NO. 17 Brown'ie

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **21**
- SRM 9.7
- Style Brown Porter

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.4 liter(s)
- Total mash volume 19.2 liter(s)

Steps

- Temp 65 C, Time 90 min
 Temp 70 C, Time 15 min
 Temp 77 C, Time 3 min

Mash step by step

- Heat up 14.4 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 90 min at 65C
- Keep mash 15 min at 70C
- Keep mash 3 min at 77C
- Sparge using 16.8 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	3.5 kg <i>(72.9%)</i>	80 %	7
Grain	Briess - Vienna Malt	1 kg (20.8%)	77.5 %	7
Grain	Brown Malt (British Chocolate)	0.15 kg <i>(3.1%)</i>	70 %	128
Grain	arome	0.1 kg <i>(2.1%)</i>	70 %	100
Grain	Black (Patent) Malt	0.05 kg <i>(1%)</i>	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lomik	50 g	45 min	4 %