

American Extra Stout

- Gravity **16.8 BLG**
- ABV ---
- IBU **52**
- SRM **44.2**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **20 %/h**
- Boil size **32.4 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **30.1 liter(s)**
- Total mash volume **38.7 liter(s)**

Steps

- Temp **67 C**, Time **75 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **30.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **10.9 liter(s)** of **76C** water or to achieve **32.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------------|---------------|-------|------|
| Grain | Strzegom Pale Ale | 5 kg (58.1%) | 79 % | 6 |
| Grain | Monachijski | 1 kg (11.6%) | 80 % | 15 |
| Grain | Płatki owsiane | 1 kg (11.6%) | 85 % | 3 |
| Grain | Słód Carafa® Special typ I | 0.6 kg (7%) | 65 % | 900 |
| Grain | Strzegom Karmel 150 | 0.5 kg (5.8%) | 75 % | 150 |
| Grain | Jęczmień palony | 0.5 kg (5.8%) | 55 % | 1000 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil | Magnum | 45 g | 60 min | 11.5 % |
| Boil | Cascade | 25 g | 30 min | 6 % |
| Boil | Centennial | 25 g | 1 min | 10.5 % |
| Dry Hop | Cascade | 30 g | 5 day(s) | 6 % |
| Dry Hop | Centennial | 25 g | 5 day(s) | 10.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-------|--------|-----------|
| Safale US-05 | Ale | Slant | 150 ml | Fermentis |
|--------------|-----|-------|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 7 g | Boil | 15 min |