Vermelho smash

- Gravity 12.6 BLG ABV 5.1 %
- IBU **30**
- SRM 3.8

Batch size

- Expected quantity of finished beer 38 liter(s)
- Trub loss 5 %
- Size with trub loss 41.8 liter(s)
- Boil time 60 min
- Evaporation rate 7 %/h
- Boil size 46.8 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 29.8 liter(s)
- Total mash volume 38.3 liter(s)

Steps

- Temp 67 C, Time 45 min
 Temp 72 C, Time 20 min
 Temp 76 C, Time 1 min

Mash step by step

- Heat up 29.8 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 45 min at 67C
- · Keep mash 20 min at 72C
- Keep mash 1 min at 76C
- Sparge using 25.5 liter(s) of 76C water or to achieve 46.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	8.5 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Vermelho	30 g	60 min	8.1 %
Aroma (end of boil)	Vermelho	40 g	20 min	8.1 %
Aroma (end of boil)	Vermelho	50 g	5 min	8.1 %
Dry Hop	Vermelho	80 g	3 day(s)	8.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	