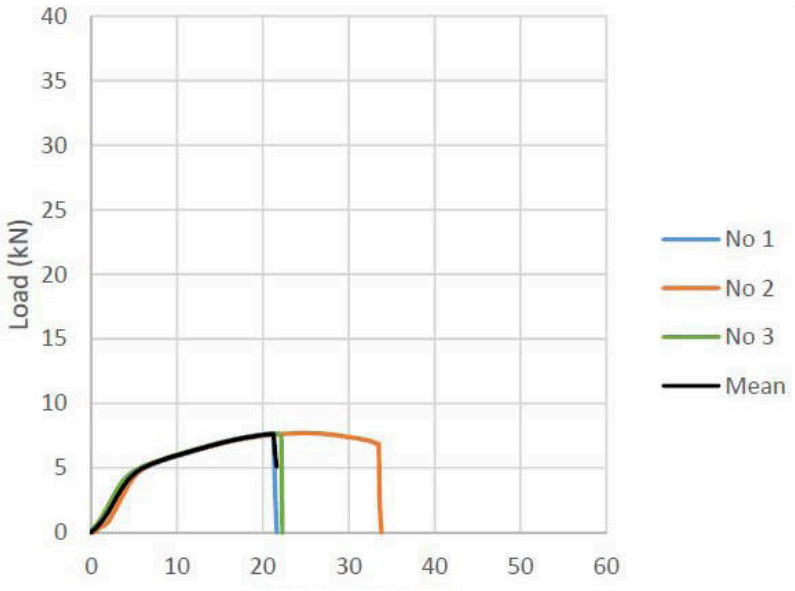


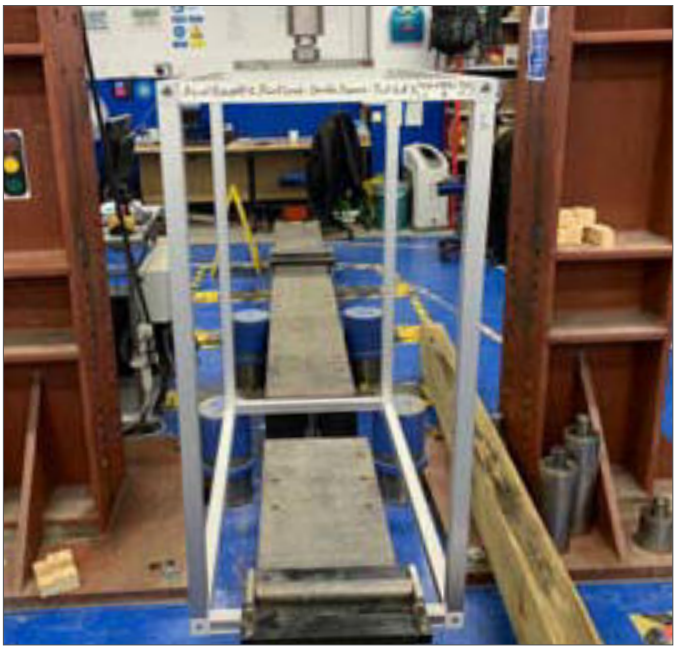
COMMENT

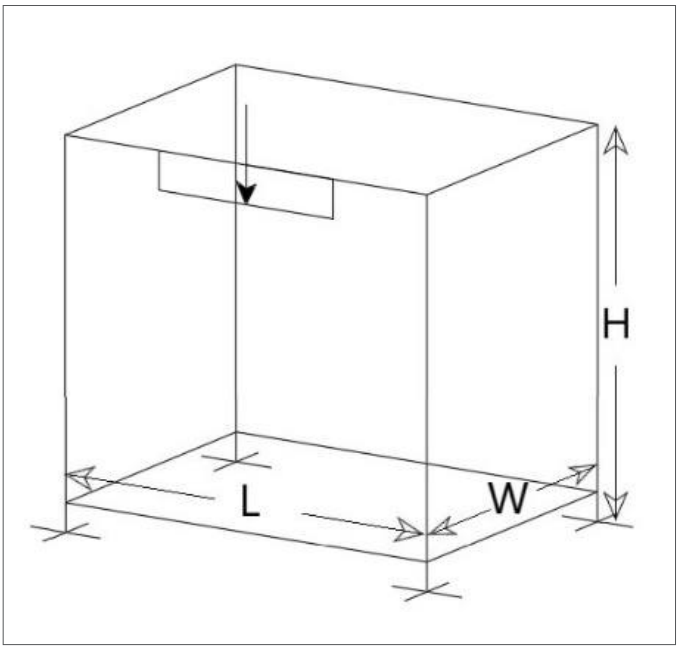
Total point load should not exceed 2kN
(200 kilograms / 449.6 Lbs).

TEST 5

Axial eccentric point load Double frame
Test 2 of 3
L = 490mm
H = 980 mm
W = 980 mm

PICTURE (TEST SETUP)





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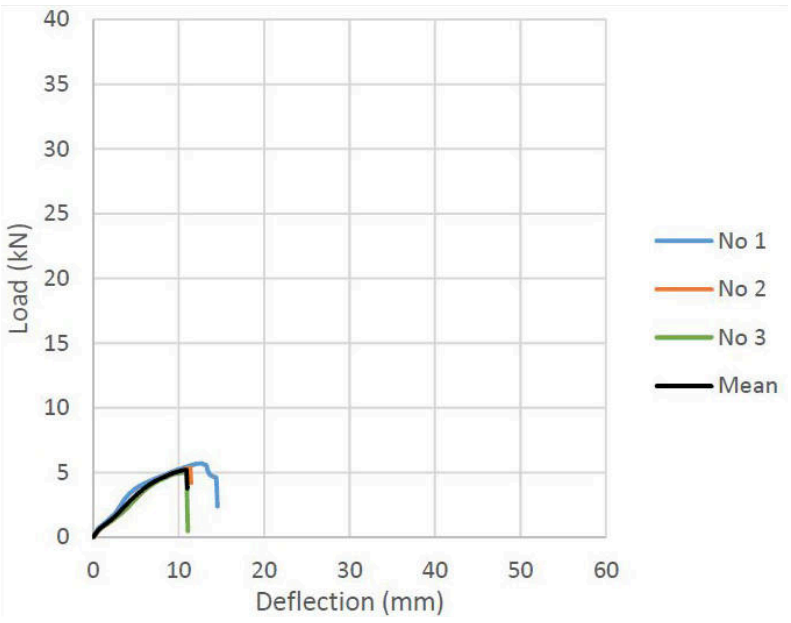


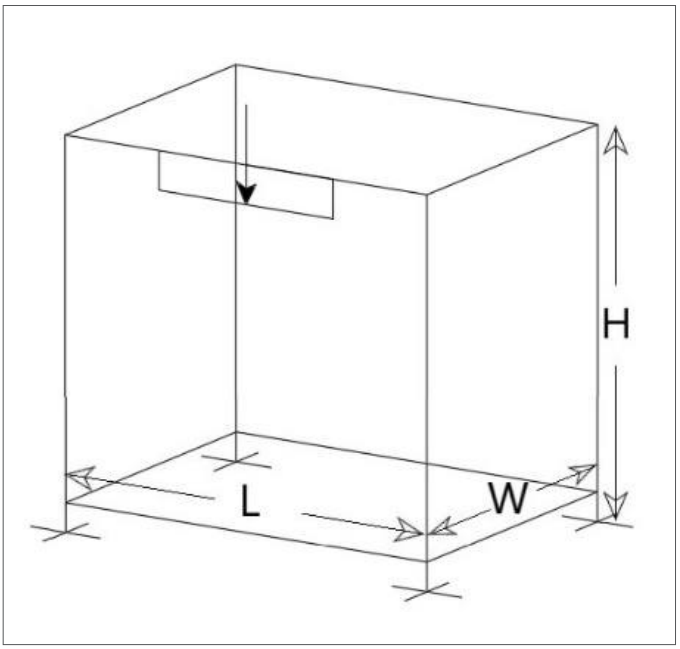
COMMENT

Total point load should not exceed 1.5kN
(150 kilograms / 337.2 Lbs).

