Dubbel-tówka

- Gravity 17.3 BLG
- ABV 7.4 %
- IBU **17**
- SRM **25.3**
- Style Belgian Dubbel

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 70 min
- Evaporation rate 8 %/h
- Boil size 27.2 liter(s)

Mash information

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21.6 liter(s)
- Total mash volume 28.8 liter(s)

Steps

- Temp 45 C, Time 15 min
 Temp 52 C, Time 15 min
- Temp 65 C, Time 70 min
- Temp 72 C, Time 10 min
 Temp 78 C, Time 0 min

Mash step by step

- Heat up 21.6 liter(s) of strike water to 49.2C
- Add grains
- Keep mash 15 min at 45C
- Keep mash 15 min at 52C
- Keep mash 70 min at 65C
- Keep mash 10 min at 72C
- Keep mash 0 min at 78C
- Sparge using 12.8 liter(s) of 76C water or to achieve 27.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.2 kg <i>(54.5%)</i>	80 %	5
Grain	Monachijski Ciemny	1.5 kg <i>(19.5%)</i>	80 %	30
Grain	cooke, viking malt	0.6 kg <i>(7.8%)</i>	80 %	70
Grain	Caraaroma	0.4 kg (5.2%)	78 %	400
Sugar	Cukier kandyzowany, brązowy	0.5 kg (6.5%)	78.3 %	400
Grain	Karmelowy Jasny 30EBC	0.5 kg <i>(6.5%)</i>	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	40 g	60 min	4.5 %
Boil	Saaz (Czech Republic)	10 g	10 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 3522 Belgian Ardennes	Ale	Slant	500 ml	Wyeast Labs