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PROJECT NAME: TELKWA 62.20  
 BULKLEY RIVER CROSSING WIDENING OF 24.0m SPAN, TPG BRIDGE

JOB NUMBER: CNRAIL0802  
 PAGE NO: OF  
 DESIGNED BY: DGT  
 CHECKED BY:  
 DATE: 31-Dec-08  
 DATE:

TASK: (7.1) PILES  
 SUBTASK: (7.1.4.) PILE DRIVING F-LA

REFERENCES:

Preferred hammer: **BERMINGHAMMER B3505**  
 Energy Range: 46000 lb-feet 62 KNm  
 Type:  
 bpm 36-60  
 Striking Weight 4000 lb  
 Total length  
 Max Stroke: 11'-6"

Berminghammer  
 Sales Catalogue  
 model B3505

**PILE DRIVING F-LA:**

$$P = \frac{2 \times W \times H}{S + 0.1}$$

W= 4000 lbs  
 H= 6.5 feet  
 S= 0.22 in = 5.588 mm  
**P= 162500 lbs = 162.5 kips** 728.8125

Stroke(feet)	P (safe bearing capacity)		blows per foot (bpf)		Penetration at last 20 blows	
	At Abutment	At Abutment	At Abutment	At Abutment	At Abutment	At Abutment
Set-S (inch)	P (kips)	Set-S (inch)	P (kips)	bpf	inches	mm
6.5	0.22	162.5	-	54	4.4	111.76

B-3505 General Specifications  
 Performance  
 Ram Weight X Max. Stroke 46,000 ft•lb 62 kN•m  
 Impact energy 28,711 ft•lb 38.9 kN•m  
 Ram weight/mass 4,000 lb 1,800 kg  
 Maximum ram stroke 11.5 ft 3.5 m  
 Impact block weight/mass 802 lbs 364 kg  
 Blows per minute 36-60 36-60  
 Operating Weight  
 Total operating weight/mass 12,000 lb 5,442 kg  
 Weight of tool box 150 lb 68 kg  
 Total shipping weight/mass 12,150 lb 5,510 kg  
 Capacity  
 Fuel tank capacity 16 gal (U.S) 62 liters  
 Fuel consumption 1.4gal/hr. 5.3 liters/hr.  
 Oil tank capacity 1.9 gal (U.S) 7.3 liters  
 Oil consumption 0.16 gal/hr. 0.6 liters/hr.  
 Dimensional Specifications