TEST 6

Axial eccentric point load Double frame
Test 3 of 3
L = 612mm
H = 1225mm
W = 1225mm

PICTURE (TEST SETUP)



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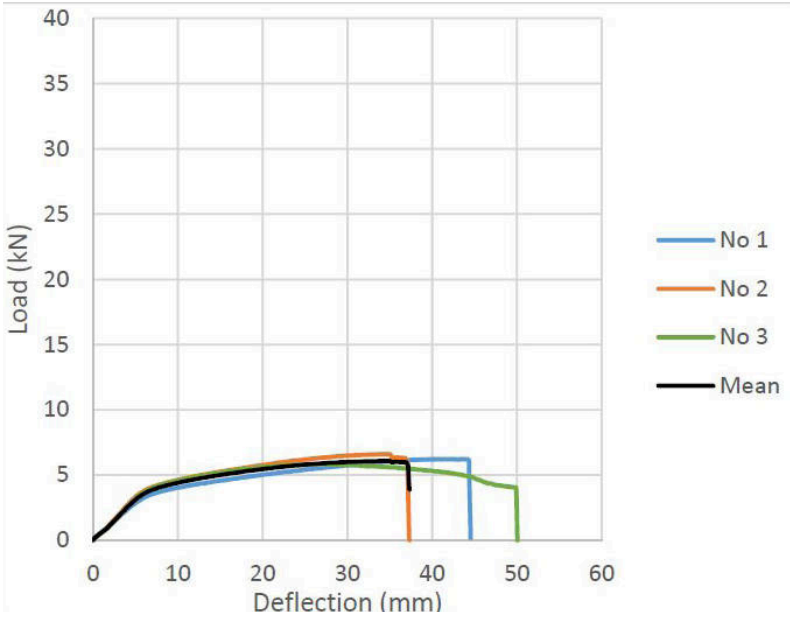


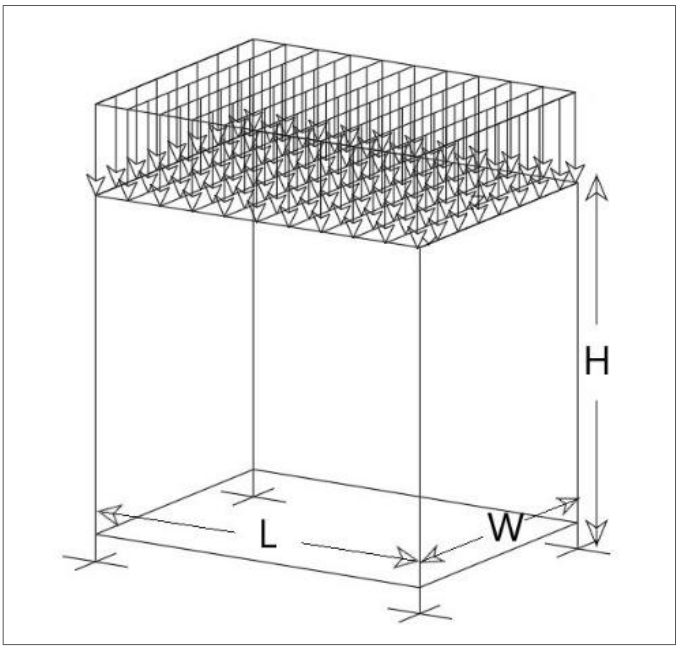
COMMENT

Total point load should not exceed 1.5kN
(150 kilograms / 337.2 Lbs).

TEST 7

Axial distributed load Double frame
Test 1 of 3
L = 367.5mm
H = 735 mm
W = 612 mm

PICTURE (TEST SETUP)



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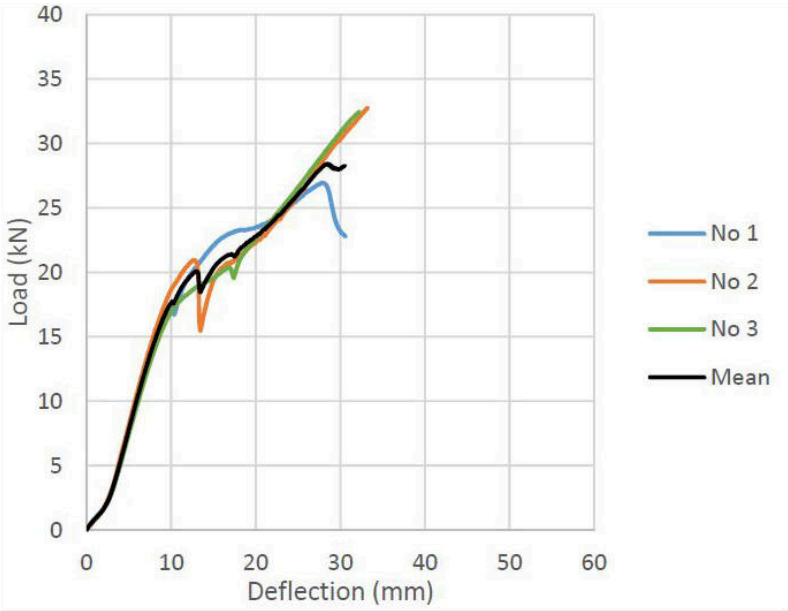


