

American Stout v2

- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **36**
- SRM **41.5**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **27.6 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.4 liter(s) / kg**
- Mash size **17 liter(s)**
- Total mash volume **24.1 liter(s)**

Steps

- Temp **66 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **17 liter(s)** of strike water to **75.6C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	5 kg (70.4%)	85 %	7
Grain	Strzegom Czekoladowy ciemny	0.5 kg (7%)	68 %	1200
Grain	Jęczmień palony	0.2 kg (2.8%)	55 %	985
Grain	Płatki jęczmienne	0.4 kg (5.6%)	60 %	4
Grain	Słód Caramunich Typ II Weyermann	0.5 kg (7%)	73 %	120
Grain	Strzegom Karmel 150	0.5 kg (7%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Azacca	30 g	45 min	14 %
Aroma (end of boil)	Equinox	15 g	0 min	13.1 %
Dry Hop	Equinox	15 g	5 day(s)	13.1 %
Dry Hop	Cascade	30 g	5 day(s)	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	23 g	---