

## Długa noc 0,5

- Gravity **11.7 BLG**
- ABV ---
- IBU **20**
- SRM **34.4**
- Style **Dry Stout**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.3 liter(s)**
- Total mash volume **16.4 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **1 min**

### Mash step by step

- Heat up **12.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **1 min** at **76C**
- Sparge using **17.5 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.2 kg (78%)	85 %	7
Grain	Płatki pszeniczne	0.5 kg (12.2%)	85 %	3
Grain	Jęczmień palony	0.3 kg (7.3%)	55 %	985
Grain	Carafa II	0.1 kg (2.4%)	70 %	812

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	15 g	60 min	5.1 %
Boil	East Kent Goldings	10 g	20 min	5.1 %
Boil	Challenger	5 g	60 min	7 %
Boil	Challenger	3 g	20 min	7 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

### Notes

- Pierwsza warka - gotowiec z BA + chmiel Challenger. Zobaczmy co wyjdzie, za jakiś czas poprawka na własnym przepisie.

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