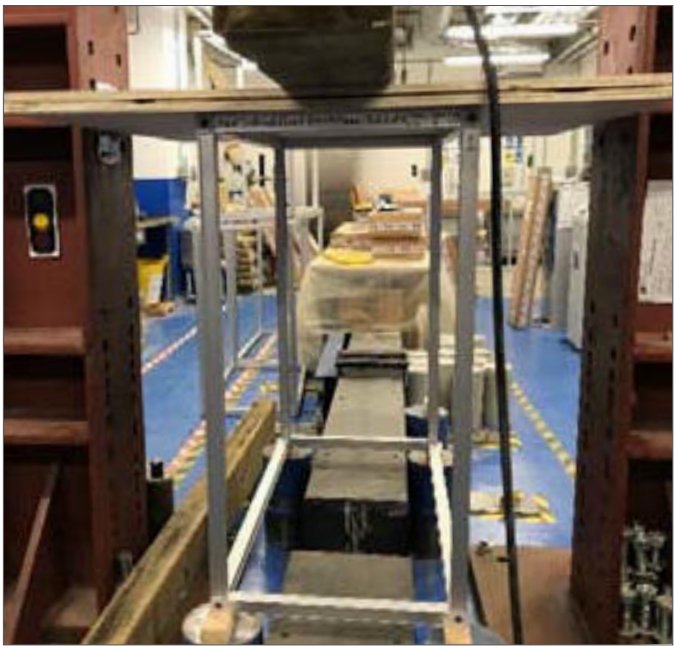
COMMENT

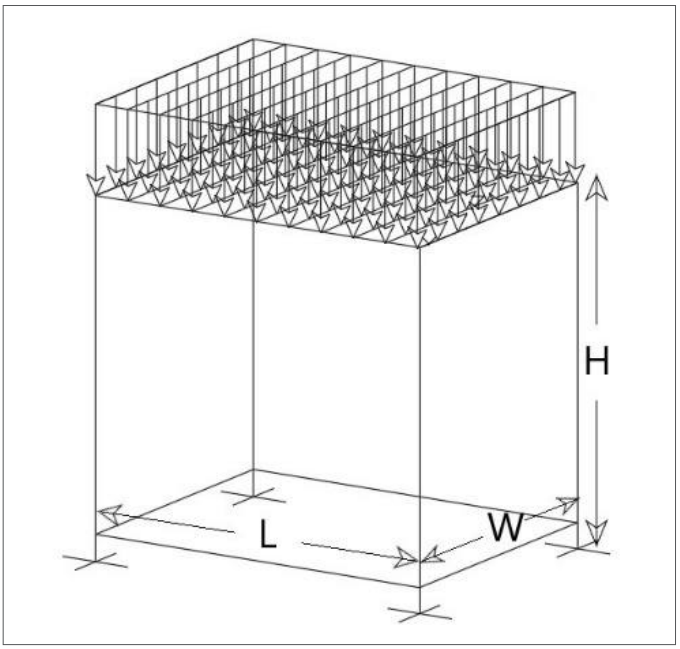
Total distributed load should not exceed 12kN
(1200 kilograms / 2697.7 Lbs).

TEST 8

Axial distributed load Double frame
Test 2 of 3
L = 490mm
H = 980 mm
W = 980 mm

PICTURE (TEST SETUP)





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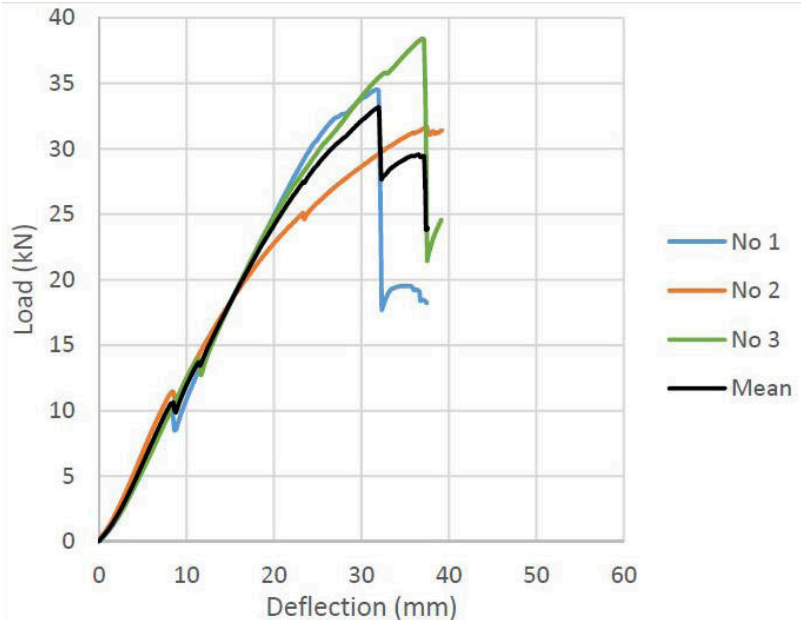


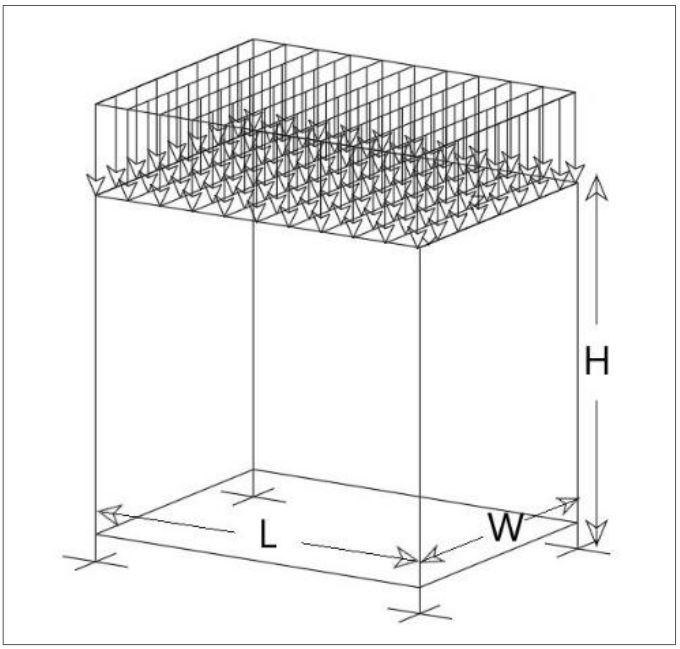
COMMENT

Total distributed load should not exceed 12kN
(1200 kilograms / 2697.7 Lbs).

TEST 9

Axial distributed load Double frame
Test 3 of 3
L = 612mm
H = 1225 mm
W = 1225 mm

PICTURE (TEST SETUP)



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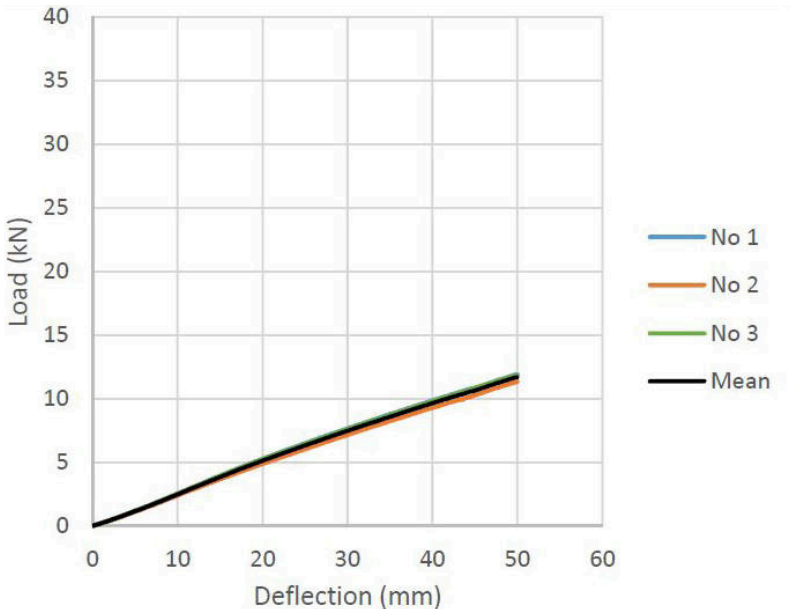


