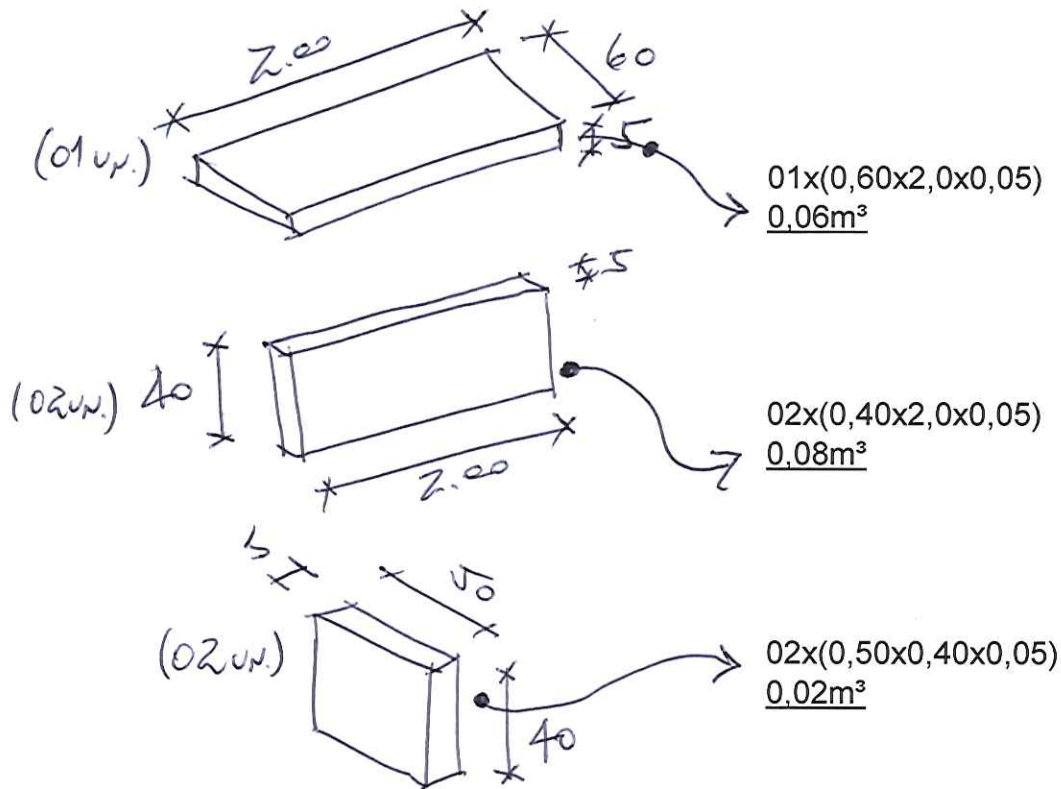


MEMÓRIA DE CÁLCULO

1. BANCO EM CONCRETO SEM ENCOSTO

1.1. Concreto



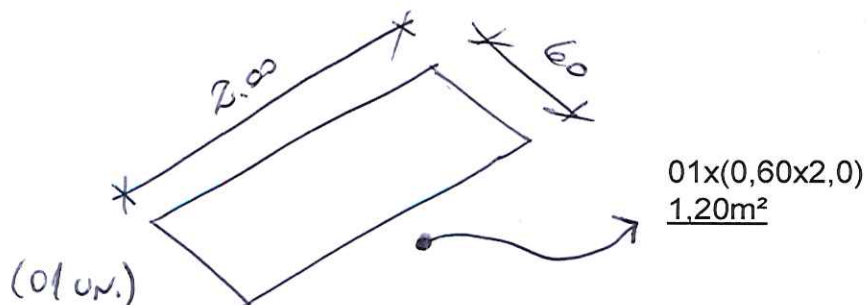
TOTAL= $0.06+0.08+0.02$
 0.16m^3

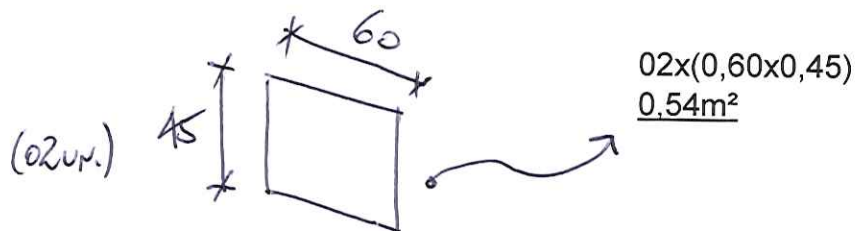
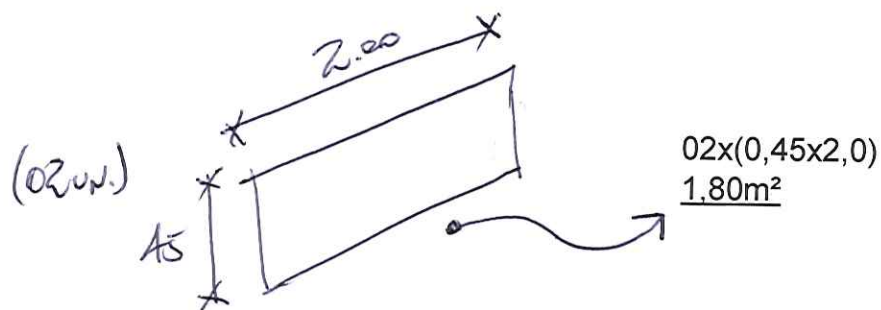
1.2. Aço

