SMaSH zula

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **39**
- SRM **3.3**

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14.7 liter(s)
- Total mash volume 18.9 liter(s)

Steps

- Temp 67 C, Time 60 minTemp 78 C, Time 5 min

Mash step by step

- Heat up 14.7 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 5 min at 78C
- Sparge using 14.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.2 kg (100%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	zula	35 g	60 min	8.3 %
Aroma (end of boil)	zula	35 g	5 min	8.3 %
Dry Hop	zula	30 g	3 day(s)	8.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
fm52	Ale	Slant	160200 ml	fm