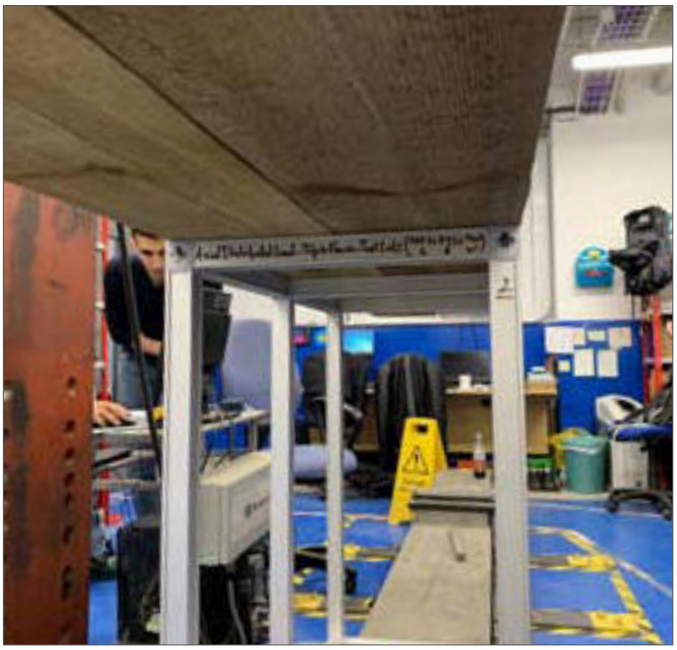
COMMENT

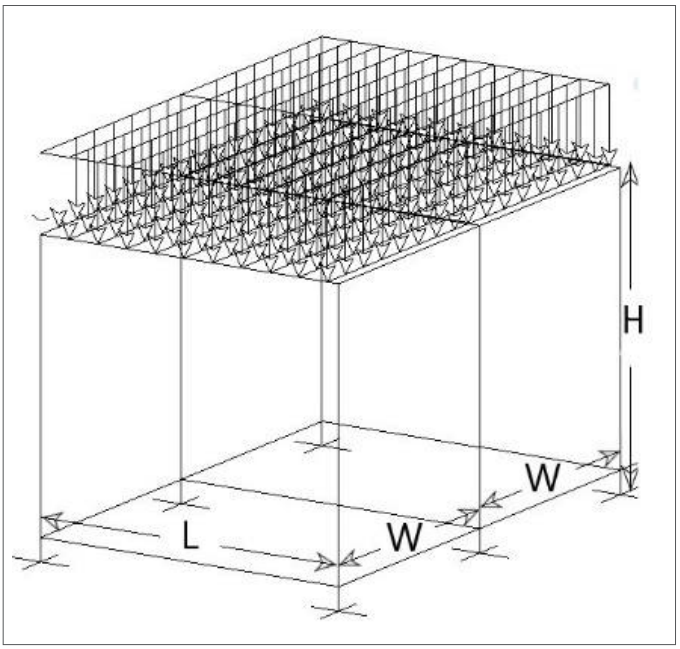
Total distributed load should not exceed 5kN
(500 kilograms / 1124 Lbs)

TEST 10

Axial distributed load Triple frame
Test 1 of 3
L = 367.5mm
H = 735 mm
W = 400 mm

PICTURE (TEST SETUP)





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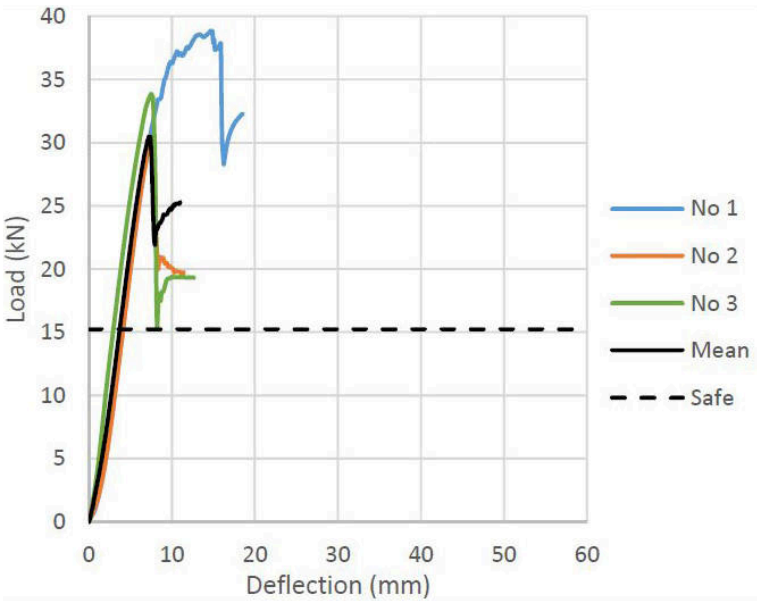


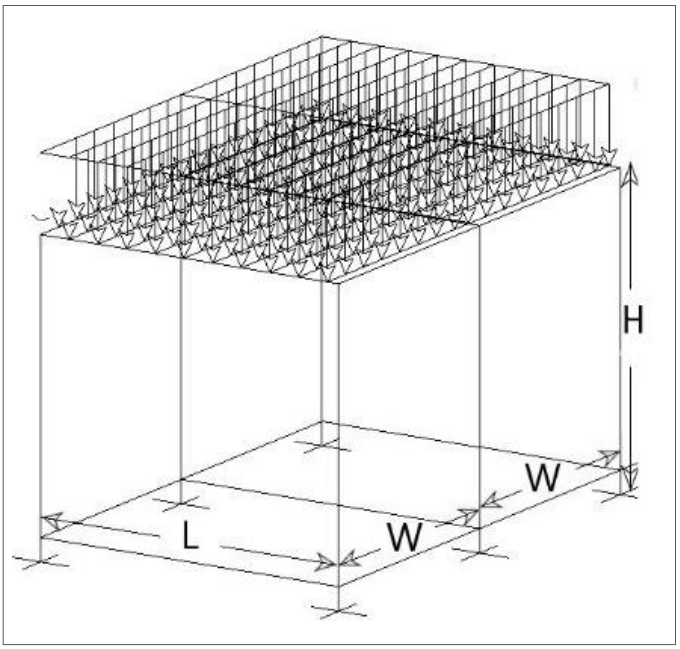
COMMENT

Total distributed load should not exceed 15kN
(1500 kilograms /3372 Lbs).

TEST 11

Axial distributed load Triple frame
Test 2 of 3
L = 490mm
H = 980 mm
W = 980 mm

PICTURE (TEST SETUP)



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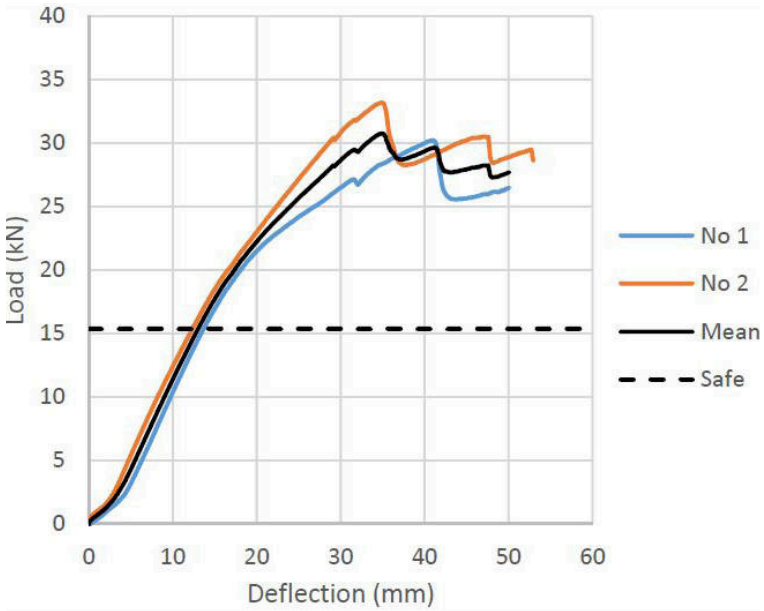


