American Stout

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **48**
- SRM **31.9**
- Style American Stout

Batch size

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 %
- Size with trub loss 20.9 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.1 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

Steps

- Temp 62 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 15.9 liter(s) of strike water to 69C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 10 min at 78C
- Sparge using 14.5 liter(s) of 76C water or to achieve 25.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(66%)</i>	80 %	5
Grain	Słód Caramunich Typ II Weyermann	0.6 kg (11.3%)	73 %	120
Grain	Chocolate Malt (UK)	0.6 kg (11.3%)	73 %	887
Grain	Żytni	0.6 kg <i>(11.3%)</i>	85 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	60 min	11.5 %
Whirlpool	Centennial	50 g	20 min	10.5 %
Dry Hop	Centennial	150 g	3 day(s)	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Dry	11 g	Danstar
Lallemand - Lalbrew London English-style		Dry	11 g	Lallemand

Extras

Туре	Name	Amount	Use for	Time
Water Agent	CaCl2	5 g	Mash	60 min
Water Agent	Lactic Acid	3 g	Mash	60 min
Fining	Whirlflock-T	2.5 g	Boil	10 min