volume de concreto (0.16m^3) x estimativa (40kg/m^3)
 6.40kg

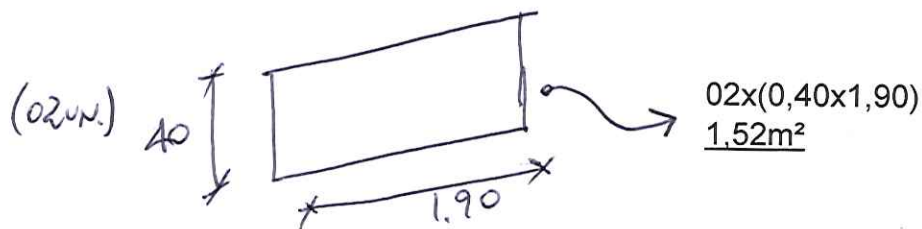
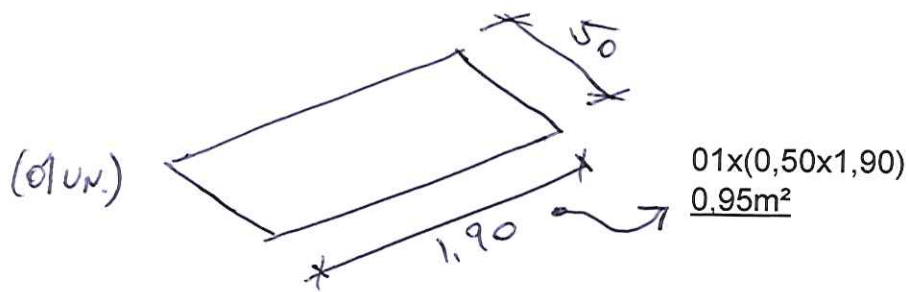
1.3. Formas

1.3.1. Externas





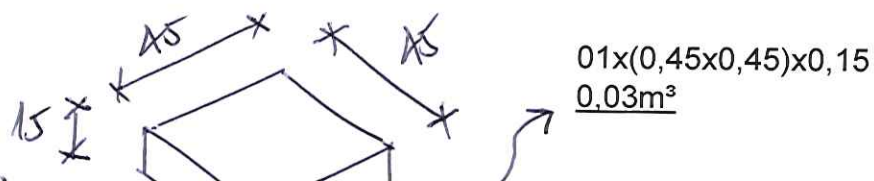
1.3.2. Internas

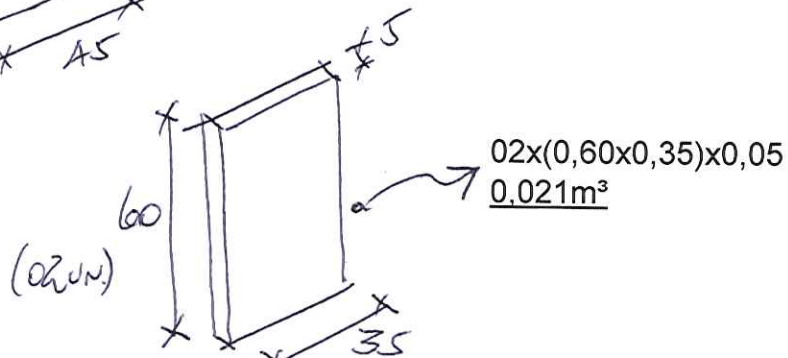
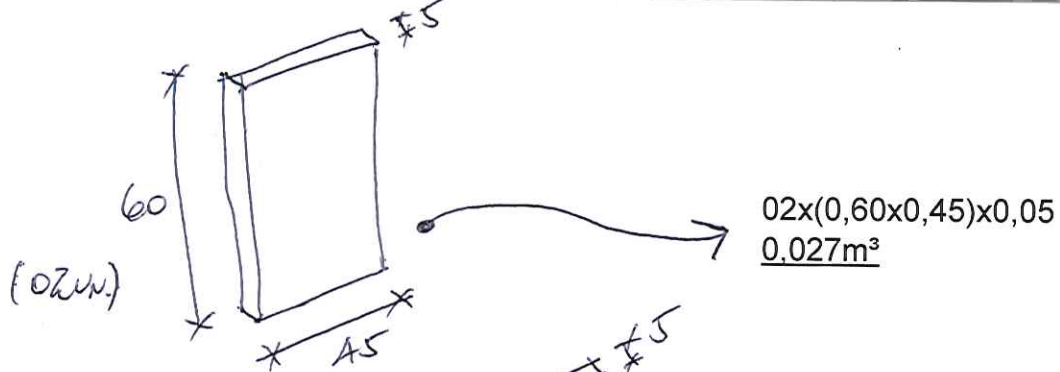