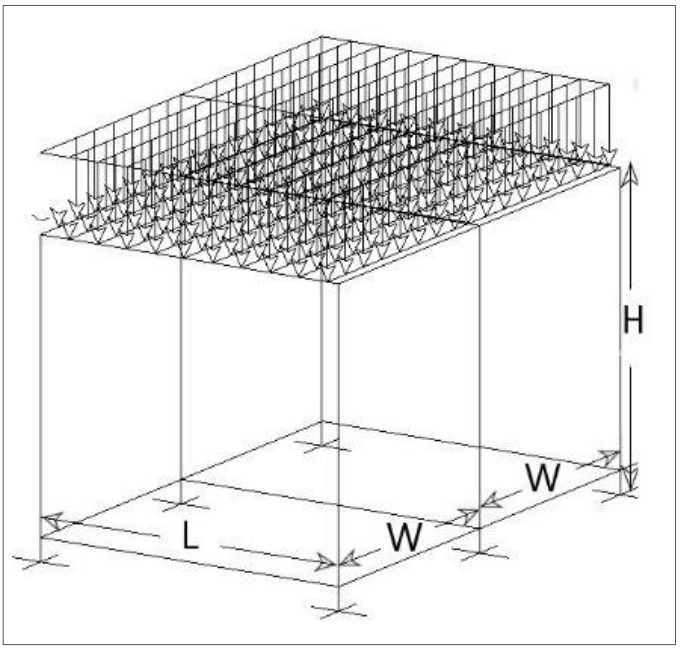
COMMENT

Total distributed load should not exceed 15kN
(1500 kilograms / 3372 Lbs).

TEST 12

Axial distributed load Triple frame
Test 3 of 3
L = 612mm
H = 1225 mm
W = 1225mm

PICTURE (TEST SETUP)



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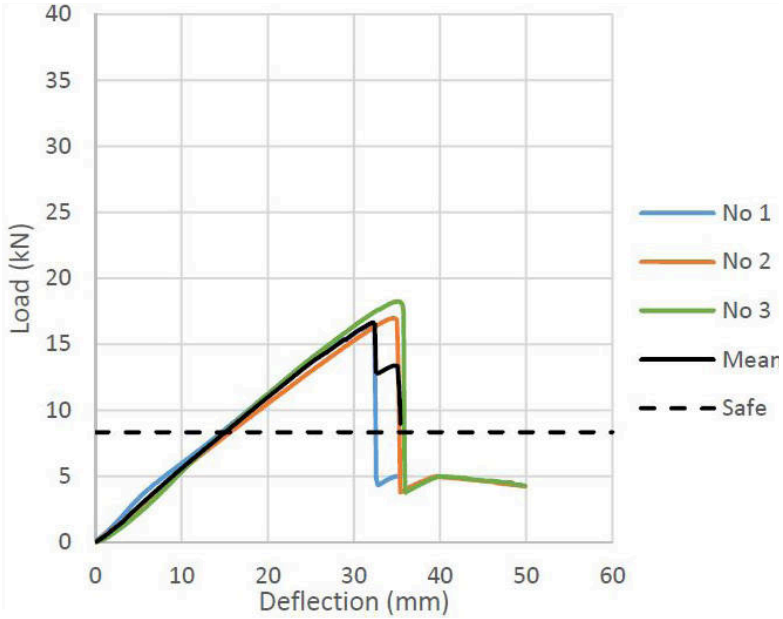


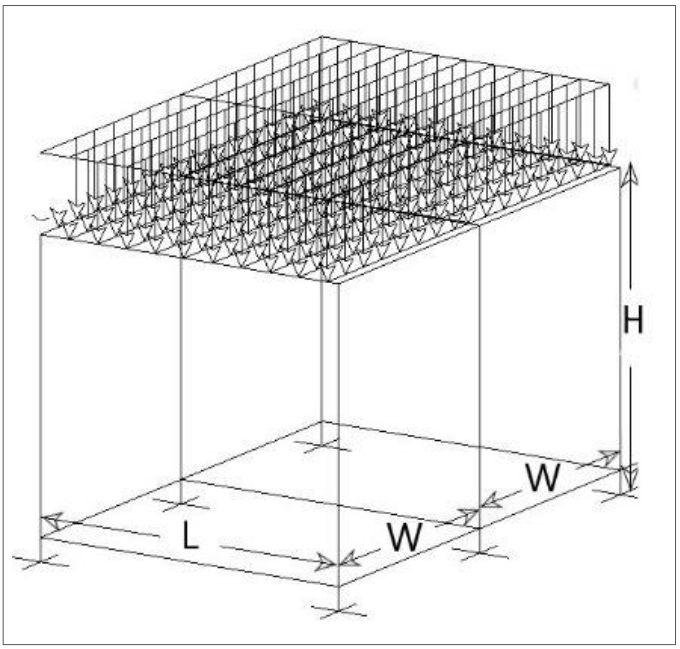
COMMENT

Total distributed load should not exceed 8kN
(800 kilograms / 1798.5 Lbs).

TEST 13

Axial line load Triple frame
Test 3 of 3
L = 500mm
H = 735 mm
W = 400 mm

PICTURE (TEST SETUP)



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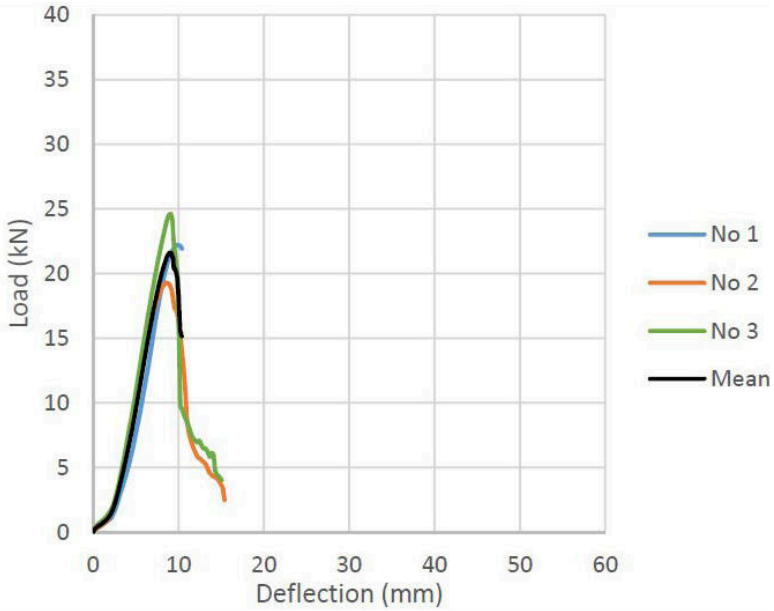


