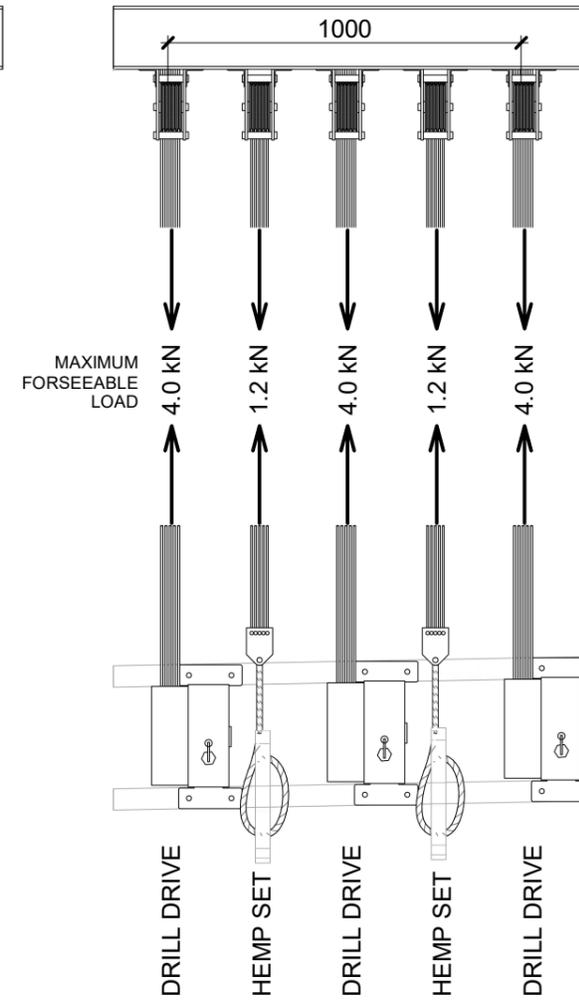


Line Load 1 Detail



Line Load 2 Detail

This drawing is design intent only, the Specialist Contractor is responsible for the final system design and construction drawings.

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Stagehouse

Overstage Rigging - Applied Structural Loads

Scale	Drawn	Checked
NTS @ A3	PSC	DAL

RIBA STAGE: 4

C1-	Issue For Tender	PSC	2024-02-02
P2-	Draft Issue For Tender	PSC	2023-12-01
P1-	Issue For Information	PSC	2023-11-17

PFH764-THP-XX-ZZ-DR-OT-015550

1 DROP PULLEY LOADS
3kN / m run (on pulley supporting structure)
 Hemp Set Drop Pulley Loads = (Hemp set Capacity + Rigging & Bar Weight) / No. Suspensions
 = ((1x2) + 0.2) / 5 = **0.44 kN**
 Drill Driver Drop Pulley Loads = Drill Driver Capacity + Rigging & Bar Weight) / No. Suspensions
 = (3.5 + 0.5) / 5 = **0.8 kN**
 Expected load = (Hemp Set Drop Pulley Loads / Set Spacing) + (Drill Driver Drop Pulley Loads / Set Spacing)
 = (0.44 / 0.5) + (0.8 / 0.5) = **2.48kN / m**
3.4 kN / m run to account for uneven loading

2 HEADER PULLEY / HOIST & CLEAT RAIL LOADS
10.4 kN / m run (on pulley supporting structure)
 Hemp Set Header Pulley Loads = Hemp set Capacity + Rigging & Bar Weight
 = 1 + 0.2 = **1.2 kN**
 Drill Driver Header Pulley Loads = Drill Driver Capacity + Rigging & Bar Weight
 = 3.5 + 0.5 = **4 kN**
 Expected load = (Hemp Set Header Pulley Loads / Set Spacing) + (Drill Driver Header Pulley Loads / Set Spacing)
 = (1.2 / 0.5) + (3.5 / 0.5) = **10.4 kN / m**

NOTE:
 TOTAL FORESEEABLE LOAD SUSPENDED ON RIGGING SYSTEM = **6500kg (APPROX)**

Drill Drive hoists self weight = **70kg** (Approx.) each (10 No. Total)

This diagram only shows the imposed loads from the new proposed rigging system. The loads presented here account for the potential future install of a horizontal double purchase clew system for the hemp sets. Future technical gallery loads and other building elements have not been considered.