TOTAL(Externas+Internas)= 1,20+1,80+0,54+0,95+1,52+0,40
6,41m³

2. LIXEIRA EM CONCRETO

2.1. Concreto





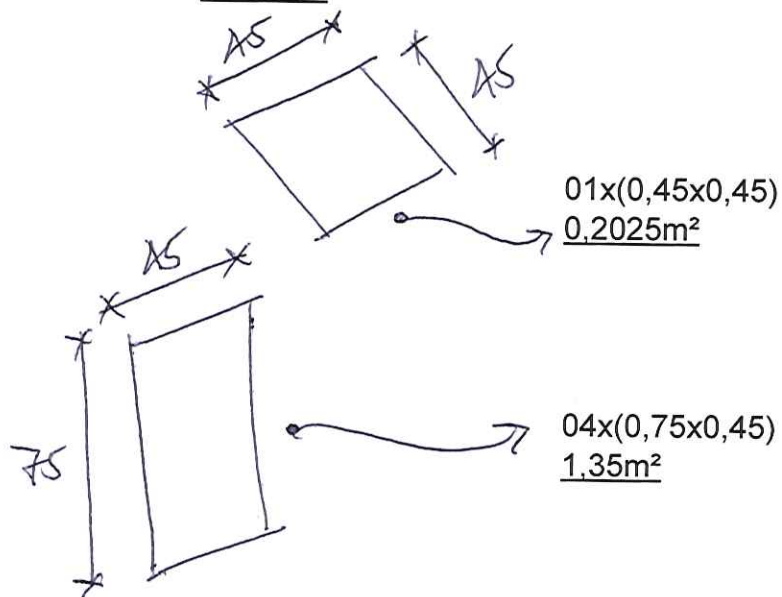
TOTAL = $0,03 + 0,027 + 0,021$
 $\underline{0,078\text{m}^3}$

2.2. Aço

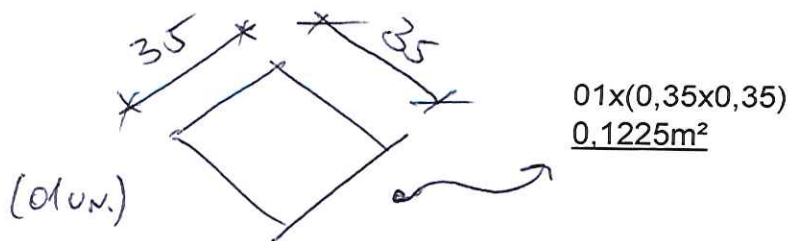
volume de concreto ($0,078\text{m}^3$) x estimativa (40kg/m^3)
 $\underline{3,12\text{kg}}$

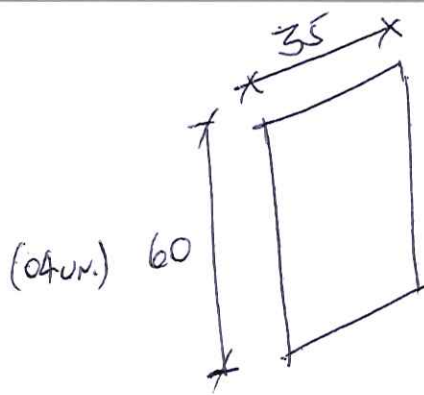
2.3. Formas

2.3.1. Externas



2.3.2. Internas





$$04 \times (0,60 \times 0,35) \\ \underline{0,84m^2}$$

$$\text{TOTAL(Externas+Internas)} = 0,2025 + 1,35 + 0,1225 + ,84 \\ \underline{2,515m^3}$$

3. ESTRUTURA PARA BASQUETE

3.1. Concreto

02 unidades x dimensões $(3,10 + 2,00 + 1,10)$ x secção $(0,2 \times 0,2)$
0,496m³

3.2. Aço

volume de concreto $(0,496m^3)$ x estimativa $(60kg/m^3)$
29,76kg

3.3. Formas

02 unidades x dimensões $(3,10 + 2,00 + 1,10)$ x soma das faces $(4 \times 0,20)$
9,92m²


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