COMMENT

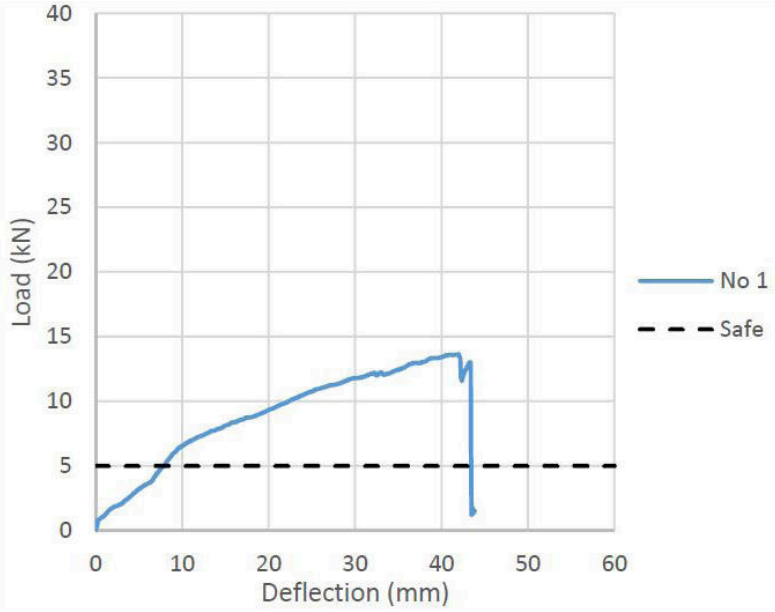
Total line load should not exceed 8kN
(800 kilograms / 1798.5 Lbs)
Supports/ horizontal members should be fixed to the ground.

TEST 14

Axial distributed load Double frame
Test 3 of 3
L = 612mm
H = 612 mm
W = 212 mm

PICTURE (TEST SETUP)

GRAPH

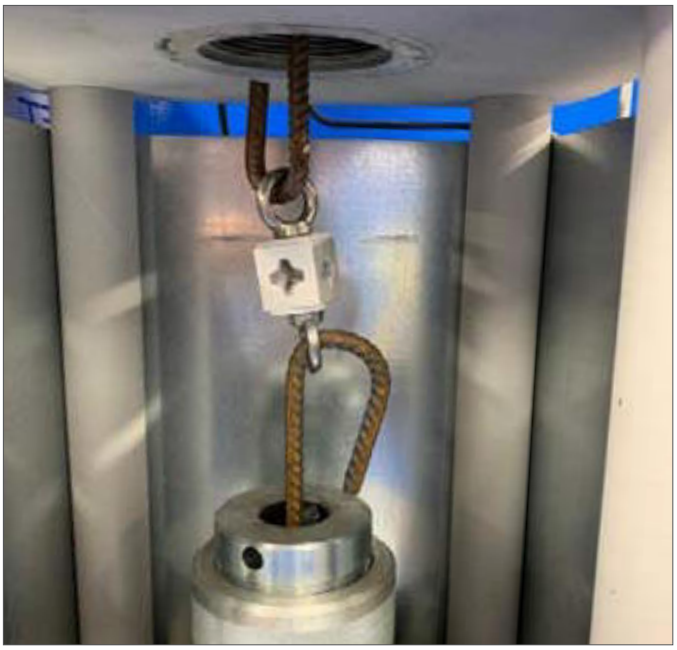


COMMENT

Total distributed load should not exceed 4kN
(400 kilograms / 899Lbs).
Frame should be placed directly on the ground.

TEST 15

PULLOUT TEST (M5)



Maximum pull out load for M5 connector should not exceed 0.5kN (50 kilograme / 112.4 Lbs).

PULLOUT TEST (M8)

COMMENT

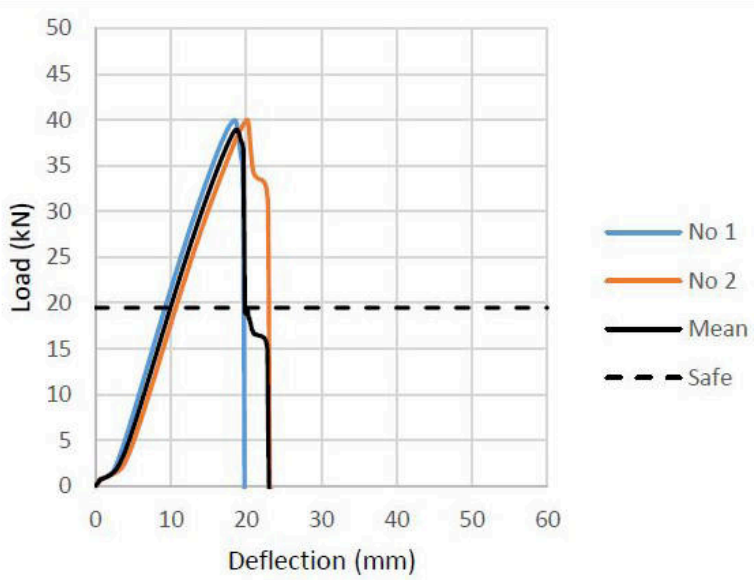
Maximum pull out load for M8 connector should not exceed 1kN (100 kilograme / 224.8 Lbs).

TEST 16

Axial distributed load Floor test No feet Test 1
L = 612 mm
H = 212 mm
W = 612 mm

PICTURE (TEST SETUP)

GRAPH



COMMENT

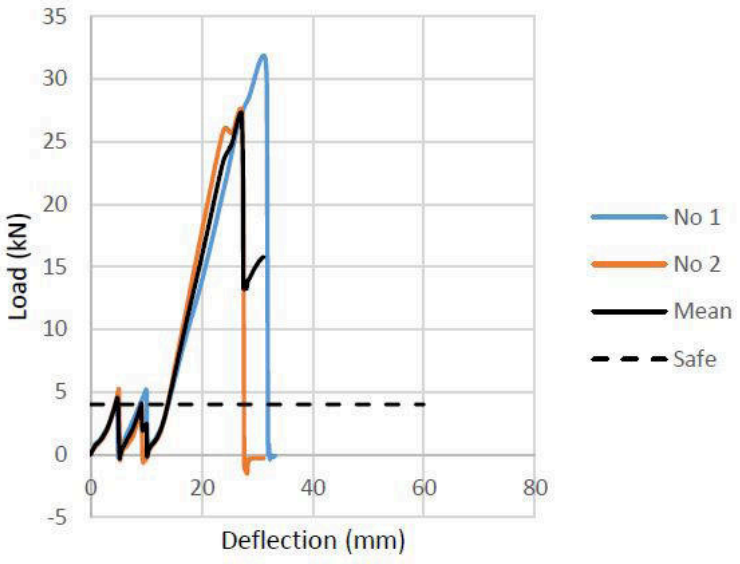
Initial failure occurs in joints. Total distributed load should not exceed 20 kN (2000 kilogrames / 4496 Lbs).

