

PS2

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **31**
- SRM **27.6**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.1 liter(s)**
- Total mash volume **12.2 liter(s)**

Steps

- Temp **66 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **9.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **9.1 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (54.9%)	81 %	4
Grain	Biscuit Malt	0.15 kg (4.1%)	79 %	45
Grain	Płatki owsiane	0.5 kg (13.7%)	65 %	3
Grain	Strzegom Karmel 150	0.15 kg (4.1%)	75 %	150
Grain	Weyermann - Dehusked Carafo III	0.12 kg (3.3%)	70 %	1024
Sugar	Milk Sugar (Lactose)	0.2 kg (5.5%)	76.1 %	0
Grain	Strzegom Czekoladowy ciemny	0.12 kg (3.3%)	68 %	1200
Sugar	Xylitol	0.4 kg (11%)	90 %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	19 g	45 min	11 %