takie ciemne

- Gravity 16.4 BLG
- ABV 6.9 %
- IBU 27
- SRM **34.7**
- Style **Sweet Stout**

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 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 18.9 liter(s)
- Total mash volume 24.3 liter(s)

Steps

- Temp **62 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp 76 C, Time 20 min

Mash step by step

- Heat up 18.9 liter(s) of strike water to 68C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 20 min at 76C
- Sparge using 11.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	viking golden ale	4.5 kg <i>(76.3%)</i>	80 %	10
Grain	karmelowy 300 Viking Malt	0.5 kg <i>(8.5%)</i>	70 %	300
Grain	czekoladowy ciemny Viking Malt	0.4 kg <i>(6.8%)</i>	80 %	1300
Sugar	laktoza	0.5 kg <i>(8.5%)</i>	100 %	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mandarina Bavaria	35 g	60 min	5.8 %
Aroma (end of boil)	Challenger	20 g	20 min	7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
- 71				

Fining	irish moss	5 g	Boil	10 min
Other	płatki dębowe	50 g	Secondary	