TEST 17

Axial distributed load Floor test Static M8 feet
Test 2
L = 612 mm
H = 212 mm
W = 612 mm

PICTURE (TEST SETUP)

GRAPH



COMMENT

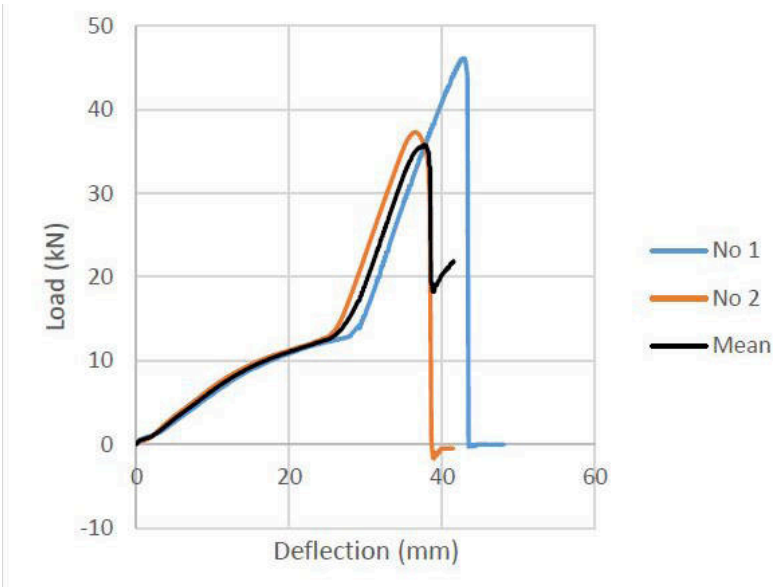
Initial failure occurs in feet. Total distributed load should not exceed 3 kN (300 kilogrames / 674.5 Lbs).

TEST 18

Axial distributed load Floor test Nutserts M8 feet
Test 3
L = 612 mm
H = 212 mm

PICTURE (TEST SETUP)

GRAPH



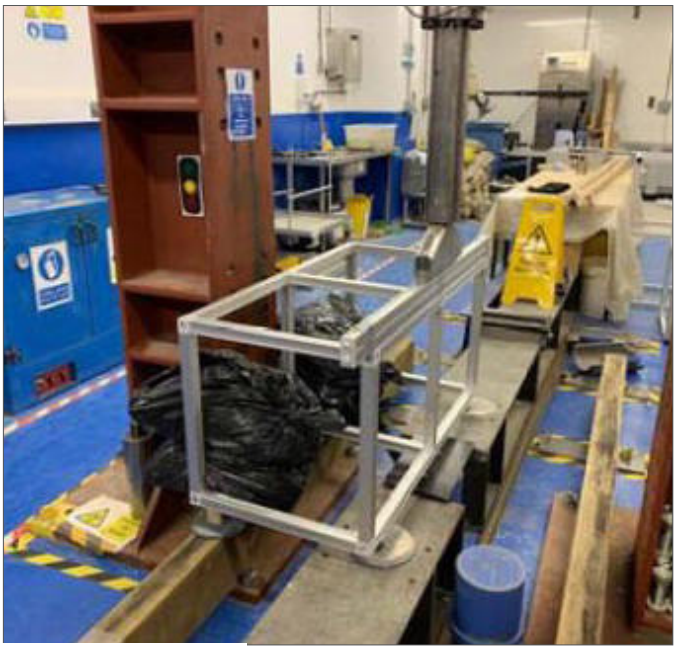
COMMENT

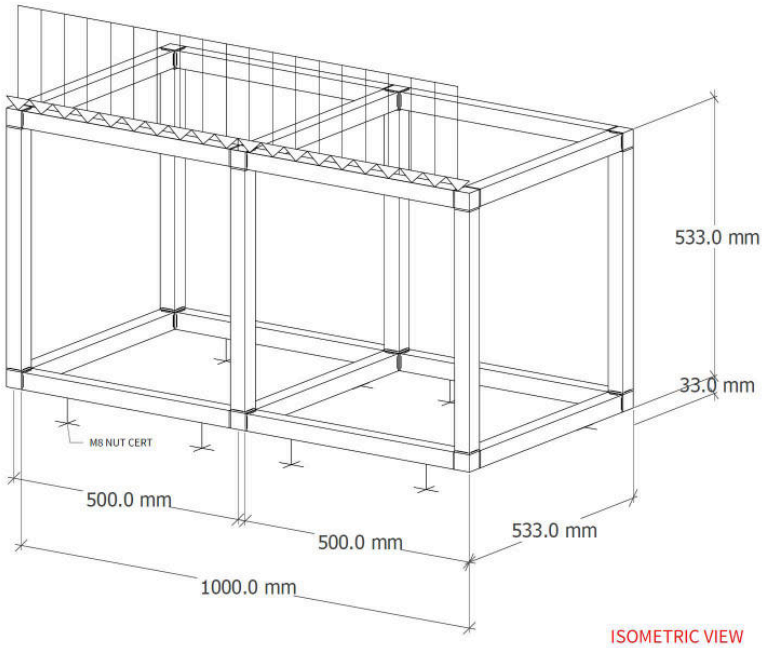
Initial failure occurs in Nutserts feet. Total distributed load should not exceed 6 kN (600 kilogrames / 1348.5 Lbs).

TEST 19

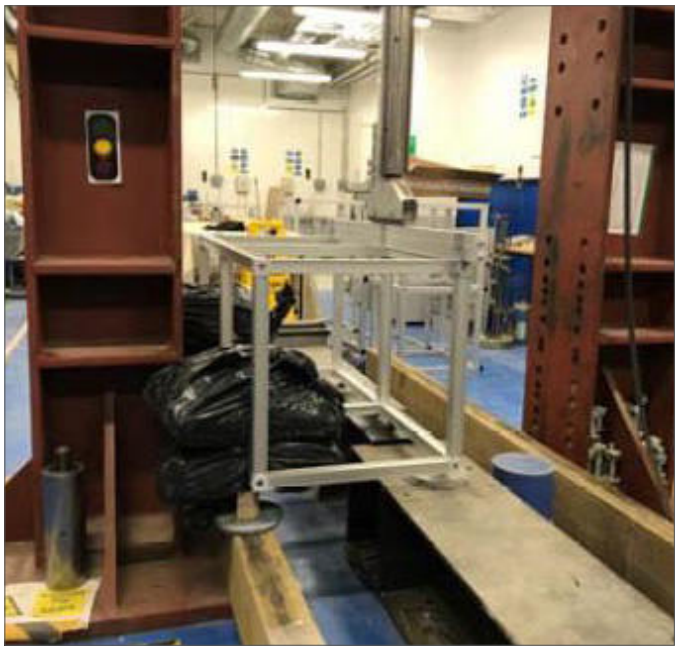
Axial Eccentric line load
Floor test Nutserts M8 feet
L = 500 mm
H = 500 mm
W = 500 mm

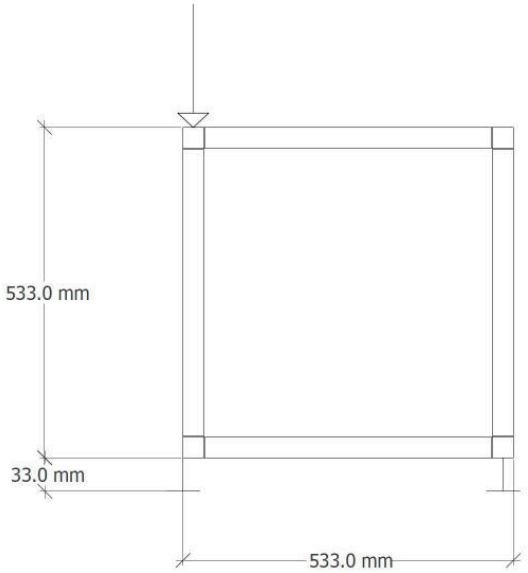
PICTURE (TEST SETUP)





