

# Quad v1

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- Gravity **25.1 BLG**
- ABV **11.7 %**
- IBU **33**
- SRM **17.3**
- Style **Belgian Dark Strong Ale**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **10 %**
- Size with trub loss **11 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **13.8 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.6 liter(s) / kg**
- Mash size **12.6 liter(s)**
- Total mash volume **17.5 liter(s)**

## Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **12.6 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **6.1 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4.5 kg (84.7%)	81 %	4
Grain	Strzegom Monachijski typ II	0.2 kg (3.8%)	79 %	22
Grain	Special B Malt	0.1 kg (1.9%)	65.2 %	315
Grain	Caraaroma	0.05 kg (0.9%)	78 %	400
Sugar	Candi Sugar, Dark	0.066 kg (1.2%)	80 %	600
Sugar	Candi Sugar homemade clear	0.3 kg (5.6%)	100 %	2
Sugar	Candi sugar homemade amber	0.1 kg (1.9%)	100 %	150

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	13 %