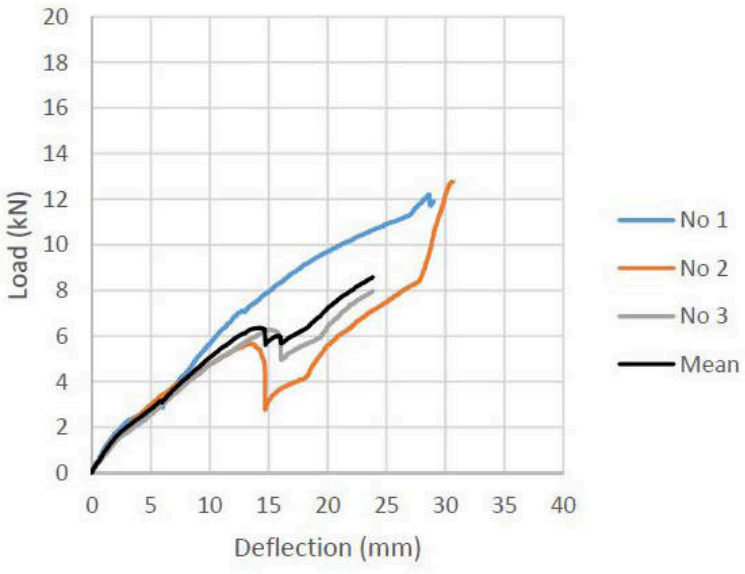
ISOMETRIC VIEW





SIDE VIEW

GRAPH



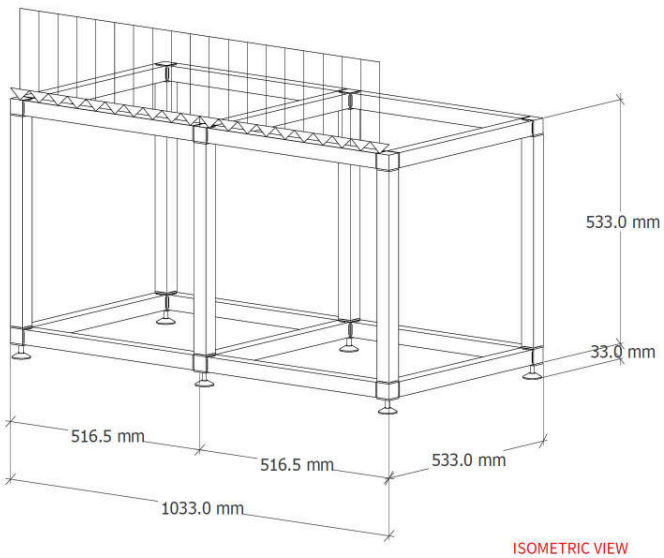
COMMENT

Failure initiated in the Nutsert members.
Recommended safe load is 1.5 kN (153 kilogrames / 337.5 Lbs).
Note: Lower members are loaded with 50 kg sandbags to prevent the rotation.

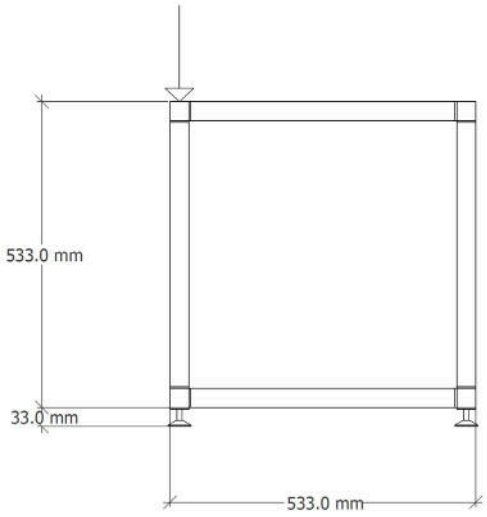
TEST 20

Axial Eccentric line load Floor test
Static M8 feet
L = 500 mm
H = 500 mm
W = 500 mm

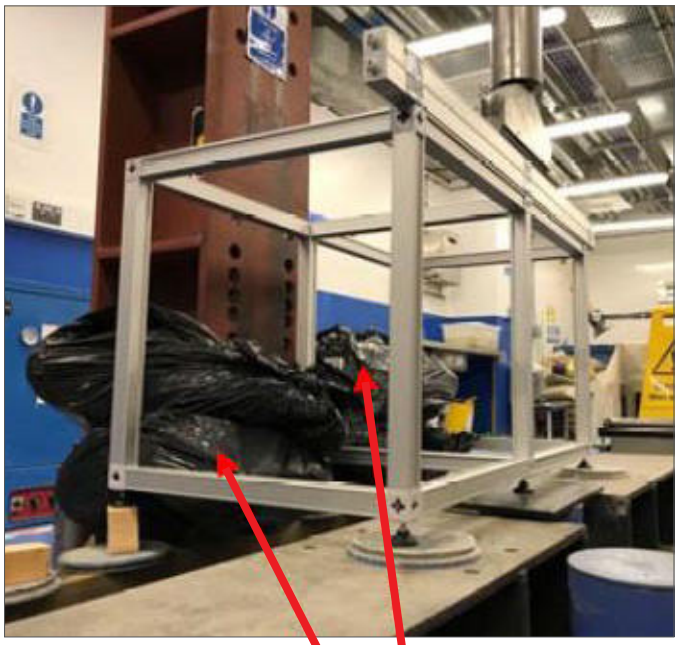
PICTURE (TEST SETUP)



ISOMETRIC VIEW



SIDE VIEW



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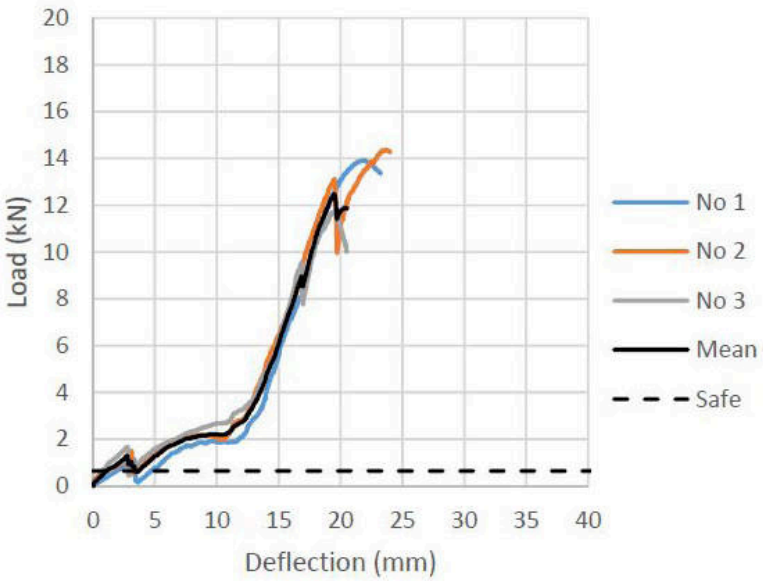

COMMENT

Failure initiated in the Static M8 feet. Recommended safe load is 0.5 kN (51 kilogrames / 112.5 Lbs).
Note: Lower members are loaded with 50 kg sandbags to prevent the rotation.